

Bridge Inspection							
Bridge File Number	74710 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1970/1970			Lot No.	1		
Bridge or Town Name	ENTRANCE			Inspector Name	Shane Hall		
Located Over	BERLAND RIVER, 8.11.118, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	40:32 C1 18.015			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	17-Oct-2012		
Legal Land Location	SE SEC 22 TWP 55 RGE 3 W6M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-118:21:22, 53:45:41			Data Entry Date	26-Nov-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA05			Review Date	19-Nov-2012		
Clear Roadway/Skew	10.4 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	1,090 / 2011 (A)			Dept. Review Date	06-Dec-2012		
Road Classification	RAU-209-110			Follow-Up By			
Detour Length (km)	420						
Allowable Load (t):	Single	CS 1 41 GIRDER	Semi	CS2 55	Train	CS3 69 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20						----> Primary Span

Posting Information								
Required Load Posting (t)			Single		Semi		Truck Train	
Posted Loading (t)			Single		Semi		Truck Train	
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No
Remarks	Not required.							
Hazard Marker At Bridge (Y/N)	Yes							
Remarks								
Other Sign Types	Information, "Berland River"							

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	West r/w.	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	In long sag curve with good sight distance, approach road @ NW.
Vertical Alignment		7	7	
Roadway Width (m)	8.500			Potholes @ South & North approach ACP.- photo.
Approach Bump		4	4	Pothole @ SE corner, filled with gravel.-photo ACP removed adjacent to SW approach curb create wheel trap.-photo
Guardrail (Y/N)	Yes			NW - 38.5m; NE - 30.9m; SE - 42.3m; SW - 34.7m.
Guardrail		6	4	NE corner turndown not attached to post.-photo
Length (m)	30.900			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		N	4	Erosion gullys at SE & SW corners.-photo
Approach Road General Rating		7	4	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 2 Spans, Lengths(m): 22.9-22.9, A-Ident Number:)					
Special Features					
Special Feature		8	8		
(Type : EXT LATER POST TENS)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	50	0	0	0	
Now				1.0	
Wearing Surface		4	3	Medium longitudinal & transverse cracks - photo. 600 x 300 area near cl @ AZ is cracked and appears to be punching through.-photo Deck spans adjacent to deck joint at pier.-photo	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		Yes			
Deck Top		N	N		
Deck Rideability		6	6		
Deck Joints		4	4	Pier joint leaks, plumbing freezes & overflows @ ends of pier, stain ends & under bearings - photo. -23-Nov-2010 South fingers 5-10mm higher than North pier.	
Temperature (deg. C)		4			
(Expansion Type : FINGER PLATES)					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
70		N. abut			
40		Pier			
75		S. abut			
Deck Drainage		N	4	Bird bath at SW. -08-Feb-2009 Scaling and delamination at pier due to leaky joint.	
Drains Clogged (Y/N)		No			
Curbs/Median		N	4	Plow scrapes. NE approach curb has several spalls/delams.-photo NW approach curb has medium scaling 250x250 spall top of E. curb.-photo SE & SW approach curbs have severe scaling/spalls.-photo	
(Curb Type : Standard)					
Scaling (Percent Area)		15			
Bridge Rail		7	4	6 splice bolts missing from East rail.-photo 2 splice bolts missing from West rail.-photo Inadequate threads on 4 bolts at NE corner.-photo	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		7	4		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		7	7		
(Type : GALVANIZED)					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	2	5	
Now				7	
Girders		2	3	G2/S1 has 2 exposed strands with superficial corrosion on strand. Wide vertical crack, S1G1 @ South abutment - photo. Wide vertical crack with rust stain at N end of S1G1.-photo S2G1 has narrow vertical crack and spall at N end.photo Most girders with rust stain on legs due to low cover on chairs. S1G2 has efflorescence and scaling on girder underside.	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		2			
(Number Of Girders : 14)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 2 Spans, Lengths(m): 22.9-22.9, A-Ident Number:)				
Diaphragms/Cross Frame		5	5	Few cracks, stains G1 @ pier.
Bearings		4	4	Three masonry plates are starting to rust. Pier bearings insp. from headslope -no issues apparent. Raised fingers on S side of pier joint suggests potential bearing corrosion issue.
Temperature (deg. C)	4			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		5	5	S1G7 has efflorescence and scaling.
Stains (Percent Area)	5			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		2	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		4	4	Horizontal cracks in both abutment seats under bearings.
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	
Wingwalls		4	4	Delamination and cracking at SW corner of A1 abutment/wingwall.- photo Wide vertical crack at NE wingwall.
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		5	4	Wide crack @ NE corner of slope protection allowing water underneath - photo.
Piers/Bents				
(Type : PIER-SOLID)				Scaling under bearings from leaking joint above.
Bearing Seats/Caps		4	4	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				Abrasion on the pier lower sections rebar exposed. Vertical crack on South face.
Pier Shaft/Piles		4	4	
Bracing/Struts/Sheathing		X	X	
Nose Plate		6	6	
Paint/Coating		4	4	Scaling @ waterline - photo. Pier nose plate rusting.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	5	
Scour		3	3	Undermined @ East ends for approx. 4m - photo.
Debris (Y/N)	Yes			Drift on N side.-photo
Substructure General Rating		4	4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				River makes sharp bend U/S; armoured. Meandering channel through wide valley.
(D/S Direction : E)				
Alignment		5	5	
Bank Stability		5	5	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			Significant drift caught on pier.-photo
Slope Protection		5	4	HP's driven to hold rock in place. Sounds hollow underneath when sounded with a hammer. Rock below concrete. Crack/void at NE corner.-photo
(Type : CONCRETE; RIP RAP)				
Guidebank/Spurs		7	7	Spur on right bank, 150m U/S.
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Shane Hall	Previous Assistant's Name	
Next Inspection Date	17-Jul-2014	Previous Inspection Date	23-Nov-2010
Inspection Cycle (Default) (months)	21		
Comment			