

Bridge Inspection									
Bridge File Number	01721 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1958/1958				Lot No.	1			
Bridge or Town Name	NISKU				Inspector Name	Todd Warshawski			
Located Over	CLEARWATER CREEK, 6.95.2.5, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	814:02 C1 18.494				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	15-Mar-2012			
Legal Land Location	SW SEC 11 TWP 50 RGE 24 W4M				Data Entry By	Lisa Fairhurst			
Longitude, Latitude	-113:24:55, 53:18:02				Data Entry Date	19-Apr-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA11				Review Date	09-Apr-2012			
Clear Roadway/Skew	8.2 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	3,540 / 2011 (A)				Dept. Review Date	04-May-2012			
Road Classification	RCU-210-110				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 28 GIRDER		Semi	CS2 49 GIRDER		Train	CS3 62 GIRDER	
Design Loading:	HS20							----> On Critical Spans ---->Critical Member	
								----> 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	Set at 600 above curbs. Not in line with rails. Spring mounted.								
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	West & East r/w.				Gas				
Power	1 wire East r/w.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Farmer's house entrance is 25m South, East side. Field entrance 35m North, East side.				
Vertical Alignment			9	9					
Roadway Width (m)	10.000				All guardrail lengths are 8m. Only two posts, turndown +45 degree. NE post not connected. Insufficient posts.				
Approach Bump			7	7					
Guardrail (Y/N)	Yes								
Guardrail			3	3					
Length (m)	8.000								
Current Standard (Y/N)	No								
Termination Type	Turn Down								
Drainage			7	7					
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>PG, 3 Spans, Lengths(m): 6.1-6.1-6.1, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature		4	4	South span has been carbon fibre reinforced on all the girders. Carbon fibre has failed on most girders.	
(SType : <b>CARBON FIBRE</b> )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	30				
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface		5	4	(ACP does not extend to curbs, 100mm short. Wide cracks in asphalt between all units, ACP raveling G1/G2 S3. No connection.	
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	Yes				
Deck Top		N	N		
Deck Rideability		6	5		
Deck Joints		N	N	Covered by asphalt.	
Bump (Y/N)	No				
Deck Drainage		7	7		
Drains Clogged (Y/N)	No				
Curbs/Median		N	3	NW and SE post anchorage broken	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)	30				
Bridge Rail		4	4	Double layer. Incorrectly assembled. Missing splice bolts. Non std nuts. Several loose AB nuts.	
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts		N	4		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		6	6		
(Type : <b>GALVANIZED</b> )					
Sidewalk		X	X		
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>				9	
<b>Now</b>	0	0	0	12	
Girders		3	3	All girders have wide longitudinal cracking.  Spalls in/out of AZ in both legs with sound concrete in following: S1 - G2,3,5,6,8,9 S2 - G2,3,9 S3 - G2,6,9	
Last Complete Inspection Date	15-Mar-2012				
Cracking (Y/N)	Yes				
Spalling (Percent Area)	20				
Lift or Connector Pocket Grouted (Y/N)	No				
(Number Of Girders : <b>30</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		Yes		Pier 2 is 15mm low. Correction made in ACP overlay	
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>		<b>3</b>	<b>3</b>		

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : <b>Y</b> )						
(Extended Backwall Piles Spacing(mm) : <b>1500</b> )						
(Total Number of Caps/Corbels : <b>1:1</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Coring looks to have been recently completed. No ratings noted on caps.	
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				5	5	
(Type : <b>TREATED TIMBER</b> )						
(Depth(mm) : <b>300</b> )						
(Width(mm) : <b>300</b> )						
Backwalls/Breastwalls				5	5	
Greatest Height (m)		2.10				
Wingwalls				N	4	Tin top damage NW. Broken planks on SE
(Total Number of Bearing Piles : <b>7:7</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	AB2 - P1 split with failed banding	
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Piles				4	4	
Paint/Coating				X	X	
Abutment Stability				5	5	
Scour/Erosion				6	5	
<b>Piers/Bents</b>						
(Type : <b>PIER-COLUMN</b> )						
(Total Number of Caps/Corbels : <b>1:1</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Pier 2 - P1 split Wide checks on several piles	
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				5	5	
(Type : <b>TREATED TIMBER</b> )						
(Depth(mm) : <b>300</b> )						
(Width(mm) : <b>350</b> )						
(Total Number of Bearing Piles : <b>7:7</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Pier 2 - P1 split Wide checks on several piles	
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Pier Shaft/Piles				6	4	
Greatest Height (m)		3.50				
Bracing/Struts/Sheathing				4	4	2 wooden floor joists used as struts on span 1
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description : )						
(Colour Code : )						
Pier Stability				6	6	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		6	6	
Debris (Y/N)	Yes			
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>E</b> )				
(D/S Direction : <b>W</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		N	5	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Assess for repairs/replacements					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>38.9/38.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>49.4/50.0</b>	Est. Repl. Yr	2012	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Reduce inspection cycle to 12 months until replaced		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	Jason Saly		Previous Assistant's Name	Bryce Clayton			
Next Inspection Date	15-Jun-2015		Previous Inspection Date	12-Dec-2008			
Inspection Cycle (Default) (months)	39						
Comment							