

Bridge Inspection									
Bridge File Number	02302 -1 Bridge				Form Type	SG			
Year Built/Year Supstr	1980/1980				Lot No.	4			
Bridge or Town Name	VILLENEUVE				Inspector Name	Eric Carcoux			
Located Over	STURGEON RIVER, 6.65, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	633:04 C1 30.503				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	09-Aug-2012			
Legal Land Location	NW SEC 10 TWP 54 RGE 26 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:45:42, 53:39:28				Data Entry Date	18-Sep-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Stew Hagan			
Contract Main. Area	CMA11				Review Date	05-Sep-2012			
Clear Roadway/Skew	9.8 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	3,150 / 2011 (A)				Dept. Review Date	09-Oct-2012			
Road Classification	RCU-209-110				Follow-Up By				
Detour Length (km)	5								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member		
Design Loading:	MS230						---> 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	85km/hr, 5.1m height restrictions for trestle. Curve.								
Utilities (Located at)									
Utility Attachments									
Telephone	South r/w.				Gas				
Power	2 lines north r/w. 1 OH line crossing West approach.				Municipal				
Others	4 Mast lights at West Intersection.				Problem (Y/N)		No		
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			4	4	Intersection at West end, hidden I/S RR overpass piers when approaching from the West. Curves both ways.				
Vertical Alignment			5	5					
Roadway Width (m)	10.100				Missing extra posts @ bridge.				
Approach Bump			6	6					
Guardrail (Y/N)	Yes								
Guardrail			7	7					
Length (m)	30.400								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			4	5	NW drainage deep gully 1 x 1 x 30m. Grassed, stable.				
Approach Road General Rating			4	4					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 3 Spans, Lengths(m): 10-20-10, A-Ident Number: A0874-01)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			9	8	
(Material Type : MIX TYPE 2 ACP)					
(Thickness(mm) : 90)					
Deck Top			N	N	
Deck Rideability			8	7	
Deck Joints			8	7	
Temperature (deg. C)		25			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
65		West abut.			
70		East abut.			
5					
Deck Drainage			4	5	
Drains Clogged (Y/N)					
Curbs/Median			7	6	
(Curb Type : JERSEY/F SHAPE)					
Scaling (Percent Area)		1			
Bridge Rail			X	X	
(Type :)					
Bridge Rail Posts			X	X	
(Type :)					
Bridge Rail/Posts Coating			X	X	
(Type :)					
Sidewalk			X	X	
Girder/Beam					
Cover Plate			X	X	
Flange			7	7	
Web			7	7	
Stiffeners			7	7	
Splice			8	7	
Weld			8	7	
Diaphragms/Cross Frame			7	7	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 10-20-10, A-Ident Number: A0874-01)				
Paint Condition		5	5	Rust from past joint leakage. Weathering Steel. East ends of girders and flanges have flaking.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		7	7	Coating on grout pads. Neoprene @ W abut only.
Temperature (deg. C)	25			
(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		6	6	Transverse cracking, some with efflorescent staining. Hairline map cracking near E abut.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		6	6	
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		5	5	
Abutment Stability		7	7	
Scour/Erosion		4	4	West headslope toe eroding around pier from drain trough-armoured with riprap. Toe of East slope sloughing
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	East pier open. West pier solid plate bracing.
Nose Plate		X	X	
Paint/Coating		6	6	Some graffiti. Brown paint. P2 piles exposed below top coat.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		4	4	1.2m vertical bank @ East pier, erosion and sloughing.
Debris (Y/N)	Yes			Old test pile projects 500mm above waterline at east bank. Pile cap not sealed.

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		5	5	
Bank Stability		5	5	
HWM (m below Top of Curb)				HWM not visible. (Deck to streambed 7.35 metre. 17/Nov/2005) (5.5m to ice. 98/06/01)
Drift (Y/N)	Yes			
Slope Protection		4	4	Heavy riprap on West bank. Class II. Toe of East slope has erosion and sloughing with no rock.
(Type : RIP RAP; NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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							
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							
Structural Condition Rating (Last/Now) (%)	72.2/72.2	Sufficiency Rating (Last/Now) (%)	53.6/53.6	Est. Repl. Yr	2042	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)							
Proposed Action							
Previous Inspector's Name	Arnold Assenheimer		Previous Assistant's Name	Wade Nanninga			
Next Inspection Date	09-Nov-2015		Previous Inspection Date	08-Jun-2011			
Inspection Cycle (Default) (months)	39						
Comment							