

QC-7104

BONANZA 8.7km

2017 Inspection



CBR iPad Offline Ver

CBR Data

Latitude	Longitude
53°24'9.95"	-132°30'58.5"
Crossing Name	Gregory Creek
FSR #	8229
Branch #	7
Road Name	BONANZA
User km	8.7
Current Load Rating (tonnes)	54
Structure Class	Permanent Bridge
Portable	N
Superstructure	Steel I-beam
Deck Type	Timber - Untreated
Abutment Left	Binwall
Abutment Right	Binwall
Spans	1
Total Length (m)	38.3
Deck Width (m)	4.3

Updated Data

Latitude	Longitude
53°24'10.38"	-132°30'58.86"
HD Diff. (m)	14.8
Accuracy (m)	5

Inspection

Date of Inspection 2017-09-13 1:37:22 PM

Recommended Next Inspection Year 2018

Inspector Name Mitch Lowe

Inspection Company Onsite Engineering Ltd

Inspector Comments

This structure is in poor overall condition. Ideally it would be removed, abutments would be reconstructed, superstructure would be sandblasted and painted, and a new deck would be installed.

Recommend a reduced 30t load limit until repairs are completed.

P.Eng Comments

Load Rated by: MFLNRO, J. Harvey, November 7, 2017

Load Rating: 54 Tonnes GVW

Next Inspection: September 1, 2020

Comments: Consider re installation of bridge. Replace deck at minimum.

P.Eng Seal

Approach

Alignment Good

 Bridge Ahead Signs
Missing 0 1 2

Brushing Required N

 Delineator Missing
Left 0 1 2

 Delineator Missing
Right 0 1 2

Fender Condition Good

Posted Load Rating 60 60t load limit posted

Road Surface Good

Abutment

Log/Timber Cribs

Tie Backs

Bin Wall Fair Some damage to binwall. Mostly cause by structure bearing on bin wall.

Concrete

Caps or Sills Poor Concrete pads have settled. No visible damage to pads.

Piles or Posts

Ballast Wall Poor River left ballast wall no longer functioning. Fill no spilling onto girders.

Wing Wall

Bracing

Hardware Good

Fill Poor Fill behind bin wall has failed.

Riprap Good

Bearings Poor Bearing pads have settled. Bridge now sits on binwall.

Corrosion Protection Fair

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Deck

Running Surface	Poor	
Running Planks		
Sub Deck	Poor	Nearing end of life. Plan to replace in 2018.
Ties	Poor	Nearing end of life. Plan to replace in 2018.
Nails	Good	
Deck to Girder Bolts	Fair	
Concrete Deck		
Grout Pockets		
Deck Joints		
Steel Deck Plate		
Gravel Surface		
Curb Rail/Blocks/Posts	Poor	Plan to replace in 2018.
Hand Rails/Walkouts		
Hardware	Fair	
Overall Deck Condition	Fair	
Gravel Depth (mm)		

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Steel/Concrete

Serial/ID Plate None present

Girders Poor Starting to corrode. Corrosion protection is almost worn off. Structure appears to be racked, which could be caused by settled downstream river left corner.

Diaphragms Poor Corroded

Bracing Poor Corroded

Under Trussing

Hardware Poor Corroded

Welded/grouted shear connectors

Log

Log Curbs

Needle Beam

Needle Lashing/
Shimming

Stringer Number	Needle Beam to Crib (m)		Diameter (mm)	Needle Diameter (mm)		Comment
	Species	Peeled		Rot Depth (mm)	Condition	

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Hazards

Estimated Present Water Level Depth (m)	0.5	High Water	<input checked="" type="checkbox"/>	Debris	<input checked="" type="checkbox"/>
Estimated Present Water Level Width (m)	10	Aggradation	<input type="checkbox"/>	Scour	<input checked="" type="checkbox"/>
Estimated High Water Level Clearance (m)	0.5	Ice	<input type="checkbox"/>		

Comments

Repairs and Monitoring

Repair Item	Priority	Repair Description
1	High	Replace entire deck.
2	High	Remove structure and reconstruct abutment.
3	High	Sandblast and repaint structure.

Item	Monitor Description	Frequency
1		
2		
3		

Sketch
(Select Signature)