

Bridge Inspection							
Bridge File Number	74222 -1 Bridge			Form Type	SG		
Year Built/Year Supstr	1955/1955			Lot No.	4		
Bridge or Town Name	HARDISTY			Inspector Name	Owen Salava		
Located Over	BATTLE RIVER, 5, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	13:16 C1 41.934			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	28-Jun-2012		
Legal Land Location	NE SEC 25 TWP 42 RGE 10 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-111:18:19, 52:39:06			Data Entry Date	15-Jul-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA16			Review Date	05-Jul-2012		
Clear Roadway/Skew	8.5 /			Dept. Reviewer Name	Andrew Smikles		
AADT/Year	1,610 / 2011 (A)			Dept. Review Date	19-Jul-2012		
Road Classification	RAU-211.8-110			Follow-Up By			
Detour Length (km)	35						
Allowable Load (t):	Single	CS1 42 GIRDER	Semi	CS2 57 GIRDER	Train	CS3 71 GIRDER	----> 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)	Yes							
Remarks								
Other Sign Types	River ID - missing.							

Utilities (Located at)			
Utility Attachments			
Telephone	Attached inside South girder & @ North & South r/w.	Gas	80m South.
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	At bottom of sag curve.
Vertical Alignment		6	6	
Roadway Width (m)	11.400			Type A. Curved section at NW. Minor dents and scrapes.
Approach Bump		6	6	
Guardrail (Y/N)	Yes			
Guardrail		6	6	
Length (m)	30.000			
Current Standard (Y/N)	Yes			
Termination Type	TURNED DOWN			
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>RB, 3 Spans, Lengths(m): 19.5-24.4-19.5, A-Ident Number: A0217-01</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>	0	0	0	0		
<b>Now</b>	0.0	0.0	0.0	0.0		
Wearing Surface			7	7		
(Material Type : <b>ACP - CONVENTIONAL CHIP SEAL COAT</b> )						
(Thickness(mm) : <b>90</b> )						
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			7	7		
Temperature (deg. C)		20				
(Expansion Type : <b>OTHER</b> )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
85		E. abut				
85		W. abut				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			5	5	Vertical cracks every 400mm on curbs.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		5				
Bridge Rail			7	7	Retrofit HSS 152x203 rail installed.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts			7	7		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			7	7		
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
<b>Girder/Beam</b>						
Cover Plate			7	7	Minor sag in bottom flanges, all spans - typical (photo).	
Flange			6	6		
Web			7	7		
Stiffeners			7	7		
Splice			7	7		
Weld			7	7		
Diaphragms/Cross Frame			7	7		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : <b>RB, 3 Spans, Lengths(m): 19.5-24.4-19.5, A-Ident Number: A0217-01</b> )				
Paint Condition		6	6	Spot rusting on outside web of exterior girders.
(Colour Description : <b>GREEN</b> )				
(Colour Code : <b>14193</b> )				
Touchup Required (Y/N)	No			
Bearings		5	5	Abutment ext bearings corroding.
Temperature (deg. C)	20			
(Expansion Type : <b>ROCKER BEARING</b> )				
(Fixed Type : <b>PINNED BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	5			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</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	Spall on SE parapet wall.
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		6	6	
<b>Piers/Bents</b>				
(Type : <b>PIER-SOLID</b> )				Vertical cracks in both piers - 1mm wide.
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	No nose plate on East pier. No paint on nose plate.
Paint/Coating		4	4	Unpainted, surface rust.
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		N	N	Muddy water.
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)		No		
Slope Protection (Type : <b>NATURAL; NATURAL</b> )		6	6	Some scattered Class I at E pier.
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							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>57.3/57.3</b>	Est. Repl. Yr	2040	Maint. Req. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)	Y						
Proposed Action	2007.04.06 Add to 2009 Rehab program. ACP overlay and patch membrane as required.						
Previous Inspector's Name	Owen Salava	Previous Assistant's Name					
Next Inspection Date	28-Mar-2014	Previous Inspection Date	31-Aug-2010				

Inspection Cycle (Default) (months)	21
Comment	