

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

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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 Cribbs

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

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)	0.5	High Water	☒	Debris	☒
Estimated Present Water Level Width (m)	10	Aggradation	☐	Scour	☒
Estimated High Water Level Clearance (m)	0.5	Ice	☐		

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)