

Bridge Inspection									
Bridge File Number	86155 -1 Bridge				Form Type				
Year Built/Year Supstr	1983				Lot No.	2			
Bridge or Town Name	Pierre Greys lake Causeway				Inspector Name	Eric Carcoux			
Located Over	WATERCOURSE, WATERCRS-NI				Inspector Class	BR CLS A			
Located On	PEDESTRIAN TRAIL;TRAIL-PED				Assistant Name	Russel Vanderschaaf			
Water Body Cl./Year					Assistant Class	BR CLS B			
Navigabil. Cl./Year					Inspection Date	30-Aug-2011			
Legal Land Location	NW SEC 6 TWP 57 RGE 4 W6M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-118:35:06, 53:54:08				Data Entry Date	04-Oct-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Arnold Assenheimer			
Contract Main. Area	UNDEFINED CMA				Review Date	20-Sep-2011			
Clear Roadway/Skew	1.8 /				Dept. Reviewer Name	Steve Pasquan			
AADT/Year					Dept. Review Date	18-Nov-2011			
Road Classification					Follow-Up By				
Detour Length (km)	999								
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:							----> 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	Pedestrian bridge not required.								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not required.								
Other Sign Types	No Fires, Liquor Prohibited.								

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		X	X	Pedestrian access only.					
Vertical Alignment		X	X						
Roadway Width (m)	1.800								
Approach Bump		X	X						
Guardrail (Y/N)									
Guardrail		X	X						
Length (m)									
Current Standard (Y/N)									
Termination Type									
Drainage		7	5						
Approach Road General Rating		7	5						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : TT, 13 Spans, Lengths(m): 5.1-5-5-4.9-1.7-3.1-3.1-3.2-4.9-2.9-3.1-3-3.2, 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	0.0	0.0	0.0	2.0		
Wearing Surface/Deck Top			5	3	Sub deck planking, between 12 & 13 110mm gap.-photo	
(Material Type :)						
(Plank Thickness(mm) :)						
(Plank Width(mm) :)						
Deck Rideability			7	3	Between 12 & 13 110mm gap.-photo	
Wheel Guards			X	X		
(Curb Type :)						
(Type :)						
(Thickness(mm) :)						
(Width(mm) :)						
Bridge Rail			7	2	Steel post upper rail treated timber lower rail span 5-13. painted timber on span 1-4. 9 missing bolts on rail.-photo Span 6 missing 2x4 bridge rail South side.-photo Steel on span 5-13 painted timber on span 1-4. 10 missing bolts on post base.-photo Peeling and flaking.	
(Type :)						
Bridge Rail Posts			7	3		
(Type :)						
Bridge Rail/Posts Coating			4	4		
(Type :)						
(No. of Stringers :)			Most stringers have wide checks.			
Stringer Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	15	0	0	0		
Stringers			5	5	Limited access to view stringers due to low height on S. half and deep water on N. half.	
(Type :)						
(Width(mm) :)						
(Depth(mm) :)						
(Spacing(mm) :)						
Sub Deck/Deck Underside			7	N	Due to water, cannot access.	
(Material Type :)						
(Plank Thickness(mm) :)						
(Plank Width(mm) :)						
Defects (Percent Area)		0				
Span Alignment Problems						
Vertical (Y/N)		Yes	Steep slope of span 13 is hazardous especially if slippery.-photo			
Horizontal (Y/N)		No				
Superstructure General Rating			5	2		

Substructure							
Bridge Component		Last	Now	Explanation of Condition			
Abutments							
(Extended Backwall Piles (Y/N) : N)				Bridge originally had a spans with 200x150 ft stacked abutments. 4 additional spans were installed later and old S abutment is now piers. There is no abutment on the new south side of the bridge. Pier 5 (old abutment) was rated as an abutment.			
(Extended Backwall Piles Spacing(mm) :)							
(Total Number of Caps/Corbels : 7:7)				East abutment cap split, 4 signs of rot.-photo			
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)			3 (count)	
Last							
Now	7	0	0			1	
Bearing Seats/Caps/Corbels			X			3	
(Type : TREATED TIMBER)							
(Depth(mm) : 150)							
(Width(mm) : 200)							
Backwalls/Breastwalls			3			N	
Greatest Height (m)		1.00					
Wingwalls			3	5			
(Total Number of Bearing Piles : 0:0)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last	0	0	0	0			
Now	0	0	1	15			
Piles			X	X			
Paint/Coating			X	X			
Abutment Stability			3	5			
Scour/Erosion			7	7			
Piers/Bents							
(Type : PIER-COLUMN)				Spans 1-4 are on mud sills. Spans 5-13 are on piles.			
(Total Number of Caps/Corbels : 1:1:1:1:1:1:1:1:1:1)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
Last			2				
Now	0	0	1	0			
Bearing Seats/Caps/Corbels			2	2			
(Type :)							
(Depth(mm) : 200;150)							
(Width(mm) : 200)							
Cap at pier 12 is rolling 10 degrees and has poor bearing on piles. -photo							

Substructure						
Bridge Component				Last	Now	Explanation of Condition
(Total Number of Bearing Piles : 1:1:1:1:1:1:1:2:2:2:2)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		Most piles have wide checks P1 pier 6 is rotten and crushing.-photo P2 pier 12 is rotten, split and only bearing 50% on cap.-photo Possible rot at other piles sound hollow.-photo
Last	10		2			
Now	0	0	2	12		
Pier Shaft/Piles				2	2	
Greatest Height (m)		2.30				
Bracing/Struts/Sheathing				7	5	
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						
Pier Stability				2	2	P1 pier 6 is rotten and crushing, P2 pier 12 is rotten.
Scour				7	7	Split and only bearing 50% on cap.-photo
Debris (Y/N)		No				
Substructure General Rating				2	2	
Structure Usage						
				Last	Now	Explanation of Condition
Channel						
(U/S Direction :)						Not applicable, on lake.
(D/S Direction :)						
Alignment				9	9	
Bank Stability				7	5	
HWM (m below Top of Curb)						No HWM visible.
Drift (Y/N)		No				
Slope Protection				7	7	
(Type : NATURAL)						
Guidebank/Spurs				X	X	
Adequacy of Opening				9	9	
(Fish Compensation Measure 1 : NONE)						
(Fish Compensation Measure 2 : NONE)						
Channel General Rating				7	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
PATCH DECK							
REPLACE STRIP DECK							
REPLACE SUB DECK							
STRAIGHTEN/REPLACE MEMBERS	2012	Rebuild N. abutment & pier 6.					
WASHING							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Post rotten piles.					
OTHER ACTION	2012	Add traction matt to span 13.					
OTHER ACTION	2012	Assessment 1 level 2 coring.					
OTHER ACTION	2012	Paint rails.					
Structural Condition Rating (Last/Now) (%)	38.9/22.2	Sufficiency Rating (Last/Now) (%)	53.1/27.8	Est. Repl. Yr	2012	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Core piles and complete assessment before doing repairs. Design underway. Waiting on funding.		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	Stew Hagan		Previous Assistant's Name	Kris Bosters			
Next Inspection Date	30-Nov-2014		Previous Inspection Date	23-Oct-2007			
Inspection Cycle (Default) (months)	39						
Comment							