

Bridge Inspection											
Bridge File Number	08949 -1 Bridge				Form Type	PCS					
Year Built/Year Supstr	1979/1979				Lot No.	2					
Bridge or Town Name	NISKU				Inspector Name	Todd Warshawski					
Located Over	BLACKMUD CREEK, 6.95.2, WATERCRS-ST				Inspector Class	BR CLS B					
Located On	625:02 C1 3.728				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	15-Mar-2012					
Legal Land Location	SE SEC 30 TWP 50 RGE 24 W4M				Data Entry By	Lisa Fairhurst					
Longitude, Latitude	-113:29:34, 53:20:16				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	10.1 / 15 deg. (RHF)				Dept. Reviewer Name	Brent Herrick					
AADT/Year	6,590 / 2011 (A)				Dept. Review Date	04-May-2012					
Road Classification	RCU-209-110				Follow-Up By						
Detour Length (km)	10										
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	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		Bridge plaque SW & NE.							

Utilities (Located at)										
Utility Attachments										
Telephone	Goes through South curb units.				Gas					
Power	3 wires 18m North of c/l.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	Farm entrances East & West. Int road East, hill to the west, adequate sight distances.				
Vertical Alignment			7	7					
Roadway Width (m)		9.300			Improper cap on NW turn down end. Minor strike damage on NW and SE, still functional				
Approach Bump			5	5					
Guardrail (Y/N)		Yes							
Guardrail			4	4					
Length (m)		42.000							
Current Standard (Y/N)		No							
Termination Type		Turn Down							
Drainage			6	4	Erosion along edge of roadway at 3 corners				
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>SM, 3 Spans, Lengths(m): 11-11-11, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X	(Water level to top of deck 5.7m. Streambed to top of deck 6.6m. 06/Oct/2005)	
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface				5	4
(Material Type : <b>ACP</b> )				Wide cracks in ACP, potholes at pier joints Horizontal span alignment and corrosion stains below external girders.	
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		Yes			
Deck Top			N	N	Paved over.
Deck Rideability			7	5	
Deck Joints			N	N	Paved over.
Bump (Y/N)		Yes			
Deck Drainage			5	5	No deck drains
Drains Clogged (Y/N)					
Curbs/Median			N	5	Surface spalls and cracks
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		10			
Bridge Rail			7	7	Minor spall near sceond post on SW - photo
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			7	5	
(Type : <b>POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	0	
Girders				5	5
Last Complete Inspection Date		15-Mar-2012		S3 G1 has narrow longitudinal crack at c/l underside - photo Typical hairline cracks at girder ends on curb units	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>27</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No		S1, S2 & S3 all out of alignment by approx 25mm as noted South side.	
Horizontal (Y/N)		Yes			
<b>Superstructure General Rating</b>			<b>5</b>	<b>5</b>	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : )						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				7	6	
(Type : <b>CONCRETE</b> )						
(Depth(mm) : )						
(Width(mm) : )						
Backwalls/Breastwalls			X	5		
Greatest Height (m)		1.00				
Wingwalls			5	6		
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	100					
<b>Now</b>	100	0	0	0		
Piles				N	N	
Paint/Coating				N	N	
Abutment Stability				5	6	
Scour/Erosion				7	6	
<b>Piers/Bents</b>						
(Type : <b>PIER-COLUMN</b> )						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				4	4	
(Type : <b>CONCRETE</b> )						
(Depth(mm) : 600)						
(Width(mm) : 500)						
(Total Number of Bearing Piles : 6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Pier Shaft/Piles				7	7	
Greatest Height (m)		4.90				
Bracing/Struts/Sheathing				7	7	
Nose Plate				X	X	
Paint/Coating				4	4	
(Colour Description : )						
(Colour Code : )						
Pier Stability				7	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		7	7	
Debris (Y/N)	Yes			Old piles.
<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>N</b> )				
(D/S Direction : <b>S</b> )				
Alignment		8	8	
Bank Stability		N	8	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		N	6	
(Type : <b>RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>8</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Relap NW approach rail					
SEAL CURBS							
PATCH DECK	2012	Pothole/corrosion repairs and seal coat deck					
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2012	Clean bridge					
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	Replace 10 guardrail posts and four flexbeams.Add fill at 3 corners					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/50.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>58.4/53.9</b>	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor spalls/deterioration of pier caps		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	Jacob Oresile		Previous Assistant's Name				
Next Inspection Date	15-Jun-2015		Previous Inspection Date	03-Feb-2009			
Inspection Cycle (Default) (months)	39						
Comment							