

Bridge Inspection										
Bridge File Number	73426 -1 Bridge				Form Type	SG				
Year Built/Year Supstr	1959/1959				Lot No.	1				
Bridge or Town Name	KEG RIVER				Inspector Name	Brian Pientsch				
Located Over	KEMP RIVER, 8.10.31.1, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	35:10 C1 29.568				Assistant Name	Russel Vanderschaaf				
Water Body Cl./Year					Assistant Class	BR CLS B				
Navigabil. Cl./Year					Inspection Date	08-Dec-2011				
Legal Land Location	NW SEC 28 TWP 99 RGE 22 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-117:32:59, 57:37:30				Data Entry Date	14-Dec-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA04				Review Date	13-Dec-2011				
Clear Roadway/Skew	11 / 0 deg.				Dept. Reviewer Name	Steve Pasquan				
AADT/Year	1,050 / 2010 (A)				Dept. Review Date	10-Jan-2012				
Road Classification	RAU-210-110				Follow-Up By					
Detour Length (km)	999									
Allowable Load (t):	Single		Semi		Train		----> 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	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 required								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									

Utilities (Located at)										
Utility Attachments										
Telephone	West r/w.				Gas					
Power	West r/w.				Municipal					
Others					Problem (Y/N)		No			
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Curve 500m south & north.				
Vertical Alignment			7	7					
Roadway Width (m)	10.500				Paving lip deteriorated @ South abutment SBL.				
Approach Bump			4	4					
Guardrail (Y/N)	Yes				Guardrail not connected to bridgerail. 1 cracked post @ SE and 1 missing splice bolt. Not thrie beam, not connected to parapet.-photos				
Guardrail			3	3					
Length (m)	65.000								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure								
Bridge Component		Last	Now	Explanation of Condition				
(Primary Span : RB, 1 Spans, Lengths(m): 30.5, A-Ident Number: A0305-01)								
Special Features								
Special Feature			3	Dwydag Rods Missing two bolts in anchor at south end of G4.				
(Type :)								
Special Feature			X					
(Type :)								
Wearing Surface/Deck Top Detail Ratings								
	N (%)	1 (%)	2 (%)	3 (%)	Partly sand/gravel covered.			
Last								
Now	10.0	0.0	0.0	0.0				
Wearing Surface				6	6			
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)								
(Thickness(mm) : 50)								
Deck Top			N	N				
Deck Rideability			7	7				
Deck Joints			3	3	Concrete spalled at A1 paving lip. Curb cover plate not properly recessed at SW & SE corners.-photos			
Temperature (deg. C)		-20						
(Expansion Type : TYPE 1 STRIP SEAL)								
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)))								
Gap Size (mm)		Gap Location						
80		Abutment 2						
50		Abutment 1						
Deck Drainage			6	6				
Drains Clogged (Y/N)		No						
Curbs/Median			5	4	West curbs have 40% scaling. All curb corners, heavily scaled.			
(Curb Type : Standard)								
Scaling (Percent Area)		45						
Bridge Rail			3	3	Missing 6 top rail bolts. Panel 9, East rail missing bolts at both ends. Some nuts not torqued down. Damaged threads shim plate washers welded under some nuts to shim. 3 nuts missing due to damaged threads on anchor bolts. Several with insufficient thread length. Sagging in both East and West rails.-photos			
(Type : GALVANIZED STEEL NON-STANDARD RAIL)								
Bridge Rail Posts			3	3				
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)								
Bridge Rail/Posts Coating			5	5				
(Type : GALVANIZED)								
Sidewalk			X	X				
Girder/Beam								
Cover Plate			3	3	3 cracked cover plate welds at ends. Cracked welds are tack welds at end of plate.-photo S1G6, S1G4 and S1G3			
Flange			7	7				
Web			7	7				
Stiffeners			X	X				
Splice			7	7	30 - 3/4" holes on outside girder west side.			
Weld			3	3				
Diaphragms/Cross Frame			7	7				

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 1 Spans, Lengths(m): 30.5, A-Ident Number: A0305-01)				
Paint Condition		4	3	Rusting along bottom flanges and at ends.
(Colour Description : GREEN)				
(Colour Code : 14090)				
Touchup Required (Y/N)	Yes			
Bearings		5	5	Bearing hinge bolt out 20mm @ SE corner.
Temperature (deg. C)	-20			
(Expansion Type : ROCKER BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		6	6	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		3	3	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		5	4	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(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	
Scour		X	X	
Debris (Y/N)	Yes			Approx 30 old piles in streambed.-photo
Substructure General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible. Drift caught on old piles, approx 50-100mm in dia.
Drift (Y/N)		Yes		
Slope Protection		7	X	
(Type : CONCRETE; RIP RAP)				
Guidebank/Spurs		X	7	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Repair post anchor bolts. Install 6 missing rail bolts/nuts.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE	2012	Touch-up girders.					
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Replace 1 approach post @ SE and 1 splice bolt, connect guardrail to parapet.					
OTHER ACTION							
OTHER ACTION	2012	Remove old piles in channel.					
OTHER ACTION	2012	Patch A1 paving lip.					
OTHER ACTION	2012	Install 2 missing dwydag anchor bolts.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	55.9/55.9	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor end welds on cover plates and monitor the taper welds as well.		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	Randy Bredo		Previous Assistant's Name	Bryce Clayton			

Next Inspection Date	08-Sep-2013	Previous Inspection Date	21-May-2009
Inspection Cycle (Default) (months)	21		
Comment			