

Bridge Inspection									
Bridge File Number	70241 -2 Bridge				Form Type	SG			
Year Built/Year Supstr	2010/2010				Lot No.	2			
Bridge or Town Name	WATINO				Inspector Name	Brian Pientsch			
Located Over	SMOKY RIVER, 8.10.58, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	49:08 C1 16.395				Assistant Name	Russel Vanderschaaf			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	25-Jul-2011			
Legal Land Location	NE SEC 34 TWP 77 RGE 24 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-117:37:31, 55:43:02				Data Entry Date	05-Oct-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA03				Review Date	29-Sep-2011			
Clear Roadway/Skew	11 /				Dept. Reviewer Name	Steve Pasquan			
AADT/Year	890 / 2010 (A)				Dept. Review Date	18-Nov-2011			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	96								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	CS800					----> Primary Span			

Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Not req'd								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	"Steep Grade"; "Curve Ahead"								

Utilities (Located at)									
Utility Attachments									
Telephone	N side - services town of Watino				Gas				
Power	N side				Municipal				
Others					Problem (Y/N)		No		
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		5	5	Curve @ both ends, limited sight distance.					
Vertical Alignment		5	5	Stteep grade @ both ends.					
Roadway Width (m)		11.000							
Approach Bump		8	8						
Guardrail (Y/N)		Yes		W/ thrie beam transition.					
Guardrail		4	3	NW-64.1m; SW-66.5m; Se-57.5m;NE-80.4m.					
Length (m)		57.400		Split post SE approach-photo					
Current Standard (Y/N)		Yes							
Termination Type		Turn Down							
Drainage		4	3	Conc. trough at SE and NE corners only. Scour from high flow at NW corner where rock ditch drain enters water course-approx 4mWx6mLx4mD-photo					
Approach Road General Rating		5	5						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 5 Spans, Lengths(m): 52-63-63-63-52, A-Ident Number:)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last						
Now						
Wearing Surface			8	8		
(Material Type : ACP)						
(Thickness(mm) : 80)						
Deck Top			N	N	Conc. deck inspected prior to waterproofing/painting.	
Deck Rideability			9	9		
Deck Joints			8	8		
Temperature (deg. C)		22				
(Expansion Type : FINGER PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
112		W. abut.				
105		E. abut.				
Deck Drainage			9	9		
Drains Clogged (Y/N)		No				
Curbs/Median			7	7	Typical vertical narrow cracking.	
(Curb Type : None)						
Scaling (Percent Area)						
Bridge Rail			9	9		
(Type :)						
Bridge Rail Posts			9	9	Discolored(random)	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			8	8		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X		
Flange			9	9		
Web			9	9		
Stiffeners			9	9		
Splice			9	9		
Weld			9	9		
Diaphragms/Cross Frame			7	7	2nd bottom horiz. bracing from West abut. between G2/G3 distorted.- probably from construction.	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 5 Spans, Lengths(m): 52-63-63-63-52, A-Ident Number:)				
Paint Condition		X	X	Weathering steel
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		9	9	A1 and A2 P1,P2,P3,P4
Temperature (deg. C)	22			
(Expansion Type : POT BEARING)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	Random cracking with efflorescence staining.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		9	9	
(Type : CONCRETE)				
Backwalls/Breastwalls		9	9	
Wingwalls		9	9	
Piles		N	N	
Paint/Coating		9	9	Capseal/clear sealer
Abutment Stability		9	9	
Scour/Erosion		9	9	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		9	9	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5:5:5:5)				
Pier Shaft/Piles		9	9	
Bracing/Struts/Sheathing		X	X	
Nose Plate		9	9	
Paint/Coating		9	9	Nose plate-glavanized.
(Colour Description :)				
(Colour Code :)				
Pier Stability		9	9	
Scour		N	N	
Debris (Y/N)	No			Heavy drift at piers on occassion.
Substructure General Rating		9	9	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		5	5	Vertical cut banks u/s and d/s, not affecting bridge.
HWM (m below Top of Curb)	7.4			Erosion on banks and drift-25-Jul-2011
Drift (Y/N)	No			
Slope Protection		9	9	Entire East headslope and lower portion of West headslope.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		9	9	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	1 post SE approach					
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	2012	NW scour repair and rock ditch drain.					
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/88.9	Sufficiency Rating (Last/Now) (%)	70.2/70.1	Est. Repl. Yr	2085	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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	25-Apr-2013		Previous Inspection Date	24-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							