

Bridge Inspection										
Bridge File Number	76528 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1968/1968				Lot No.	2				
Bridge or Town Name	MUSKEG CABIN				Inspector Name	Brian Pientsch				
Located Over	MUSKEG RIVER, 8.10.58.31, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	40:34 C1 9.660				Assistant Name	Russel Vanderschaaf				
Water Body Cl./Year					Assistant Class	BR CLS B				
Navigabil. Cl./Year					Inspection Date	22-Aug-2012				
Legal Land Location	SW SEC 15 TWP 57 RGE 6 W6M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-118:48:57, 53:55:33				Data Entry Date	23-Oct-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA05				Review Date	22-Oct-2012				
Clear Roadway/Skew	9.1 / 0 deg.				Dept. Reviewer Name	David Morrison				
AADT/Year	1,590 / 2011 (A)				Dept. Review Date	15-Jan-2013				
Road Classification	RAU-209-110				Follow-Up By					
Detour Length (km)	75									
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member			
Design Loading:	HS20						----> 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									
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	Info., curve, Muskeg River								

Utilities (Located at)										
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE									
Telephone	South r/w / north r/w				Gas					
Power	North r/w - 4 wires				Municipal					
Others	AGT-CONDUIT ON BOTH CURBS				Problem (Y/N)	No				
Remarks	WSC GUAGE STA N. SIDE									

Approach Road									
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>				
Horizontal Alignment			7	7	No passing WB.				
Vertical Alignment			6	6	Crest curve to the west limits sight distance.				
Roadway Width (m)	8.000				Settlement on SE and SW approaches,bump at W joint.				
Approach Bump			7	4	SE has small void by approach slab.				
Guardrail (Y/N)	Yes				Insufficient length.				
Guardrail			5	5					
Length (m)	30.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			6	6					
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>PM, 3 Spans, Lengths(m): 12.2-15.2-12.2, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	20	0	0	0	
<b>Now</b>					
Wearing Surface			7	7	Efflorescent staining and rust staining from between S2-G1, G2 & G3 indicating seepage through grout key and candy cane bars rusting (photo).
(Material Type : <b>CONCRETE</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	3	2 core holes span 2 & 3 Northside.-photo
Deck Rideability			8	8	
Deck Joints			N	7	
Temperature (deg. C)		20			
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )					
Gap Size (mm)		Gap Location			
75		W. Abut			
85		W. Pier			
86		E. Pier			
75		E. Abut			
Deck Drainage			6	6	
Drains Clogged (Y/N)		No			
Curbs/Median			3	5	(N curb span 1, 200x50mm spall with void.-photo 2 girder scrapes N. curb S3. S1G10 spall & wide cracking on N side of curb (repaired). S3G1 spalling at base of 3 posts, two with rebar exposed (repaired).
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		3			
Bridge Rail			4	4	Double layer flexbeam. Missing 2 splice bolts. Minor collision damage at 2 locations S side. Retro fit blocks.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			3	4	
(Type : <b>POST STEEL;POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	0	
<b>Now</b>					
Girders			5	5	Small chips out of curb units on S 1side - probably from placing rock. Rust spots on S3,G10, S2G3 (photos).
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : <b>33</b> )					
Diaphragms/Cross Frame			X	X	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PM, 3 Spans, Lengths(m): 12.2-15.2-12.2, A-Ident Number: )				
Bearings		7	7	
Temperature (deg. C)	2			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	1			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>5</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		N	N	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		5	5	20% coating failure.
Abutment Stability		8	8	
Scour/Erosion		7	7	
<b>Piers/Bents</b>				
(Type : PIER-SOLID)				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		7	7	
Debris (Y/N)	Yes			6 steel H piles d/s 50 - 15mm diameter. Driftwood N. side of West headslope.
<b>Substructure General Rating</b>		<b>6</b>	<b>6</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)	2.1			Drift accumulation N. side of W. headslope.
Drift (Y/N)	Yes			
Slope Protection (Type : <b>RIP RAP; RIP RAP</b> )		7	7	
Guidebank/Spurs		N	7	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>6</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
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	2013	Fill core holes.					
OTHER ACTION	2013	Repair settlement at approaches and void at SE corner.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>61.1/61.1</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>63.6/63.6</b>	Est. Repl. Yr	2038	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor staining at S2G3 & S3G10.		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	22-May-2014		Previous Inspection Date	17-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							