

Bridge Inspection									
Bridge File Number	78194 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1981/1981				Lot No.	2			
Bridge or Town Name	FT VERMILION				Inspector Name	Brian Pientsch			
Located Over	BEAR RIVER, 8.10.18.1, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	88:18 C1 0.034				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	18-Jun-2012			
Legal Land Location	SE SEC 6 TWP 107 RGE 11 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-115:49:05, 58:15:17				Data Entry Date	06-Nov-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA01				Review Date	01-Nov-2012			
Clear Roadway/Skew	10.1 /				Dept. Reviewer Name	David Morrison			
AADT/Year	310 / 2011 (A)				Dept. Review Date	15-Jan-2013			
Road Classification	RAU-210-110				Follow-Up By				
Detour Length (km)	50								
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	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	"Bear Creek" at SW & NE corner.								

Utilities (Located at)									
Utility Attachments									
Telephone	22 m east				Gas				
Power	23 m east - 1 wire.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		8	8	HORIZONTAL CURVE 500 M N. OF BRIDGE.					
Vertical Alignment		8	8						
Roadway Width (m)		11.800							
Approach Bump		7	7						
Guardrail (Y/N)		Yes		Insufficient number of approach transition posts-tyd all 4 corners(photo SW corner)					
Guardrail		9	4						
Length (m)		54.000							
Current Standard (Y/N)		No		SE & SW transition connection to bridgerail not bolted at top bolt.- photo					
Termination Type		TURNED DOWN ENDS							
Drainage		7	7						
Approach Road General Rating		8	8						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RM, 3 Spans, Lengths(m): 17-24-17, A-Ident Number:)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now						
Wearing Surface			9	8		
(Material Type : ACP)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			N	N	Paved.	
Temperature (deg. C)		14				
(Expansion Type :)						
(Fixed Type : BUFFER ANGLES)						
Gap Size (mm)		Gap Location				
Deck Drainage			7	7	No downspout on deck drains. Centre span only(photo)	
Drains Clogged (Y/N)		No				
Curbs/Median			7	7		
(Curb Type : Standard)						
Scaling (Percent Area)		2				
Bridge Rail			7	7		
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			7	7		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	7		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now						
Girders			5	5	Typical RM hairline longitudinal cracks on all end span girders. Hairline crack 8m long on bottom of S3G9 @ midspan - no staining.	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		1				
(Number Of Girders : 9)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RM, 3 Spans, Lengths(m): 17-24-17, A-Ident Number:)				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	14			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : NEOPRENE STRIP BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Minor chips on bottom edge corners of girders from construction.
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		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	TT
Wingwalls		5	5	TT
Piles		N	N	
Paint/Coating		6	6	Abut. seats covered with tar.
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
Narrow vertical and map cracking at pier ends.				
(Total Number of Bearing Piles : 8:8)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		7	7	Double sheet bracing welded between piles. Top coat has peeled off of the piles at bottom 200 mm
Nose Plate		X	X	
Paint/Coating		5	5	
(Colour Description : BLUE)				
(Colour Code : 15182)				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	Yes			Drift logs on S. headslope.

Substructure				
Bridge Component		Last	Now	Explanation of Condition
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		5	5	
HWM (m below Top of Curb)				HWM not visible
Drift (Y/N)	Yes			
Slope Protection		5	5	
(Type : NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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	Align and bolt approach transition rail to bridgerail.					
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	54.0/54.6	Est. Repl. Yr	2041	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracks.		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				
Next Inspection Date	18-Mar-2014		Previous Inspection Date	07-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							