

Bridge Inspection									
Bridge File Number	78305 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1986/1986				Lot No.	3			
Bridge or Town Name	SAKWATAMAU R				Inspector Name	Kris Bosters			
Located Over	SAKWATAMAU RIVER, 8.11.108, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	LOCAL ROAD				Assistant Name	Brian Cote			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	18-Apr-2013			
Legal Land Location	NE SEC 31 TWP 62 RGE 14 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-116:05:11, 54:24:43				Data Entry Date	01-May-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	UNDEFINED CMA				Review Date	29-Apr-2013			
Clear Roadway/Skew	8.8 /				Dept. Reviewer Name				
AADT/Year	60 / 2013 (E)				Dept. Review Date				
Road Classification	RLU-208G-90				Follow-Up By				
Detour Length (km)	60								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS23						----> 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									
Hazard Marker At Bridge (Y/N)		Yes							
Remarks		Missing 4 hazard markers.							
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power	3 lines East r/w. Crosses road 75m South of bridge.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	1 m gradual sag curve with limited				
Vertical Alignment			6	6					
Roadway Width (m)		7.900							
Approach Bump			6	6					
Guardrail (Y/N)		Yes							
Guardrail			3	3	3 T/D ends & 1st section are damaged NW, NE & SE - photo. Improper post space @ bridgerail. Guardrail post missing on SE side. Broken/damaged posts on SE & SW side. Suspect rot in some posts.				
Length (m)		15.200							
Current Standard (Y/N)		No							
Termination Type		Turn Down			Not thrie beam				
Drainage			4	4	Windrow along guardrail hampers drainage. Gravel to top of guardrail for first section on South side. Ponding at South approach.				
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 3 Spans, Lengths(m): 11-11-11, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	50				
Now	40.0				
Wearing Surface			X	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			6	5	Abrasion down c/l, pitting in high traffic area. Up to 10mm near buffer angles.
Deck Rideability			6	6	
Deck Joints			7	7	
Bump (Y/N)		No			
Deck Drainage			4	N	Windrow clogging drains. Snow along gutters.-02-May-2008
Drains Clogged (Y/N)		Yes			
Curbs/Median			7	7	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			6	4	Slight missalignment of rails @ joints. Damaged rail along West.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			3	3	Missing nut on post of East bridgerail.
(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					
Now					
Girders			4	5	Leakage and gravel staining on bottom of girders.
Last Complete Inspection Date		18-Apr-2013			
Cracking (Y/N)		No			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 24)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	5	

Substructure									
Bridge Component		Last	Now	Explanation of Condition					
Abutments									
(Extended Backwall Piles (Y/N) : N)									
(Extended Backwall Piles Spacing(mm) :)									
(Total Number of Caps/Corbels : 1:1)				Settlement of fill under cap on South abutment (100mm).					
Bearing Seats/Caps/Corbels Detail Ratings									
	N (count)	1 (count)	2 (count)				3 (count)		
Last									
Now									
Bearing Seats/Caps/Corbels			7				7		
(Type : CONCRETE)									
(Depth(mm) :)									
(Width(mm) :)									
Backwalls/Breastwalls			7				X		
Greatest Height (m)		1.20							
Wingwalls			7	7					
(Total Number of Bearing Piles : 8:8)									
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (count)					
Last									
Now	16								
Piles			5	N					
Paint/Coating			4	4					
Abutment Stability			6	6					
Scour/Erosion			4	3					
Sheet piling & drift causing erosion of South embankment - photo. Erosion at North abutment, 2m vertical. Cutbank condition has changed since last inspection.									
Piers/Bents									
(Type : PIER-COLUMN)									
(Total Number of Caps/Corbels : 1:1)									
Bearing Seats/Caps/Corbels Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (count)					
Last									
Now									
Bearing Seats/Caps/Corbels			6	6					
(Type : CONCRETE)									
(Depth(mm) :)									
(Width(mm) :)									
(Total Number of Bearing Piles : 6:6)									
Piles Detail Ratings									
	N (count)	1 (count)	2 (count)	3 (count)					
Last									
Now									
Pier Shaft/Piles			7	7					
Greatest Height (m)		4.90							
Bracing/Struts/Sheathing			7	7					
Nose Plate			X	X					
Paint/Coating			4	4					
Pitting near waterline on both piers. Paint peeling on pier caps.									
(Colour Description :)									
(Colour Code :)									

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		6	6	
Debris (Y/N)	Yes			Drift piled on old piles & sheet piling.
Substructure General Rating		5	5	GR carried fwd from 02-May-2008
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		6	4	Erosion of banks on North side U/S, under North span & @ NW corner - photo. Appears to have migrated since last inspection.
Bank Stability		4	3	Bank erosion to North u/s of bridge.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		6	3	
(Type : NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	3	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Missing nut on East bridgerail post, damaged section.					
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	2013	Sheet piling or 50m3 riprap, class 1.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Repair guardrail.					
OTHER ACTION	2013	Reinstall hazard markers at all corners.					
OTHER ACTION	2013	Remove windrows from deck and guardrail.					
OTHER ACTION	2013	Paint piers.					
Structural Condition Rating (Last/Now) (%)	50.0/55.6	Sufficiency Rating (Last/Now) (%)	59.7/61.0	Est. Repl. Yr	2031	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor bank erosion (take photos). Monitor crack on G1 and NW erosion.		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	Wade Nanninga		Previous Assistant's Name				
Next Inspection Date	18-Jan-2018		Previous Inspection Date	02-May-2008			
Inspection Cycle (Default) (months)	57						
Comment							