

Bridge Inspection									
Bridge File Number	08353 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1983/1983				Lot No.	1			
Bridge or Town Name	BLUESKY				Inspector Name	Russel Vanderschaaf			
Located Over	LEITH RIVER, 8.10.73, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	2:66 C1 12.037				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	10-Nov-2011			
Legal Land Location	SE SEC 1 TWP 82 RGE 2 W6M				Data Entry By	Lisa Fairhurst			
Longitude, Latitude	-118:09:31, 56:04:21				Data Entry Date	16-Dec-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA04				Review Date	12-Dec-2011			
Clear Roadway/Skew	12.4 /				Dept. Reviewer Name	Steve Pasquan			
AADT/Year	1,680 / 2010 (A)				Dept. Review Date	10-Jan-2012			
Road Classification	RAU-210-110				Follow-Up By				
Detour Length (km)	4								
Allowable Load (t):	Single	CS1 46 GIRDER	Semi	CS2 76 GIRDER	Train	CS3 108 GIRDER	----> On Critical Spans ---->Critical Member		
Design Loading:	CS750						----> 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)	Yes								
Remarks	South West mark mounted on wood post 0.6m West of curb.								
Other Sign Types	"Leith River (Little Burnt)" signs NE & SW								

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>				
Horizontal Alignment			6	6	Local road entrance 80 m SE and 60 m NW entrances, 80 m NE and 80m SW.				
Vertical Alignment			8	8					
Roadway Width (m)	10.800								
Approach Bump			5	6					
Guardrail (Y/N)	Yes								
Guardrail			3	6					
Length (m)	36.000								
Current Standard (Y/N)	Yes								
Termination Type	TURNED DOWN								
Drainage			4	5	Gully 10m x 0.5m x 0.8m along SE ditch.				
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : SMO, 3 Spans, Lengths(m): 8-8-8, A-Ident Number: )						
<b>Special Features</b>						
Special Feature			X			
(Type : )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Snow covered	
<b>Last</b>						
<b>Now</b>	90.0	0.0	0.0	0.0		
Wearing Surface				6	6	(Narrow grid pattern cracks likely following rebar. Medium cracks at piers.) - 8 Feb 2010
(Material Type : <b>CONCRETE</b> )						
(Thickness(mm) : <b>125</b> )						
Lateral Connection Problem (Y/N)		No				
Deck Top				N	N	Covered by concrete.
Deck Rideability				7	7	
Deck Joints				5	N	(NE buffer angle dented by plow 2.0m from curb 50% covered with ACP. NW buffer 90% covered with ACP.) - 8 Feb 2010 Snow covered
Bump (Y/N)		No				
Deck Drainage				5	5	No drains.
Drains Clogged (Y/N)						
Curbs/Median				7	6	Minor plow scrapes. Minor scaling beginning on fascia.
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		3				
Bridge Rail				7	6	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts				7	6	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating				7	6	
(Type : <b>GALVANIZED</b> )						
Sidewalk				X	X	
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	1		
Girders				4	3	All units have narrow longit cracks. Longit. crack on fascia of S1G1 through the entire girder . Girders underside stained @ connector pocket locations.  S3G10 spall within anchor zone (photo)
Last Complete Inspection Date		10-Nov-2011				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		1				
Lift or Connector Pocket Grouted (Y/N)		Yes				
(Number Of Girders : <b>33</b> )						
<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>					
(Extended Backwall Piles (Y/N) : <b>N</b> )					
(Extended Backwall Piles Spacing(mm) : )					
(Total Number of Caps/Corbels : <b>1:1</b> )					
Soil lost underneath caps & wingwalls					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	0	
Bearing Seats/Caps/Corbels				6	5
(Type : <b>CONCRETE</b> )					
(Depth(mm) : <b>770</b> )					
(Width(mm) : <b>500</b> )					
Backwalls/Breastwalls				N	N
Abutment 1 North corner settlement of 200 mm x 500mm deep					
Greatest Height (m)		1.50			
Wingwalls				5	5
Rebar exposed bottom of NW wingwall.					
(Total Number of Bearing Piles : <b>8:8</b> )					
8mm steel left on piles. Abutment 1.-					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	5	0	0	0	
<b>Now</b>	5	0	0	0	
Piles				4	4
Paint/Coating				5	4
Scaling and pitting rust beginning to cause loss of section.					
Abutment Stability				6	6
Settlement of 200 mm x 500mm deep Loss of fill material under caps.-					
Scour/Erosion				4	4
Erosion/settlement on abutments.					
<b>Piers/Bents</b>					
(Type : <b>PIER-COLUMN</b> )					
(Total Number of Caps/Corbels : <b>1:1</b> )					
Bearing Seats/Caps/Corbels Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	1	
Bearing Seats/Caps/Corbels				4	3
Pier 2 cap delaminating at pile spall at South end of pier 2. (300 x 350 x 100mm).					
Pier 1 cap 330 x 300mm delamination at pile 1.					
Pier 1 cap spall South end (450 x 200 x 450mm)rebar exposed at bottom.-photo					
(Type : <b>CONCRETE</b> )					
(Depth(mm) : <b>750;780</b> )					
(Width(mm) : <b>550</b> )					

Substructure						
Bridge Component				Last	Now	Explanation of Condition
(Total Number of Bearing Piles : <b>8:8</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Pier Shaft/Piles				6	6	
Greatest Height (m)		3.40				
Bracing/Struts/Sheathing				6	6	
Nose Plate				X	X	
Paint/Coating				4	4	Scaling and pitting rust occurring @ base of piles and braces.
(Colour Description : )						
(Colour Code : )						
Pier Stability				7	7	
Scour				7	6	
Debris (Y/N)		No				
<b>Substructure General Rating</b>				<b>4</b>	<b>4</b>	
Structure Usage						
				Last	Now	Explanation of Condition
<b>Channel</b>						
(U/S Direction : <b>N</b> )						
(D/S Direction : <b>S</b> )						
Alignment				5	5	Curves under bridge and at both u/s and d/s.
Bank Stability				6	7	
HWM (m below Top of Curb)		2.0				(HWM 19921028)
Drift (Y/N)		No				
Slope Protection				6	6	
(Type : <b>NATURAL</b> )						
Guidebank/Spurs				X	X	
Adequacy of Opening				7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )						
(Fish Compensation Measure 2 : <b>NONE</b> )						
<b>Channel General Rating</b>				<b>5</b>	<b>5</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Repair pier spalls					
OTHER ACTION							
OTHER ACTION	2012	S3 G10 repair spall					
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/38.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>65.5/64.0</b>	Est. Repl. Yr	2031	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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	10-Aug-2013		Previous Inspection Date	08-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							