

Bridge Inspection									
Bridge File Number	73184 -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	40:24 C1 34.655				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	16-Oct-2012			
Legal Land Location	NE SEC 28 TWP 48 RGE 21 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-117:00:31, 53:10:23				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	12.2 / 30 deg. (RHF)				Dept. Reviewer Name	Brent Herrick			
AADT/Year	300 / 2011 (A)				Dept. Review Date	20-Nov-2012			
Road Classification	RCU-209G-90				Follow-Up By				
Detour Length (km)	50								
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									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks	Mounted on approach rail posts. Too low.								
Other Sign Types	Information, Curve, Route Marker.								
Utilities (Located at)									
Utility Attachments									
Telephone	East r/w.				Gas				
Power	8 wires West r/w.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Hwy 40 junction, 200 m south.				
Vertical Alignment			7	7					
Roadway Width (m)	12.000								
Approach Bump			5	5					
Guardrail (Y/N)	Yes				Guardrail on east side only. Missing shim blocks @ transitions. Not long enough, insufficient posts.				
Guardrail			3	4	1 damaged post, second from bridge @ SE.-photo				
Length (m)	34.200								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			4	4	Windrows under guardrail.				
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure							
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : <b>FM, 1 Spans, Lengths(m): 34, A-Ident Number: </b> )							
<b>Special Features</b>							
Special Feature			X				
(Type : )							
Special Feature			X				
(Type : )							
Wearing Surface/Deck Top Detail Ratings							
	N (%)	1 (%)	2 (%)	3 (%)			
<b>Last</b>	100	0	0	0			
<b>Now</b>	100.0	0.0	0.0	0.0			
Wearing Surface			N	N	(4 wide long cracks visible. Verified 19/June/2007. 19/June/2007) Dirt covered. Gravel on deck.		
(Material Type : <b>CONCRETE</b> )							
(Thickness(mm) : <b>50</b> )							
Lateral Connection Problem (Y/N)	Yes						
Deck Top			N	N			
Deck Rideability			4	7			
Deck Joints			4	4	Joint appears to leak @ NE. Stains on abutment seat. Only 30% inspectable due to drift/gravel on N. joint.		
Temperature (deg. C)		7					
(Expansion Type : <b>ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES)</b> )							
(Fixed Type : <b>ASPHALTIC FIBRE BOARD</b> )							
Gap Size (mm)		Gap Location					
90		North abut					
10		South abut					
Deck Drainage			5	4	Dirt/gravel windrows along curbs.-photo No deck drains		
Drains Clogged (Y/N)		No					
Curbs/Median			5	N	Dirt/gravel covered.		
(Curb Type : <b>Standard</b> )							
Scaling (Percent Area)		0					
Bridge Rail			7	N	Dirt covered. Dirty.		
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )							
Bridge Rail Posts		4	N				
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )							
Bridge Rail/Posts Coating			7	N			
(Type : <b>GALVANIZED</b> )							
Sidewalk			X	X			
Girder Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>	0	0	0	0			
<b>Now</b>				1			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>FM, 1 Spans, Lengths(m): 34, A-Ident Number: </b> )				
Girders		4	3	Typical narrow crack & chamfer most girders extend to first diaphragm @ G1/G8. Cracks at end blocks . NE marked. No evident progression since 19-June-2007.  Hairline horizontal crack in W leg of 4/8 girders at AZ.  Delam crack at A1G8 in E leg.-photo Medium horizontal crack in E leg of A1G8 and A1G1.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : <b>8</b> )				
Diaphragms/Cross Frame		5	5	Hairline diagonal diaphragm cracks on North & South. 30% of ends and 5% of next ones from abutments.
Bearings		6	7	
Temperature (deg. C)	8			
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	5	Staining at const./cold joint locations all girders. Appears to be fabrication repair.-photo
Stains (Percent Area)	2			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>4</b>	<b>3</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		5	5	17 H-piles visible @ South abutment - photo.
Paint/Coating		7	7	Top of abutment seats sealed.
Abutment Stability		6	6	
Scour/Erosion		4	4	200mm deep void under South abutment due to settlement.- photo.
<b>Piers/Bents</b>				
(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	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				Stream bends at the bridge but banks are rock. Sloughing on North bank, exposed shale rock.
(D/S Direction : <b>E</b> )				
Alignment		6	6	
Bank Stability		6	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	South side only, Class I-II.
(Type : <b>RIP RAP; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>6</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Confirm if North joint leaking, repair if necessary.					
RESET/ PAINT BEARINGS							
WASHING	2013						
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Replace one broken guardrail post. Install guardrail on West side.					
OTHER ACTION	2013	Remove windrows under guardrail.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>56.6/55.1</b>	Est. Repl. Yr	2048	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracking/delamination.		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	Wayne Cappellani		Previous Assistant's Name	Brent Herrick			
Next Inspection Date	16-Jul-2014		Previous Inspection Date	04-Oct-2012			
Inspection Cycle (Default) (months)	21						
Comment							