CK-2552
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PURCELL 3.6km

2022 Inspection

CBR iPad Offline Ver 0.36

CBR Data

Latitude	Longitude
49°45'9.6"	-122°6'5.9"

Site Status	Active
Insp. Status	Inspect
Crossing Name	Unknown
FSR #	11024
Branch #	1
Road Name	PURCELL
User km	7.2
Previous Load Rating (tonnes)	68
Structure Class	Temporary Bridge
Portable	N
Superstructure	Log Stringers
Deck Type	Gravel
Abutment Left	Sill -Temporary Materials
Abutment Right	Sill -Temporary Materials
Spans	1
Total Length (m)	9.5
Deck Width (m)	5.1

Updated Data

Latitude	Longitude
49°45'11.13"	-122°6'7.06"

HD Diff. (m)	52.6	Accuracy (m)	7

3.6km

L75 or 68 tonnes

Inspection

Date of Inspection	2022-11-01 10:10:26 AM
Inspector Name	Cameron VandenBrink, EIT
Recommended Next Inspection Year	2023
Inspection Company	Chartwell Resource Group Ltd

Inspector Comments Serial/ID Plate

Appears structure plugged, and released prior to failing. Rock in lashing of needle beam. Deposited Material remains upstream left and downstream right

P.Eng Comments

The needle beam is not tight to all stringers and ineffective. Limit loading to L75 or 68 tonnes and post load rating signs. In order to increase the load limit I recommend re-lashing a larger needle beam to all stringers and structural guard log, ensuring effective shims are installed between the needle beam and stringers. Contact the Coast Engineering Group for further clarification and requirements if this option is requested.
Brush approaches and post bridge ahead signs. There appears to be very little freeboard between the bottom of the needlebeam and stream channel elevation. Monitor the aggradation within the stream channel. Monitor riprap condition.

PERMIT TO PRACTICE: 1003022

Approach

Alignment	Good	
Bridge Ahead Signs Missing	• 0 ○ 1 ○ 2	Left approach missing hardware
Brushing Required	Y	
Delineator Missing Left	• 0 ○ 1 ○ 2	
Delineator Missing Right	• 0 ○ 1 ○ 2	Downstream requires re attachment to end of curb log
Fender Condition	Good	
Posted Load Rating		Not posted
Road Surface	Good	Surface is good beneath vegetation growing out of running surface

Abutment

Log/Timber Cribs		
Tie Backs	Good	Mudsills
Bin Wall		
Pier		
Concrete		
Caps or Sills	Good	Single sill logs, wit mud sills on both abutments
Piles or Posts		
Ballast Wall		
Wing Wall		
Bracing		
Hardware	Good	
Fill	Good	
Riprap	Fair	Oversteepened . Upstream left and downstream right riprap covered deposited material monitor downstream left riprap.
Bearings	Good	
Corrosion Protection		

Deck

Running Surface	Poor	Surface is good beneath vegetation growing out of running surface
Running Planks		
Sub Deck		
Ties		
Nails		
Deck to Girder Bolts		
Concrete Deck		
Grout Pockets		
Deck Joints		
Steel Deck Plate		
Gravel Surface	Good	Good condition beneath vegetation
Curb Rail/Blocks/Posts	Good	
Hand Rails/Walkouts		
Hardware	Good	
Overall Deck Condition	Good	
Gravel Depth (mm)	500	
Pier Deck		

Steel/Concrete

Girders	
Diaphragms	
Bracing	
Under Trussing	
Hardware	
Welded/grouted shear connectors	

Log

Log Curbs	Good	Lashed 2 locations
Needle Beam	Fair	
Needle Lashing/ Shimming	Fair	Needle beam not lashed to all stringers. Shims loose. Ineffective

Needle Beam to Crib (m) 4.2

Needle Diameter (mm) 450

Stringer Number	Species	Peeled	Diameter (mm)	Rot Depth (mm)	Condition	Comment
1	Fd	Y	560	10	Good	All stringers in good condition. Drilled
2	Fd	Y	540	12	Good	
3	Fd	Y	510	10	Good	
4	Fd	Y	520		Good	
5	Fd	Y	500		Good	
6	Fd	Y	510	5	Good	
7	Fd	Y	560		Good	
8	Fd	Y	510		Good	
9	Fd	Y	510		Good	
10	Fd	Y	510	10	Good	
11	Fd	Y	510		Good	
12	Fd	Y	490		Good	
13	Fd	Y	490	10	Good	

Hazards

Estimated Present Water Level Depth (m)	.1	High Water	☐	Debris	☐
Estimated Present Water Level Width (m)	5	Aggradation	☒	Scour	☐
Estimated High Water Level Clearance	.1	Ic	☐		

Comments Needle beam loose and can be moved by hand.

Repairs and Monitoring

	Repair Item	Repair Description
1	Approach. Bridge Ahead Signs. # of signs. Priority:Low	Install hardware and post load rating
2	Approach. Brush. Priority: Medium	Brush approaches
3		
4		
5		
6		
7		

Item	Monitor Description	Frequency
1	Aggradation of channel up and downstream,	Routine Inspection
2	Ovsteepened riprap condition	Routine Inspection
3		

Approach from Left Bank when facing downstream

Downstream from Crossing

Upstream from Crossing

Approach from Right Bank when facing downstream

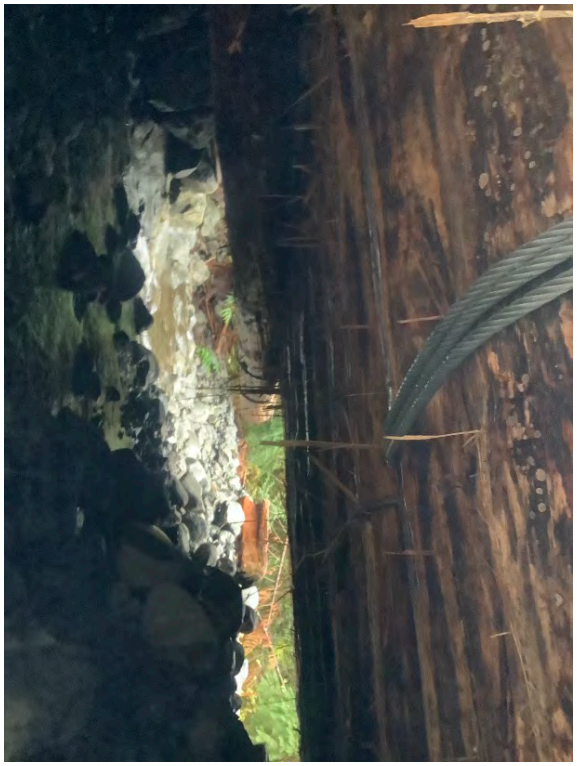
Upstream Profile

Downstream Profile

Right Bank Abutment when facing downstream

Left Bank Abutment when facing downstream

Left Bank Abutment when facing downstream



Stringers

Left Bank Abutment when facing downstream