

Bridge Inspection							
Bridge File Number	73899 -1 Bridge			Form Type	PT TT		
Year Built/Year Supstr	1930/1930			Lot No.	1		
Bridge or Town Name	COCHRANE			Inspector Name	Garry Roberts		
Located Over	WAIPAROUS CREEK, 2.13.49.4, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	40:14 C1 17.039			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	26-Mar-2013		
Legal Land Location	NW SEC 6 TWP 27 RGE 6 W5M			Data Entry By	Lauren Korte		
Longitude, Latitude	-114:50:20, 51:16:59			Data Entry Date	11-Apr-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA28			Review Date	10-Apr-2013		
Clear Roadway/Skew	5.5 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	700 / 2012 (A)			Dept. Review Date	06-May-2013		
Road Classification	RAU-209-110			Follow-Up By			
Detour Length (km)	20						
Allowable Load (t):	Single	CS1 18 STRINGER	Semi	CS2 32 STRINGER	Train	CS3 46 STRINGER	----> On Critical Spans ---->Critical Member
Design Loading:	HS15						----> Primary Span

Posting Information							
Required Load Posting (t)	Single	19	Semi	33	Truck Train	47	
Posted Loading (t)	Single	19.0	Semi	33.0	Truck Train	47.0	
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	Yes	At Bridge (Y/N) Yes
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	Yes	At Bridge (Y/N) Yes
Remarks							
Hazard Marker At Bridge (Y/N)	Yes						
Remarks							
Other Sign Types	Stop if oncoming, narrow bridge, no parking, 30km/hr.						

Utilities (Located at)			
Utility Attachments			
Telephone	South R/W.	Gas	
Power		Municipal	
Others	WSC gauge SE.	Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		3	3	Sharp curves and hills at both ends. Posted @ 30 km/hr.
Vertical Alignment		3	3	
Roadway Width (m)	8.700			Approaches rough- ok for speed traveled.
Approach Bump		5	5	
Guardrail (Y/N)	Yes			Missing 3 splice bolts at NW.
Guardrail		4	4	Minor damage at SE and NE.
Length (m)	8.000			Not thrie beam.
Current Standard (Y/N)	No			
Termination Type	TURNED DOWN			
Drainage		5	5	
Approach Road General Rating		3	3	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PT, 4 Spans, Lengths(m): 8.5-15.2-15.2-6.1, A-Ident Number: A0155-03;A0155-04)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Gravel/ice along West side.
Last	0	0	0	0	
Now	20.0	0.0	0.0	0.0	
Wearing Surface/Deck Top				6	6
(Material Type : UNTREATED TIMBER)					
(Plank Thickness(mm) : 75)					
(Plank Width(mm) : 305)					
Deck Rideability				6	6
Deck Joints				X	X
Temperature (deg. C)					
(Expansion Type :)					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
Curbs/Wheel Guards				4	4
(Curb Type : Standard)					
(Type : TREATED TIMBER)					
(Thickness(mm) : 100)					
(Width(mm) : 300)					
Bridge Rail				6	6
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts/Blocking				4	4
(Type : TREATED TIMBER;TREATED TIMBER)					
Bridge Rail/Posts Coating				4	4
(Type : PAINT)					
Sidewalk				X	X
Rot in wheelguard planks @ West curb @ P2. Split and damaged block at P1 West side.					
Minor lattice damage. Double layer flexbeam.					
Timber, blocking & steel end posts. Steel posts cracked over pier 1 and 3 have timber posts nearby. Minor corrosion @ lattice.					

Superstructure						
Bridge Component		Last		Now		Explanation of Condition
(Primary Span : PT, 4 Spans, Lengths(m): 8.5-15.2-15.2-6.1, A-Ident Number: A0155-03;A0155-04)						
Wide Load Damage (Y/N)	No					Span 2 inside vertical gusset at L0E perforated. Corrosion between plates causing distortion and bulging at several connections. Missing 2 bolts at Sp.2 L4W - Lower floor beam to gusset and bottom lateral. 9/bay x 8= 72 Heavy corrosion and section loss at top flanges.
Top Chord			7	7		
Batter Posts			7	7		
Diagonals			7	7		
Verticals			7	7		
Connections			3	3		
Floor Beams			5	5		
Bottom Chord			5	5		
Lateral Bracings			5	5		
(No. of Stringers : 36;36)						
Stringer Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Stringers			4	4		
(Type : STEEL)						
(Width(mm) : 230)						
(Depth(mm) : 110)						
(Spacing(mm) : 730)						
Paint Condition			3	3		Span 2 at L0E, inside vertical plate is perforated. Silver. (Corrosion @ edges top flanges of floor system. Full thickness of top flange is 0.306"- past UT indicates thickness is 0.184" resulting in 0.120" section loss @ top flange of stringer).
(Colour Description : SILVER)						
(Colour Code : SILVER)						
Touchup Required (Y/N)	No					
Bearings			5	5		Sliding plates at P2.
Temperature (deg. C)	7					
(Expansion Type : SLIDING PLATE)						
(Fixed Type : PINNED BEARING)						
Functioning (Y/N)	Yes					
Sub Deck/Deck Underside			5	5		
(Material Type : TREATED TIMBER)						
(Plank Thickness(mm) : 100)						
(Plank Width(mm) : 305)						
Defects (Percent Area)	2					
Span Alignment Problems						
Vertical (Y/N)	No					
Horizontal (Y/N)	No					
Superstructure General Rating			3	3		
Superstructure						
Bridge Component		Last		Now		Explanation of Condition
(Secondary Span : TT)						
Special Features						
Special Feature					X	
(Type :)						
Special Feature					X	
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now	0.0	0.0	0.0	0.0		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Secondary Span : TT)					
Wearing Surface/Deck Top		5	5	Minor wear.	
(Material Type : UNTREATED TIMBER)					
(Plank Thickness(mm) : 75)					
(Plank Width(mm) : 305)					
Deck Rideability		5	5		
Wheel Guards		3	5	Minor grader scrapes.	
(Curb Type : Standard)					
(Type : TREATED TIMBER)					
(Thickness(mm) : 100)					
(Width(mm) : 300)					
Bridge Rail		7	7	Double Layer.	
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts		7	7		
(Type : TREATED TIMBER;TREATED TIMBER)					
Bridge Rail/Posts Coating		6	6		
(Type : PAINT)					
(No. of Stringers : 12;9)				Sp.1 - S9 split from bolt but is curb stringer. Sp.4-S4 is cracked at North end.	
Stringer Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	Sp. 1 South has 12 stringers at 150x400 at 650mm spacing.
Now	0	0	0	1	
Stringers		5	3	Sp.4 North has stringers: 195 x 490 at 650mm spacing. Sp.4 - S6 is sistered. Top corner missing from Sp.1 - S9. Curb stringers overhang caps slightly-no problem.	
(Type : TREATED TIMBER)					
(Width(mm) : 150)					
(Depth(mm) : 400)					
(Spacing(mm) : 650)					
Sub Deck/Deck Underside		6	5		
(Material Type : TREATED TIMBER)					
(Plank Thickness(mm) : 100)					
(Plank Width(mm) : 305)					
Defects (Percent Area)	0				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating		5	3		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
(Extended Backwall Piles (Y/N) : Y)				T.T stringers appear to be settling into caps at both abuts.	
(Extended Backwall Piles Spacing(mm) : 1900)					
(Total Number of Caps/Corbels : 1:1)					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Bearing Seats/Caps/Corbels		6	5		
(Type : TREATED TIMBER)					
(Depth(mm) : 305)					
(Width(mm) : 305)					

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Backwalls/Breastwalls		4	4	Not low enough at both abutments Breastwalls added at both abuts. No active loss of fill.		
Greatest Height (m)	2.00					
Wingwalls		6	6			
(Total Number of Bearing Piles : 4:4)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Piles		5	5			
Paint/Coating		X	X			
Abutment Stability		6	6			
Scour/Erosion		6	4	Minor erosion at SE.		
Piers/Bents						
(Type : PIER-SOLID)						
(Total Number of Caps/Corbels : 2:1:2)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Minor delam under bearing at East end of P1. 305 x 305mm TT caps on pier 1 plus shim under each stringer. Suspect rot in P3 cap.	
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels		4	4			
(Type : CONCRETE)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles : 0:0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Heavy scaling @ bottom of center pier & East end of pier 1. Massive concrete.	
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles		4	4			
Greatest Height (m)	5.30					
Bracing/Struts/Sheathing		X	X			
Nose Plate		X	X			
Paint/Coating		X	X			
(Colour Description :)						
(Colour Code :)						
Pier Stability		7	7			
Scour		5	5			
Debris (Y/N)		No				
Substructure General Rating		4	4			
Structure Usage						
		Last	Now	Explanation of Condition		
Channel						
(U/S Direction : W)						
(D/S Direction : E)						
Alignment		5	5	90 degree bends up and down stream		

Structure Usage				
		Last	Now	Explanation of Condition
Bank Stability		6	6	
HWM (m below Top of Curb)	2.0			HWM not visible (Date of measurement unknown) Minor drift in channel and at P2.
Drift (Y/N)	Yes			
Slope Protection (Type : NATURAL)		5	5	Natural rockwall at South.
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Proposed Long-Term Strategy			
On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Garry Roberts	Previous Assistant's Name	
Next Inspection Date	26-Dec-2014	Previous Inspection Date	14-Jun-2011
Inspection Cycle (Default) (months)	21		
Comment			