

Bridge Inspection									
Bridge File Number	80869 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1988/1988				Lot No.	2			
Bridge or Town Name	RED EARTH CR				Inspector Name	Brian Pientsch			
Located Over	LUBICON RIVER, 8.10.18.12.15, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	986:06 C1 19.831				Assistant Name	Clem Guenette			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	12-Mar-2013			
Legal Land Location	SW SEC 23 TWP 86 RGE 10 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-115:28:06, 56:27:54				Data Entry Date	08-Apr-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA02				Review Date	08-Apr-2013			
Clear Roadway/Skew	10 / -30 deg. (LHF)				Dept. Reviewer Name				
AADT/Year	580 / 2012 (A)				Dept. Review Date				
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	135								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS230						----> Primary Span		
Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	WB	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	Not installed on bridge.								
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others	Fibre optic line -South R/W				Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	Wide crack in ACP with ravelling at approaches.				
Vertical Alignment			8	8					
Roadway Width (m)	9.400								
Approach Bump			4	6					
Guardrail (Y/N)	Yes								
Guardrail			8	8					
Length (m)	46.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN ENDS								
Drainage			8	8					
Approach Road General Rating			8	8					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 5 Spans, Lengths(m): 8-10-11-10-8, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	10.0	0.0	0.0	0.0	
Wearing Surface			5	4	Wide cracks over piers-photo Corrosion stains on underside from connector pockets of curbs.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	7	Buffer angle
Bump (Y/N)		No			
Deck Drainage			7	7	NO DRAINS
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	S1G1 has a minor spall below bridge rail post.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			7	7	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			7	7	
(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					
Now					
Girders			4	4	25/45 Girders have hairline cracks. S3G1 has a minor spall on SW corner-outside curb. S2G1 narrow diagonal crack @ u/s.
Last Complete Inspection Date		12-Mar-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 45)					
Span Alignment Problems					
Vertical (Y/N)		No		Curbs misaligned 30mm. Stablized since deck overlaid.-09-Oct-2009	
Horizontal (Y/N)		Yes			
Superstructure General Rating			4	4	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels			8	8		
(Type : STEEL)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
Backwalls/Breastwalls			5	5		
Greatest Height (m)		1.10				
Wingwalls			X	6	Based on 50% visibility.	
(Total Number of Bearing Piles : 6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Piles			8	7		
Paint/Coating			5	5	Superficial rust on piles & caps	
Abutment Stability			5	5		
Scour/Erosion			5	5		
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1:1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels			8	8		
(Type : STEEL)						
(Depth(mm) : 300)						
(Width(mm) : 600)						
(Total Number of Bearing Piles : 6:6:6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles			8	7		
Greatest Height (m)		4.00				
Bracing/Struts/Sheathing			8	8		
Nose Plate			8	8		
Paint/Coating			5	5	PILES NOT PAINTED 1 M ABOVE WATERLINE. 5% flaking off piles & caps with superficial rust.	
(Colour Description : BROWN)						
(Colour Code : 504-104;30252)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		7	7	
Debris (Y/N)	Yes			Drift across u/s piers.
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)				NO HWM VISIBLE.
Drift (Y/N)	No			
Slope Protection (Type : RIP RAP)		5	5	Rock riprap installed on West headslope and part on East headslope to prevent further erosion.
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	Seal cracks in deck.					
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Patch cracks at approaches.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	53.6/53.5	Est. Repl. Yr	2036	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	12-Jun-2016		Previous Inspection Date	01-Apr-2011			
Inspection Cycle (Default) (months)	39						
Comment							