QC-7113	BONANZA 21.2km	2019 Inspection

CBR iPad Offline Ver

CBR Data

Latitude	Longitude
53°29'11.4"	-132°30'17"

Crossing Name	Not Known		
FSR #	8229	Branch #	07
Road Name	BONANZA		
User km	21.2		
Previous Load Rating (tonnes)	150		
Structure Class	Major Culvert		
Culvert Type	Round		
Culvert Material	Corrugated Steel		
Opening Height (mm)	2200		
Opening Width (mm)	2200		
Inlet Cover (mm)	1400		
Outlet Cover (mm)	2600		
Culvert Gradient %	5		
Culvert Length (m)	18		

Updated Data

Latitude	Longitude
53°29'10.8"	-132°30'16.19"

HD Diff. (m)	23.8	Accuracy (m)	5
Inlet Cover (mm)	1100		
Outlet Cover (mm)	2200		
Culvert Gradient %	10		
Culvert Length (m)	21		

Inspection

Date of Inspection	2019-09-16 11:09:36 AM	Recommended Next Inspection Year	2022
Inspector Name	Lindsey McGill	Inspection Company	Chartwell Consultants Ltd.

Inspector Comments

Road fill requires maintenance, culvert is stable.

P.Eng Comments

Load Rated by: FLNRORD, J. Harvey P.Eng., February 13, 2020
Load Rating: 150 Tonnes GVW
Next Inspection: September 1, 2022
Comments: Fill hole in road

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	Unrated	None present
Posted Load Rating		
Road Surface	Fair	Hole in road from failed cross puncheon, 5m past cmp on high chain side.

Abutment

Log/Timber Cribs	
Tie Backs	
Bin Wall	
Pier	
Concrete	
Caps or Sills	
Piles or Posts	
Ballast Wall	
Wing Wall	N/A
Bracing	
Hardware	
Fill	Good
Riprap	Good
Bearings	
Corrosion Protection	

Culvert

Baffles	N/A	
Bolted Connections	N/A	
Coating	Fair	Galvanized but rust present
Coupled Connections	Fair	Minor gaps but does not appear to be leaking.
Embedment Materials	N/A	
Fill	Good	
Floor	Fair	Rust present but no holes.
Footing	Fair	
Head Walls	N/A	
Inlet	Good	Bevelled inlet
Outlet	Good	Bevelled outlet, bedrock below outlet.
Overall	Good	
Rip Rap	Good	
Roof	Good	Shape is elliptical due to deformation from road fills.
Sidewalls	Fair	Shape is elliptical due to deformation from road fills.
Trash Rack	N/A	
Weirs/Backwater Structures	N/A	
Wing Walls	N/A	

Log

Log Curbs	N/A
Needle Beam	N/A
Needle Lashing/ Shimming	N/A

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

Hazards

Estimated Present Water Level Depth (m)	.15	High Water ☐	Debris ☐
Estimated Present Water Level Width (m)	1.5	Aggradation ☐	Scour ☐
Estimated High Water Level Clearance (m)	1.6	Ice ☐	

Comments

Repairs and Monitoring

Repair Item	Priority	Repair Description
1		
2		
3		

Item	Monitor Description	Frequency
1	Monitor for further deformation	Routine Inspection
2		
3		

Sketch
(Select Signature)

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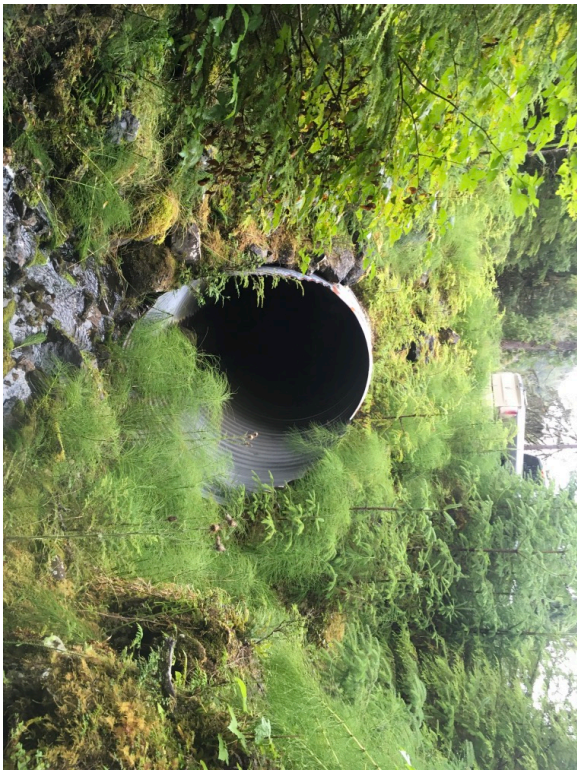
Looking upstream through culvert



Upstream Profile

Downstream Profile

Approach from Left Bank when facing downstream

Upstream from Crossing

Hole in road

Downstream from Crossing

Approach from Right Bank when facing downstream