

Bridge Culvert Inspection				
Bridge File Number	71661 -1 Bridge Culvert		Form Type	CUL1
Year Built	1961		Lot No.	4
Bridge or Town Name	TRIANGLE		Inspector Name	Brian Pientsch
Located Over	NICHOLLS CREEK, 8.10.58.7.13, WATERCRS-ST		Inspector Class	BR CLS A
Located On	747:02 C1 35.218		Assistant Name	Lisbeth Medina
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	26-Jan-2011
Legal Land Location	SW SEC 9 TWP 74 RGE 19 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-116:52:18, 55:23:37		Data Entry Date	01-Mar-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA06		Review Date	22-Feb-2011
Clear Roadway/Skew	9.1 /		Dept. Reviewer Name	Steve Pasquan
AADT/Year	520 / 2010 (A)		Dept. Review Date	15-Nov-2011
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	16			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1724	1901	SPE	46.3	152X51	3.5	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone		Gas	
Power	2 wire o/h along East ditch.		Municipal
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	
Vertical Alignment		8	8	
Roadway Width (m)	9.000			
Embankment		7	7	
Sideslope ( __:1)	3.5			
(Height of Cover(m) : 4)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>7</b>	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	5	Rate based on 30% visibility. Minor dent on South side of bevel.
Heaving (mm)	550			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	400			
Scour Protection		5	5	Rock washed into culvert.
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>5</b>	<b>5</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE)				
Barrel Last Accessible Date	26-Jan-2011			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	
Measured Rise (mm)	1860			
Measured At Ring No.	9			
Sag (mm)	41			
Percent Sag	3			
Sidewall		7	7	
Measured Span (mm)	1768			
Measured At Ring No.	9			
Deflection (mm)	44			
Percent Deflection	3			
Floor		6	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	0			
Longitudinal Seams		7	6	
Total No. of Cracked Rings	0			1N stagger
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	Pitting of floor 400mm wide. Alkaline deposits through bolts.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE)				
Fish Passage Adequacy		4	4	U/S bevel heaved.
Baffle		X	X	
(Type : )				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>7</b>	<b>6</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)		STEEL		
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		5	5	Rate based on 30% visibility
Heaving (mm)	25			
Invert Above/Below Stream Bed		ABOVE		
Above/Below (mm)	0			
Scour Protection		7	7	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		7	7	
Beavers (Y/N)		No		
<b>Downstream End General Rating</b>		<b>5</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		6	6	
Bank Stability		6	6	Small size-23-Oct-2007 Cutting present-23-Oct-2007
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)		No		
Channel Bottom Degrading/Aggrading		DEGRADING		
Beavers (Y/N)		No		
(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 #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>65.0/60.3</b>	Est. Repl. Yr	2020	Maint. Req'd. (Y/N)	No
Special Comments for Next Inspection			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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	26-Apr-2014		Previous Inspection Date	23-Oct-2007			
Inspection Cycle (Default) (months)	39						
Comment							