

Bridge Inspection							
Bridge File Number	13625 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1968/1968			Lot No.	2		
Bridge or Town Name	KINUSO			Inspector Name	Brian Pientsch		
Located Over	ADAMS CREEK, 8.11.80.39.3, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	33:14 C1 32.772			Assistant Name	Russel Vanderschaaf		
Water Body Cl./Year				Assistant Class	BR CLS B		
Navigabil. Cl./Year				Inspection Date	12-Feb-2013		
Legal Land Location	SW SEC 9 TWP 72 RGE 9 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-115:20:05, 55:13:05			Data Entry Date	03-Apr-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA06			Review Date	03-Apr-2013		
Clear Roadway/Skew	9.1 /			Dept. Reviewer Name			
AADT/Year	770 / 2012 (A)			Dept. Review Date			
Road Classification	RAU-210-110			Follow-Up By			
Detour Length (km)	150						
Allowable Load (t):	Single	CS1 42 GIRDER	Semi	CS2 61 GIRDER	Train	CS3 87 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	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)	No							
Remarks	Not required.							
Other Sign Types	"Adams Creek" SB only - NB broken off, Bump Ahead both directions.							

Utilities (Located at)			
Utility Attachments			
Telephone	Possible Telus line on E curb.	Gas	
Power	4 wires East r/w.	Municipal	
Others	Benchmark at SE; geodetic BM at NE.	Problem (Y/N)	Yes
Remarks	Possible Telus line hanging from East curb.		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curve to North, limited sight distance.
Vertical Alignment		7	7	No passing either direction on bridge.
Roadway Width (m)	8.900			Roller coaster effect across approaches and bridge. ACP raveling next to joints.
Approach Bump		5	5	
Guardrail (Y/N)	Yes			2 damaged posts NE - photo. Rot in post SW - photo. Approach rail on South end set too low.
Guardrail		4	N	Not thrie beam.- 11-May-2011
Length (m)	22.800			
Current Standard (Y/N)	No			Snow covered
Termination Type	TURN DOWN			
Drainage		6	6	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 3 Spans, Lengths(m): 12.2-16.8-12.2, A-Ident Number:)					
Special Features					
Special Feature		7	7		
(Type : SUPERBOLT CONN)					
Special Feature		7	7		
(Type : UNDERSLUNG DIAPHR)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Partly snow covered.
Last	5	0	0	0	
Now	25.0				
Wearing Surface		7	4	Chipseal on concrete overlay.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 65)					
Lateral Connection Problem (Y/N)		No		Chipseal wearing off at CL of bridge.	
Deck Top		N	N		
Deck Rideability		5	5		
Deck Joints		4	3	Gland torn over N pier.	
Temperature (deg. C)		0			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
80		S. abut			
89		S. pier			
95		N. pier			
66		N. abut			
Deck Drainage		8	N	Snow covered.	
Drains Clogged (Y/N)		No			
Curbs/Median		4	N	4 curb construction joints on both curbs allow seepage onto girders. Curb spall with rebar exposed SP2G6 - photo. Several delams. Spall on S3G1 curb 0.4x0.26m.	
(Curb Type : Standard)					
Scaling (Percent Area)		1		Snow covered	
Bridge Rail		4	N	Single layer flexbeam.	
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts		4	N	Missing 1 splice bolt, bent - photo. Span 2 West side. Insufficient threads.	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		5	N	Rusty base plates.	
(Type : GALVANIZED)					
Sidewalk		X	X	SNow covered	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FC, 3 Spans, Lengths(m): 12.2-16.8-12.2, A-Ident Number:)				
Girders		5	5	Rust stains on girder legs under all curb construction joints. Typical cracking at end of girder at sole plate. Heavy staining on S2G6 East side near pier 1.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 18)				S2G5 near P2 rust stains with narrow cracking.
Diaphragms/Cross Frame		N	3	S2G6 diaphragm chipped and rebar exposed.
Bearings		6	6	Rusty channels in girders.
Temperature (deg. C)	0			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		6	6	
Stains (Percent Area)	1			
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/Caps		4	4	
(Type : CONCRETE)				
Backwalls/Breastwalls		4	5	Backwall scaling upto 25mm deep behind fibre board - photo. Large spall 0.35mx0.15 at G2 N exposed rebar.-photo-Repaired
Wingwalls		4	N	Scaling end of SE wingwall. Snow covered
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		5	5	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				Wide delam cracks North & South side of pier cap 1 and vertical and horizontal crack over pier 1 pile 5. Scaling West end P1 cap - photo. Delam cracks P2 East end. Delam cracks both sides North cap. Wide crack under S2G2 - G3 and G4-G6.
Bearing Seats/Caps		4	4	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5:5)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		7	7	
Nose Plate		7	7	
Paint/Coating		4	4	Peeling, scaling beyond red paint on 20% of area predominantly at bottom.
(Colour Description : RED)				
(Colour Code : 21310)				
Pier Stability		7	7	
Scour		5	5	
Debris (Y/N)	Yes			Drift caught on P2.

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : E)				
(D/S Direction : W)				
Alignment		6	6	
Bank Stability		4	4	Sluffed banks U/S and D/S.
HWM (m below Top of Curb)				(HWM appears to be 300mm below bottom girder legs. 95/02/16) Large drift on banks.
Drift (Y/N)	Yes			
Slope Protection		7	7	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		7	7	
Adequacy of Opening		5	5	Spur into channel NE corner.
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Add splice bolt. Repair approach rail posts. Attach South approach rail to bridgerail. carried over 11-May-2011					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
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	2013	Patch ACP along joints.					
OTHER ACTION	2013	Repair P2 gland in deck joint.					
OTHER ACTION	2013	Repair diaphragm S2G6.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	61.1/61.1	Est. Repl. Yr	2025	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	Russel Vanderschaaf			
Next Inspection Date	12-Nov-2014		Previous Inspection Date	11-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							