CK-2021	CHEHALIS 10.6km	2017 Inspection

CBR iPad Offline Ver 0.26

CBR Data

Latitude	Longitude
49°19'28.3"	-121°59'10.8"

Crossing Name	Boulder Creek
FSR #	8241
Branch #	1
Road Name	CHEHALIS
User km	10.6
Current Load Rating (tonnes)	136
Structure Class	Permanent Bridge
Portable	N
Superstructure	Steel I-beam
Deck Type	Concrete Composite
Abutment Left	Concrete Cast in Place
Abutment Right	Steel Pipe and Precast Pad
Spans	1
Total Length (m)	21.6
Deck Width (m)	4.9

Updated Data

Latitude	Longitude
49°19'28.42"	-121°59'12.8"

HD Diff. (m)	40.5	Accuracy (m)	5
	10.4		

Inspection

Date of Inspection	2017-06-21 8:56:03 AM	Recommended Next Inspection Year	2018
Inspector Name	Tyson Miller	Inspection Company	MFLNRO

Inspector Comments

P.Eng Comments

Replace the upstream right approach fender log and missing delineator. Monitor the vertical crack noted at the left bank abutment, under the upstream girder and the riprap scour noted at the right bank abutment. Present load rating of L150 or 136 tonnes to continue.

P.Eng Seal

Approach

Alignment	Fair	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	Fair	Logs and rocks - upstream right bank fender log has been pushed off the road
Posted Load Rating	136090	
Road Surface	Good	

Abutment

Log/Timber Cribs		
Tie Backs		
Bin Wall		
Concrete	Fair	Old CIP on left bank has vertical crack extending top to bottom
Caps or Sills	Fair	
Piles or Posts	Fair	Only at right bank
Ballast Wall	Good	
Wing Wall	Good	Downstream right bank
Bracing	Fair	
Hardware	Fair	
Fill	Fair	
Riprap	Fair	Not well graded and tied together at right bank, scour noted here aswell
Bearings	Fair	
Corrosion Protection	Fair	

Deck

Running Surface	Good	
Running Planks		
Sub Deck		
Ties		
Nails		
Deck to Girder Bolts		
Concrete Deck	Fair	Some wear noted on wheel path
Grout Pockets	Good	
Deck Joints	Fair	
Steel Deck Plate		
Gravel Surface		
Curb Rail/Blocks/Posts	Fair	
Hand Rails/Walkouts		
Hardware		
Overall Deck Condition	Fair	
Gravel Depth (mm)		

Steel/Concrete

Serial/ID Plate

Girders	Fair	Light corrosion
Diaphragms	Fair	2 internal, none at bearing locations
Bracing	Fair	
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

Hazards

Estimated Present Water Level Depth (m)	0.7	High Water ☐	Debris ☐
Estimated Present Water Level Width (m)	10.0	Aggradation ☐	Scour ☐
Estimated High Water Level Clearance (m)	3.0	Ice ☐	

Comments

Repairs and Monitoring

Repair Item	Priority	Repair Description
1	Low	Replace 1 left hand delineator at left approach
2	Medium	Replace missing fender at upstream right approach
3		

Item	Monitor Description	Frequency
1	Crack in left bank CIP	Anually
2	Scour on right bank abutment	Anually
3		

Sketch
(Select Signature)

CK-2021 CHEHALIS 10.6km 2017 Inspection

Approach from Left Bank when facing downstream

Recent damage to rail but still functional

Deck

Looking upstream from deck

CK-2021 CHEHALIS 10.6km 2017 Inspection

Looking downstream from deck

Left Bank Abutment when facing downstream

Approach from Right Bank when facing downstream

Missing fender at upstream right approach

Right Bank Abutment when facing downstream

Hole in bottom of CIP, right under girder (upstream left bank)

Superstructure

Vertical crack in CIP, under upstream girder left bank