

Bridge Inspection									
Bridge File Number	71054 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1959/1959				Lot No.	2			
Bridge or Town Name	BEAVERLODGE				Inspector Name	Brian Pientsch			
Located Over	BEAVERLODGE RIVER, 8.10.58.18.8.1, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	722:02 C1 31.684				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	24-Jun-2010			
Legal Land Location	SE SEC 34 TWP 71 RGE 10 W6M				Data Entry By	Jill Potts			
Longitude, Latitude	-119:26:15, 55:11:22				Data Entry Date	13-Oct-2010			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer			
Contract Main. Area	CMA05				Review Date	16-Sep-2010			
Clear Roadway/Skew	7.3 /				Dept. Reviewer Name	Steve Pasquan			
AADT/Year	960 / 2010 (A)				Dept. Review Date	22-Nov-2010			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 44 GIRDER	Semi	CS2 48 GIRDER	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS20						----> Primary Span		

Posting Information									
Required Load Posting (t)			Single		Semi	49	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	Incorrect height.								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	SW r/w.				Gas				
Power	2 wire East side of road.				Municipal				
Others	Stream gauging station. Environment Canada @ SE corner.				Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Curve 100m North, driveway at SW corner.				
Vertical Alignment			8	8					
Roadway Width (m)			9.200						
Approach Bump			7	7					
Guardrail (Y/N)			Yes		Accident damage SW corner.				
Guardrail			N	3					
Length (m)			15.200						
Current Standard (Y/N)			Yes						
Termination Type			Turn Down						
Drainage			7	7					
Approach Road General Rating			5	5					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PO, 1 Spans, Lengths(m): 30.5, A-Ident Number:)						
Special Features						
Special Feature		8	8			
(SType : EXT SHEAR STIRRUP)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	100					
Now						
Wearing Surface		N	5	Ice lug damage from track machine.		
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)	No					
Deck Top		N	N			
Deck Rideability		8	7			
Deck Joints		3	3	Moisture appears to be leaking around the concrete blockouts for the joint paving lips. Underside of deck joints spalling.		
Temperature (deg. C)	24					
(Expansion Type : SLIDING PLATES)						
(Fixed Type : BUFFER ANGLES)						
Gap Size (mm)	Gap Location					
76	South abutment - A1					
78	North abutment - A2					
Deck Drainage		4	4	Leaking onto cap causing scaling - photo.		
Drains Clogged (Y/N)	No					
Curbs/Median		N	5	Medium scaling along inside curb face.		
(Curb Type : Standard)						
Scaling (Percent Area)	10					
Bridge Rail		4	4	Not continuous over abutments and not connected to parapits. Anchor bolts not torqued adequately, appears to be damaged/rusted threads.		
(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						
Now						
Girders		7	7			
Cracking (Y/N)	No					
Spalling (Percent Area)	0					
(Number Of Girders : 5)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 1 Spans, Lengths(m): 30.5, A-Ident Number:)				
Diaphragms/Cross Frame		7	7	
Bearings		7	5	Exterior girder bearing severe rusting.
Temperature (deg. C)	24			
(Expansion Type : STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		4	3	Extensive concrete spalling of abutment 1 cap at East & West corners.
(Type : CONCRETE)				
Backwalls/Breastwalls		6	5	
Wingwalls		N	6	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type :)				
Bearing Seats/Caps		X	X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles		X	X	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	3	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		6	6	
Bank Stability		6	5	Bends D/S with some vertical banks.
HWM (m below Top of Curb)	2.1			(6 sticks sitting on A1 cap - photo. 06/Feb/2007)
Drift (Y/N)	Yes			
Slope Protection		4	4	Toe of South headslope eroded. Erosion gullies on North headslope. Concrete sandbags, only South headslope. Natural on north headslope.
(Type : CONCRETE; CONCRETE)				
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	2010	Repair guardrail SW corner.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2010						
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2010	Repair concrete caps.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/44.4	Sufficiency Rating (Last/Now) (%)	58.7/52.3	Est. Repl. Yr	2028	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	Colin Roy		Previous Assistant's Name				
Next Inspection Date	24-Sep-2013		Previous Inspection Date	06-Feb-2007			
Inspection Cycle (Default) (months)	39						
Comment							