

Bridge Inspection							
Bridge File Number	73159 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1962/1962			Lot No.	1		
Bridge or Town Name	SUNDRE			Inspector Name	Garry Roberts		
Located Over	TRIBUTARY TO YARA CK, 3.111.1, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	734:12 C1 6.769			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	07-Mar-2013		
Legal Land Location	NE SEC 24 TWP 31 RGE 10 W5M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-115:17:13, 51:40:36			Data Entry Date	17-Apr-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA18			Review Date	24-Mar-2013		
Clear Roadway/Skew	6.4 / 0 deg.			Dept. Reviewer Name	Chris Black		
AADT/Year	100 / 2012 (A)			Dept. Review Date	22-Apr-2013		
Road Classification	RCU-208G-90			Follow-Up By			
Detour Length (km)	197						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 65 GIRDER	---> 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	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 requires.							
Hazard Marker At Bridge (Y/N)	Yes							
Remarks	Higher than standard.							
Other Sign Types	"Yara Creek"							

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

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		4	5	Curve 200m N. Curve and grade to S.
Vertical Alignment		5	6	
Roadway Width (m)	6.000			
Approach Bump		5	5	
Guardrail (Y/N)	No			
Guardrail		X	X	
Length (m)				
Current Standard (Y/N)				
Termination Type				
Drainage		7	5	
<b>Approach Road General Rating</b>		<b>4</b>	<b>5</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>HC, 1 Spans, Lengths(m): 6.1, 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 (%)	Snow and gravel covered.
<b>Last</b>	100	0	0	0	
<b>Now</b>	100.0	0.0	0.0	0.0	
Wearing Surface			X	X	
(Material Type : )					
(Thickness(mm) : )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	(Buffer angles. 29Nov2010) - Snow and gravel covered.
Bump (Y/N)		No			
Deck Drainage			N	5	3 of 4 drains open; rock in NW but still drains.
Drains Clogged (Y/N)		No			
Curbs/Median			N	6	Shovelled curbs to inspect; minor spall at NE fascia.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		2			
Bridge Rail			4	4	Corrugated steel; modified single layer. Improper lap at SW, NE & middle W.
(Type : <b>STEEL NON-STANDARD RAIL</b> )					
Bridge Rail Posts			N	4	1 anchor bolt nut not fully torqued, P2 at E curb.
(Type : <b>POST STEEL;POST STEEL</b> )					
Bridge Rail/Posts Coating			3	4	Paint is failing over galvanizing but galvanizing on rail is good. Posts are painted with 20% paint failure.
(Type : <b>PAINT</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	1	0	
<b>Now</b>	0	0	0	2	
Girders			2	3	G7 has wide cracks & spalls in AZ. G9 has crack extending from diaphragm into both legs (not shear crack; and, also cracked and staining at top of W leg to deck over 3.2m length. G2,3 have wide cracks in AZ in sound concrete. G4,6 have minor spall in AZ from low cover. Not able to confirm if pockets grouted.
Last Complete Inspection Date		07-Mar-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		3			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : <b>9</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>2</b>	<b>3</b>	

Substructure							
Bridge Component		Last	Now	Explanation of Condition			
<b>Abutments</b>							
(Extended Backwall Piles (Y/N) : Y)							
(Extended Backwall Piles Spacing(mm) : 700)							
(Total Number of Caps/Corbels : 3:3)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>	0	0	0	0			
<b>Now</b>	0	0	0	0			
Bearing Seats/Caps/Corbels				5	4	Caps cored 07Mar2013. Beginning rot in 1 core only at E end fo S subcap.	
(Type : TREATED TIMBER)							
(Depth(mm) : 305)							
(Width(mm) : 305)							
Backwalls/Breastwalls				5	6	Could not confirm height due to ice.	
Greatest Height (m)		2.60					
Wingwalls				5	5		
(Total Number of Bearing Piles : 9:6)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>	0	0	0	0			
<b>Now</b>	0	0	0	0			
Piles				5	4	S abut, 2 - 300 x 300 pile stub repairs at P2, P5. 2 original piles left in place btwn repair blocks. N abut piles in concrete footing.	
Paint/Coating							
Abutment Stability				7	7		
Scour/Erosion				N	N	Ice in channel.	
<b>Piers/Bents</b>							
(Type : )							
(Total Number of Caps/Corbels : )							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>							
<b>Now</b>							
Bearing Seats/Caps/Corbels				X	X		
(Type : )							
(Depth(mm) : )							
(Width(mm) : )							
(Total Number of Bearing Piles : )							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>							
<b>Now</b>							
Pier Shaft/Piles				X	X		
Greatest Height (m)							
Bracing/Struts/Sheathing				X	X		
Nose Plate				X	X		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description : )				
(Colour Code : )				
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</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		5	5	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		7	7	Partially snow covered. Rock extends along NE shoulder.
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	5	Channel is wider than bridge, but no visible problems.
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>5</b>	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL	2016	Repair 3 improper laps; torque 1 anchor bolt nut.								
SEAL CURBS										
PATCH DECK	2013	Grout lift and connector pockets, if not yet done.								
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	2016	Replace G7 & 9 or monitor.								
OTHER ACTION	2013	Remove rock from NW drain.								
OTHER ACTION										
OTHER ACTION										
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>38.9/38.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>44.2/47.4</b>	<b>Est. Repl. Yr</b>	<b>2025</b>	<b>Maint. Req. (Y/N)</b>	<b>Yes</b>			
Special Comments for Next Inspection	Department Comments									
Maintenance Reviewed By	Date					<b>Estimated Total</b>	<b>0</b>			
Proposed Long-Term Strategy	2003.05.30 Monitor normal BIM. Girder cracking is curb unit. Bridge should be good until 2012.									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Owen Salava	Previous Assistant's Name								
Next Inspection Date	07-Mar-2016	Previous Inspection Date	29-Nov-2010							
Inspection Cycle (Modified) (months)	36									
Comment										

**Maintenance Recommendations**

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2016	Repair 3 improper laps; torque 1 anchor bolt nut.				
SEAL CURBS						
PATCH DECK	2013	Grout lift and connector pockets, if not yet done.				
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	2016	Replace G7 & 9 or monitor.				
OTHER ACTION	2013	Remove rock from NW drain.				
OTHER ACTION						
OTHER ACTION						

<b>Structural Condition Rating (Last/Now) (%)</b>	<b>38.9/38.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>44.2/47.4</b>	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
---	------------------	--	------------------	---------------	------	-------------------	-----

Special Comments for Next Inspection		Department Comments	
--------------------------------------	--	---------------------	--

Maintenance Reviewed By		Date		Estimated Total	0
Proposed Long-Term Strategy	2003.05.30 Monitor normal BIM. Girder cracking is curb unit. Bridge should be good until 2012.				
On 3-Year Program (Y/N)					
Proposed Action					
Previous Inspector's Name	Owen Salava	Previous Assistant's Name			
Next Inspection Date	07-Mar-2016	Previous Inspection Date	29-Nov-2010		

Inspection Cycle (Modified) (months)	36
Comment	