

Bridge Inspection									
Bridge File Number	75371 -1 Bridge				Form Type	SG			
Year Built/Year Supstr	1990/1990				Lot No.	2			
Bridge or Town Name	SWAN HILLS				Inspector Name	Brian Pientsch			
Located Over	FREEMAN RIVER, 8.11.95, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	32:12 C1 52.831				Assistant Name	Russel Vanderschaaf			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	11-Feb-2013			
Legal Land Location	NW SEC 26 TWP 64 RGE 10 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-115:24:03, 54:34:26				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	10 / 15 deg. (RHF)				Dept. Reviewer Name				
AADT/Year	2,160 / 2012 (A)				Dept. Review Date				
Road Classification	RAU-210-110				Follow-Up By				
Detour Length (km)	90								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> 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	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	"Freeman River" -SB only								

Utilities (Located at)									
Utility Attachments									
Telephone	3 wire East r/w.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		7	7	No passing NB due to start of crest curve, limiting sight distance.	
Vertical Alignment		6	6		
Roadway Width (m)	9.800				
Approach Bump		7	7		
Guardrail (Y/N)	Yes			Insufficient length.	
Guardrail		7	7		
Length (m)	38.000			Not FLEAT style end treatment.	
Current Standard (Y/N)	No				
Termination Type	Turned Down				
Drainage		7	7		
Approach Road General Rating		6	6		

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 3 Spans, Lengths(m): 16-22-16, A-Ident Number: A1146-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Partly snow covered.	
Last	5	0	0	0		
Now	30.0					
Wearing Surface			7	7		
(Material Type : ACP)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			4	N		
Temperature (deg. C)				Missing 1 bolt on curb of NW curb cover plate.-11-May-2011 Snow covered		
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
85			south			
66			north			
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			4	4	Flexural cracks, 400mm o.c. Pigmented sealer 30% peeled.	
(Curb Type : Standard)						
Scaling (Percent Area)		0			Missing grout 1st post NW & loose A/B nut - 11-May-2011 Snow covered	
Bridge Rail			7	7		
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts		4	N			
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating		7	7			
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			X	X		
Flange			7	7		
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 : WG, 3 Spans, Lengths(m): 16-22-16, A-Ident Number: A1146-01)				
Paint Condition		7	7	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		7	7	
Temperature (deg. C)	0			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
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		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		7	7	
Scour/Erosion		4	7	North abut fill settled 4mL corner.-Repaired
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5:5)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		7	7	
Nose Plate		X	X	
Paint/Coating		N	4	Paint peeling and some rust starting near waterline. Green.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Abraided gravel channel bed.
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		4	4	Type: Lock Blocks. Center of blocks settled and/or undermined on South headslope.- photo Several blocks displaced @ toe of South headslope.5mx5m area.- photo
(Type :)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(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	Tighten loose anchor bolt nut & grout post.- Carried over from 11-May-2011					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS	2013	Carried over from 11-May-2011					
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	2013	Replace missing bolt in cover plate.-Carried over from 11-May-2011					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	64.7/64.6	Est. Repl. Yr	2052	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor lock blocks erosion on South headslope.		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	11-Nov-2014		Previous Inspection Date	11-May-2011			
Inspection Cycle (Default) (months)	21						
Comment							