CK-2019	CAYOOSE CREEK 0.1km	2016 Inspection

CBR iPad Offline Ver 0.23

CBR Data

Latitude	Longitude
49°12'16.49"	-120°59'59.1"

Crossing Name	Skagit River
FSR #	8110
Branch #	1
Road Name	CAYOOSE CREEK
User km	0.1
Current Load Rating (tonnes)	63
Structure Class	Permanent Bridge
Portable	Y
Superstructure	Steel Truss/Bailey/Acrow
Deck Type	Timber - Untreated
Abutment Left	Concrete Lock Blocks
Abutment Right	Concrete Lock Blocks
Spans	1
Total Length (m)	27.4
Deck Width (m)	3.85

Updated Data

Latitude	Longitude
49°12'17.36"	-120°59'58.93"

HD Diff. (m)	26.8	Accuracy (m)	5

40 tonnes

Inspection

Date of Inspection	2016-08-05 8:34:13 AM		
Inspector Name	Tyson Miller	Inspection Company	MFLNRO

Inspector Comments

P.Eng Comments

The deck is at the end of its industrial life - 9 years old - replace ties, planks and guardrail prior to industrial activity. There are 2 missing steel stringers and I recommend replacing those at the same time as the deck. Replace the missing pin clips; replace the delineators and brush the approaches at the same time aswell. Limit loading to 40 tonnes until the deck has been replaced.

P.Eng Seal

Approach

Alignment	Fair	VC right approach
Bridge Ahead Signs Missing	0 1 (•) 2	
Brushing Required	Y	
Delineator Missing Left	0 1 (•) 2	
Delineator Missing Right	0 1 (•) 2	
Fender Condition	Good	
Posted Load Rating		not posted
Road Surface	Fair	

Abutment

Log/Timber Cribs	N/A	
Tie Backs	N/A	
Bin Wall	N/A	
Concrete	Fair	lock block columns at each corner
Caps or Sills	Fair	
Piles or Posts	N/A	
Ballast Wall	Good	lock blocks
Wing Wall	N/A	
Bracing	N/A	
Hardware	Fair	
Fill	Good	
Riprap	Good	
Bearings	Good	
Corrosion Protection	N/A	

Deck

Running Surface	N/A	
Running Planks	Fair - poor	
Sub Deck	N/A	
Ties	Fair - poor	100mm x 250mm on 500mm centers
Nails	Fair	starting to protrude
Deck to Girder Bolts	Fair	not bolted but rather ties notched to fit
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	double single reinforced Acrow/bailey with some corrosion
Diaphragms	Fair	
Bracing	Fair	
Under Trussing	Fair	
Hardware	Fair	
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

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Hazards

Estimated Present Water Level Depth (m)	1.0	High Water ☐	Debris ☐
Estimated Present Water Level Width (m)	8.0	Aggradation ☐	Scour ☐
Estimated High Water Level Clearance (m)	2.0	Ice ☐	

Comments

Repairs and Monitoring

Repair Item	Priority	Repair Description
1	Medium	brush approaches prior to activity
2	High	replace missing clips prior to industrial use
3	Medium	replace missing delineators and post bridge ahead signs
4	Medium	replace deck (ties, planks and guardrail) prior to industrial activity - replace missing steel stringers at same time

Item	Monitor Description	Frequency
1	deck condition - approx 7 years of age	Routine Inspection
2		
3		

structure was installed in the summer of 2008 - the deck is approaching 9 years of age

Sketch
(Select Signature)

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Approach from Right Bank when facing downstream

Deck

Approach from Right Bank when facing downstream

Approach from Left Bank when facing downstream

CK-2019 CAYOOSE CREEK 0.1km 2016 Inspection

looking upstream from deck

Right Bank Abutment when facing downstream

looking downstream from deck

missing 10 foot section of steel stringer

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Upstream Profile

bearing plate - typical all 4 corners

superstructure

end post to ballast wall alignment

missing clips - approx 57 missing - all on top of the bay's

ties are notched to fit on stringers

existing clip

Left Bank Abutment when facing downstream

missing another 10 foot section of steel stringer

approx 20-30mm superstructure sag