

Bridge Inspection									
Bridge File Number	70922 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1979/1979				Lot No.	2			
Bridge or Town Name	LAC LA BICHE				Inspector Name	Eric Carcoux			
Located Over	BEAVER RIVER, 7, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	36:26 C1 61.750				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	12-Apr-2012			
Legal Land Location	SW SEC 31 TWP 65 RGE 13 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-111:58:18, 54:39:39				Data Entry Date	08-May-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer			
Contract Main. Area	CMA08				Review Date	30-Apr-2012			
Clear Roadway/Skew	11.3 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	2,990 / 2011 (A)				Dept. Review Date	12-Jun-2012			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	7								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member		
Design Loading:	MS23						---> 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)	No								
Remarks	Not required.								
Other Sign Types	"Beaver River" NW & SE. (Knocked down @ SE.)								

Utilities (Located at)									
Utility Attachments									
Telephone	West r/w.				Gas				
Power	3 wires OH 35 m east.				Municipal				
Others	Fibre optic E r/w.				Problem (Y/N)		No		
Remarks	Canada Geodetic survey marker #85A177 at SW wingwall.								

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		8	8	Crest curves with no passing SB.					
Vertical Alignment		7	7						
Roadway Width (m)		11.000							
Approach Bump		6	6						
Guardrail (Y/N)		Yes		Not thrie beam					
Guardrail		3	5						
Length (m)		37.200							
Current Standard (Y/N)		No							
Termination Type		Turned Down							
Drainage		4	4	Headslope eroded with gullies formed under caps. 600 deep x 600 x 7000mm under South embankment. Exposed underside of cap ~200mm below both caps.					
Approach Road General Rating		7	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 3 Spans, Lengths(m): 10-10-10, 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					
Wearing Surface			6	6	Transverse cracks at all joints, 5mm wide - sealed.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Buffer angles paved over.
Bump (Y/N)		No			
Deck Drainage			4	4	Leakage through joint cracks onto pier caps. 40% stained with thoro-shoen peeling off. Drains to North of bridge. Gullies at A1.
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	
(Curb Type : Standard)					
Scaling (Percent Area)		5			
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)	S2 girders not accessible. Viewed from banks.
Last					
Now	10	0	0	0	
Girders			5	5	Diagonal crack on most curb units underside at piers, too high to mark. Rust stains from connector pockets. Map hairline cracking on outside face of curb girders. Longitudinal crack on fascia of girder with rust stains S3G10.
Last Complete Inspection Date		12-Apr-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 30)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			5	5	

Substructure							
Bridge Component				Last	Now	Explanation of Condition	
Abutments							
(Extended Backwall Piles (Y/N) : N)							
(Extended Backwall Piles Spacing(mm) :)							
Piece of wood cast into top of SE wingwall.							
(Total Number of Caps/Corbels : 1:1)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)	200x400 spall @ W. end AZ.-photo A2 delam crack under G1, 400 long.		
Last							
Now							
Bearing Seats/Caps/Corbels				4			4
(Type : CONCRETE)							
(Depth(mm) : 800)							
(Width(mm) : 650)							
Backwalls/Breastwalls				X	X		
Greatest Height (m)		1.20					
Wingwalls				5	5		
(Total Number of Bearing Piles : 7:7)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	7	0	0	0			
Now	7	0	0	0			
Piles				5			5
Paint/Coating				4			4
Thorosheen flaking off on 15%.							
Abutment Stability				7	7		
Scour/Erosion				4	4	Gullyng on South embankment, loss of material under cap - photo.	
Piers/Bents							
(Type : PIER-COLUMN)							
(Total Number of Caps/Corbels : 1:1)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)	Scaling & delam/cracking at P2 - photo. Similar at P1.		
Last							
Now							
Bearing Seats/Caps/Corbels				4			4
(Type : CONCRETE)							
(Depth(mm) : 800)							
(Width(mm) : 650)							
(Total Number of Bearing Piles : 7:7)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last							
Now							
Pier Shaft/Piles				7			7
Greatest Height (m)		5.00					
Bracing/Struts/Sheathing				7	7	50% under ice.	
Nose Plate				X	X		
Paint/Coating				4	4	Major leakage at pier joints has now caused Class V finish to peel off on 40% - staining. Underside of bracing rust and pipe piles at waterline.	
(Colour Description : BLUE)							
(Colour Code : 15182)							

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		N	5	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Meandering stream, shallow banks.
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection (Type : NONE; NONE)		4	4	Erosion gullies @ headslopes.
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Fill gap under abutment caps & armour headslopes.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Patch abutment 2 and pier caps where delaminated.					
OTHER ACTION	2012	Restore 'Beaver River' sign.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	51.4/50.9	Est. Repl. Yr	2030	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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	12-Jan-2014		Previous Inspection Date	31-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							