CK-2027	CHEHALIS 30.8km	2014 Inspection

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CBR Data		Updated Data	
Latitude	Longitude	Latitude	Longitude
49°27'8.1"	-122°1'29.4"	°0'0"	-122°1'29.4"
		HD Diff. (m) 5504999.3	Accuracy (m)
Road Name	CHEHALIS	Chehalis	
User km	30.8		
Current Load Rating (tonnes)		30 tonnes	
Structure Class	Temporary Bridge	Temporary Bridge	
Portable	N	N	
Superstructure	Steel Truss/Bailey/Acrow	Steel Truss/Bailey/Acrow	
Deck Type	Timber - Untreated	Timber – Untreated	
Abutment Left	Concrete Precast	Concrete Precast	
Abutment Right	Concrete Precast	Concrete Precast	
Spans	1	1	
Total Length (m)	28.6		
Deck Width (m)	4.5	4.3	

Inspection

Date of Inspection 2014-09-09 1:49:48 PM

Inspector Name Tyson Miller

Inspection Company MFLNRO

Inspection Comments

P.Eng Comments

This install was originally designed for a very short period (180 cycles of L60 logging truck loads) in 2008 and consequently supposed to be removed following the hauling. The installation did not follow the design concept resulting in a number of short term repairs in order to meet the L60 (54 tonnes) load rating. Due to the condition of the bearing reduce the load rating to 30 tonnes. Remove and replace both the acrow and the log stringer superstructures. Update load rating sign.

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA T.W. MILLER P.Eng Seal # 35995

Dec 5/2014

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Approach

Alignment	Fair	HC both approaches
Bridge Ahead Signs Missing	• 0 ○ 1 ○ 2	
Brushing Required	Y	
Delineator Missing Left	• 0 ○ 1 ○ 2	
Delineator Missing Right	• 0 ○ 1 ○ 2	
Fender Condition	Fair	
Posted Load Rating	68	
Road Surface	Fair	

Abutment

Log/Timber Cribs	Fair	fair to poor and only for fill retention
Tie Backs	Fair	
Bin Wall	N/A	
Concrete	Fair	old CIP that log crib sits on
Caps or Sills	Fair	4 precast pads
Piles or Posts	N/A	
Ballast Wall	Fair	2 steel girders bolted together - left upstream leaning streamside
Wing Wall	N/A	
Bracing	Fair	
Hardware	Fair	
Fill	Fair	needs to monitored with log crib condition
Riprap	N/A	
Bearings	poor	end posts are sitting on 2 x 4 shims which are crushed and settling, a note in file indicates a crack in 1 of the concrete pads

Corrosion Protection	N/A	

Deck

Running Surface	N/A	
Running Planks	Fair	herring bone
Sub Deck	Fair	
Ties	Fair	100mm x 300mm on random centers
Nails	Fair	
Deck to Girder Bolts	N/A	
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	Fair	
Gravel Depth (mm)		

Steel/Concrete

Girders	Fair	9 panel Acrow - double single reinforced chords
Diaphragms	N/A	
Bracing	Fair	
Under Trussing	Fair	
Hardware	Fair	only few missing clips and non- centred pins
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)	Comment

Hazards

Estimated Present Water Level Depth (m)	2.0	High Water ☐	Debris ☒
Estimated Present Water Level Width (m)	10.	Aggradation ☐	Scour ☐
Estimated High Water Level Clearance (m)	1.0	Ice ☐	

Comments

Repairs and Monitoring

Repair Item	Priority	Repair Description
1		
2		
3		

Monitor Item	Monitor Description	Monitoring Frequency
1	log stringers for failure	Anually
2		
3		

Sketch
(Select Signature)

FileName CBR iPad Offline Ver 0.17

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Approach from Left Bank when facing downstream

Approach from Right Bank when facing downstream

Approach from Left Bank when facing downstream

Approach from Right Bank when facing downstream

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Right Bank Abutment when facing downstream - old crib retaining fill

Left Bank Abutment when facing downstream - old crib retaining fill

old log stringers underneath

Upstream Profile