

Bridge Inspection									
Bridge File Number	73274 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1978/1978				Lot No.	2			
Bridge or Town Name	COALSPUR				Inspector Name	Shane Hall			
Located Over	EMBARRAS RIVER, 8.11.107.33, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	47:06 C1 1.943				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	16-Oct-2012			
Legal Land Location	NW SEC 34 TWP 48 RGE 21 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-116:59:40, 53:11:26				Data Entry Date	14-Nov-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA13				Review Date	12-Nov-2012			
Clear Roadway/Skew	10.7 / 25 deg. (RHF)				Dept. Reviewer Name	Brent Herrick			
AADT/Year	1,020 / 2011 (A)				Dept. Review Date	20-Nov-2012			
Road Classification	RAU-213.4-120				Follow-Up By				
Detour Length (km)	126								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49					
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	CS3 is below legal limit.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	At varying heights, do not meet standard.								
Other Sign Types	"Embarras River" ID sign.								

Utilities (Located at)									
Utility Attachments									
Telephone	East r/w.				Gas				
Power	Crossing 80m South.				Municipal				
Others	CN signals & comm lines @ E.				Problem (Y/N)	No			
Remarks	RR signal, propane tank, communication tower along SE embankment, South of bridge.								

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	Sharp curve at North end, poor sight line. No passing.				
Vertical Alignment			7	7					
Roadway Width (m)	12.400								
Approach Bump			5	5					
Guardrail (Y/N)	Yes				Not thrie beam transition. Damaged post @ NE turndown.-photo				
Guardrail			4	4					
Length (m)	26.200								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			5	5	Drainage blocked by snow/ice buildup along both sides.-09-Nov-2010				
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FM, 1 Spans, Lengths(m): 34, A-Ident Number:)					
Special Features					
Special Feature		7	7	25mm epoxy strand @ nom. 600mm o/c. (Type : EXT LATER POST TENS)	
(Type : EXT LATER POST TENS)					
Special Feature		7	7	Underslung beams. (Type : UNDERSLUNG DIAPHR)	
(Type : UNDERSLUNG DIAPHR)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now					
Wearing Surface		6	5	Grout key cracks routed and filled with epoxy sealant. Previous to lateral stressing. (Tyne finish worn down.-03-Feb-2009) Chipseal over concrete 5% chipseal worn off at CL and at joints.	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		7	8		
Deck Joints		5	4	South joint appears to be leaking based on ponding water on cap at bearing #4.-photo	
Temperature (deg. C)		0			
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
85		S. abut (A1) - armoured			
70		N. abut (A2) - gland			
Deck Drainage		6	5	No deck drains	
Drains Clogged (Y/N)		No			
Curbs/Median		4	4	Delaminations and rust staining at NW approach. Other approach curbs have grader scrapes. Spall @ outside face at NW corner.-photo	
(Curb Type : Standard)					
Scaling (Percent Area)		30			
Bridge Rail		7	7	Insufficient threads on one post at SE and one at SW corners. (Type : GALVANIZED STEEL BRIDGE TUBE)	
Bridge Rail Posts		4	4		
(Type : GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		6	5		
(Type : GALVANIZED)					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	1	
Now				1	
Girders		3	3	Typical diagonal hairline cracks @ chamfer line and end blocks. 400mm long spall with exposed rebar at S. end of G1.-photo	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
(Number Of Girders : 7)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FM, 1 Spans, Lengths(m): 34, A-Ident Number:)				
Diaphragms/Cross Frame		6	6	
Bearings		6	6	Scale rust & salt stains on South abutment masonry plates.
Temperature (deg. C)	-10			
(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		7	5	Typical rust staining at girder construction joints-most girders.-photo
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		4	7	
Piles		N	N	
Paint/Coating		X	5	Top of abutment seats sealed.
Abutment Stability		7	7	
Scour/Erosion		5	4	North abutment headslope settled 100-150mm for full length exposing bearing piles.
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		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				CNR bridge 40m East, D/S.
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)		No		
Slope Protection (Type : CONCRETE; RIP RAP)		6	7	Bedrock south side. Class II-III north side only. Old concrete abutment in place on South side used as retaining wall.
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	7	

Inspection Cycle (Default) (months)	21
Comment	