

Bridge Inspection									
Bridge File Number	00313 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1990/1990				Lot No.	2			
Bridge or Town Name	COWLEY				Inspector Name	Garry Roberts			
Located Over	CROWNEST RIVER, 2.12.37, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	510:02 C1 4.137				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	28-Nov-2012			
Legal Land Location	SW SEC 33 TWP 7 RGE 1 W5M				Data Entry By	Kelsey Roberts			
Longitude, Latitude	-114:04:54, 49:35:54				Data Entry Date	03-Jan-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	CMA26				Review Date	06-Dec-2012			
Clear Roadway/Skew	9 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	270 / 2011 (A)				Dept. Review Date	08-Jan-2013			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	30								
Allowable Load (t):	Single	CS1 28		Semi	CS2 49		Train	CS3 62	
Design Loading:	CS750							----> On Critical Spans ---->Critical Member	
----> 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 req.								
Hazard Marker At Bridge (Y/N)	No								
Remarks									
Other Sign Types	Curve, 85km/hr, river ID								
Utilities (Located at)									
Utility Attachments									
Telephone	W. side of bridge.				Gas				
Power	West curb to P2.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Box beam rail (150 mm x 150 mm) I-Beam post @ 1800.				
Vertical Alignment			6	6					
Roadway Width (m)		9.500							
Approach Bump			6	7					
Guardrail (Y/N)		Yes							
Guardrail			7	7					
Length (m)		99.000							
Current Standard (Y/N)		Yes							
Termination Type		TURNDOWN							
Drainage			7	7					
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>CBC, 5 Spans, Lengths(m): 38-46-46-46-38, A-Ident Number: </b> )						
<b>Special Features</b>						
Special Feature			X	Under west curb @ pier #2. Water Monitoring Station - window broken		
(Type : )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0.0	0.0	0.0	0.0		
Wearing Surface			6	5	sealed transverse cracks- isolated small delams. Minor isolated potholes.	
(Material Type : <b>ACP</b> )						
(Thickness(mm) : <b>90</b> )						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			3	3	26 broken welds at south abut. fingers and sitting up close to 10mm.	
Temperature (deg. C)		-6				
(Expansion Type : <b>FINGER PLATES</b> )						
(Fixed Type : <b>FINGER PLATES</b> )						
Gap Size (mm)		Gap Location				
200		S. abut				
115		N. abut				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			7	7	Transverse cracks along both curbs - (approx 1.5 m) @ 0.3 mm wide.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		0				
Bridge Rail			8	8	10% have cracked/spalled pads - 50% repaired with Sika Flex Grout 1 A/B nut missing at NW corner post	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts			3	3		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			7	7		
(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>	0	0	0	0		
Girders			8	8	Narrow cracks @ outside of exteriors Only End spans seen and partial mid spans.	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : <b>4</b> )						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>CBC, 5 Spans, Lengths(m): 38-46-46-46-38, A-Ident Number: )</b>				
Diaphragms/Cross Frame		8	8	
Bearings		7	7	
Temperature (deg. C)	-6			
(Expansion Type : <b>POT BEARING</b> )				
(Fixed Type : <b>POT BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Efflorescence @ transverse cracks @ exterior.
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>7</b>	<b>7</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		8	8	
Wingwalls		7	7	curtain walls
Piles		N	N	Buried
Paint/Coating		7	7	
Abutment Stability		8	8	
Scour/Erosion		8	8	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				
Bearing Seats/Caps		8	8	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0:0:0</b> )				HWM gauge at P4
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		N	N	Too deep
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>8</b>	<b>8</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				Reservoir.
(D/S Direction : <b>E</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)	6.0			Drift on slopes, HWM gauge at P4.
Drift (Y/N)	No			
Slope Protection		7	7	Class I
(Type : <b>RIP RAP; RIP RAP</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>7</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Replace 1 missing 1" galv. nut					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Repair 26 broken finger welds					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>83.3/83.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>72.9/72.9</b>	Est. Repl. Yr	2060	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	28-Feb-2016		Previous Inspection Date	07-Sep-2009			
Inspection Cycle (Default) (months)	39						
Comment							