

Bridge Inspection							
Bridge File Number	74137 -1 Bridge			Form Type	CON		
Year Built/Year Supstr	1958/1958			Lot No.	2		
Bridge or Town Name	SPRING COULE			Inspector Name	Jason Rusu		
Located Over	MID - IRRIGATION C, WATERCRS-IC			Inspector Class	BR CLS A		
Located On	5:04 C1 24.378			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	16-Oct-2011		
Legal Land Location	NW SEC 33 TWP 4 RGE 23 W4M			Data Entry By	Anne Roberts		
Longitude, Latitude	-113:02:39, 49:20:39			Data Entry Date	24-Nov-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA25			Review Date	09-Nov-2011		
Clear Roadway/Skew	13.7 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	2,480 / 2010 (A)			Dept. Review Date	25-Nov-2011		
Road Classification	RAU-213-130			Follow-Up By			
Detour Length (km)	3						
Allowable Load (t):	Single	CS1 38 DECK	Semi	CS2 67 DECK	Train	CS3 96 DECK	----> On Critical Spans ---->Critical Member
Design Loading:	HS20						----> 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)	No							
Remarks	Not required							
Other Sign Types								

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	South ditch	Gas	x channel (underneath) 20 m N.
Power	N. 4-wire, S. 3-wire	Municipal	
Others	Wier on South(downstream) side	Problem (Y/N)	No
Remarks	Fibre optics @ S R/W		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curve 400 m west.
Vertical Alignment		9	9	
Roadway Width (m)	13.500			ACP is 20mm low at S. approach.
Approach Bump		5	5	
Guardrail (Y/N)	Yes			12 m SECTIONS ALONG CANAL TYPE VI @ ALL CORNERS
Guardrail		7	7	
Length (m)	8.000			Not thrie beam
Current Standard (Y/N)	No			
Termination Type	FLARE ENDS			
Drainage		4	4	300x600mm dp erosion @ NW Wingwall
Approach Road General Rating		7	7	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CS, 4 Spans, Lengths(m): 8.5-8.5-8.5-8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			5	5	Hairline narrow cracks throughout. Delam cracks at both lanes over P2.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			7	7	
Temperature (deg. C)		14			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
79	E. PIER				
83	W. PIER				
Deck Drainage			6	6	Leakage @ abuts - not causing any deterioration
Drains Clogged (Y/N)		No			
Curbs/Median			6	3	Recast sections-have cracking & surface spalls. 100 mm ³ void over P2 at South, fills with water.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	INSUFFICIENT THREADS ON 5% ANCHOR NUTS
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	4	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girders			X	X	
Diaphragms/Cross Frame			X	X	
Bearings			5	5	VERY RUSTY, PITTED & FLAKING @ ABUTS. BEARINGS @ PIERS STEEL FOR WIDENING PORTION, CENTER PORTION UNKNOWN. ABUTS FIXED-PLATES SIT BACK 150mm FROM FACE. PIERS APPEAR TO BE SLIDING PLATES @ PIER #1 & #3.
Temperature (deg. C)		14			
(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			6	6	HAIRLINE LONGITUDINAL CRACKS. MINOR RUST THROUGH FROM STEEL REBAR CHAIRS. Some leaching at South side of center spans.
Stains (Percent Area)		2			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CS, 4 Spans, Lengths(m): 8.5-8.5-8.5-8.5, A-Ident Number:)				
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				
Bearing Seats		6	6	
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		5	5	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		6	6	Minor honeycombing.
(Type : CONCRETE)				
Pier Shaft/Piles		6	6	Some exposed rebar @ west pier @ shaft- minor
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	Yes			Old timber piles and rebar
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Drop structure 150 m d/s.
(D/S Direction : S)				
Alignment		7	7	Canal
Bank Stability		7	7	
HWM (m below Top of Curb)	3.0			Canal waterline when running full.
Drift (Y/N)	No			
Slope Protection		5	5	
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2011	Patch curb void at South 100 mm3					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Repair erosion @ NW wingwall 1.5m3 Granular					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	75.6/74.3	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	16-Jul-2013		Previous Inspection Date	18-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							