

Bridge Culvert Inspection			
Bridge File Number	01911 -1 Bridge Culvert	Form Type	CUL1
Year Built	1974	Lot No.	4
Bridge or Town Name	SIMON	Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO CADOTTE RIVER, 8.10.47.8, WATERCRS-ST	Inspector Class	BR CLS A
Located On	986:02 C1 34.065	Assistant Name	Clem Guenette
Water Body Cl./Year		Assistant Class	BR CLS B
Navigabil. Cl./Year		Inspection Date	12-Mar-2013
Legal Land Location	SW SEC 32 TWP 86 RGE 17 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-116:39:26, 56:29:40	Data Entry Date	05-Apr-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA02	Review Date	03-Apr-2013
Clear Roadway/Skew	9.9 / -20 deg. (LHF)	Dept. Reviewer Name	
AADT/Year	1,120 / 2012 (A)	Dept. Review Date	
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	135		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2240	2027	SPE	73.2	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone	buried cable along S row.	Gas	
Power	1 wire o/h along South ditch.	Municipal	
Others		Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Passing both directions.
Vertical Alignment		7	7	Slight sag curve.
Roadway Width (m)	9.900			
Embankment		7	7	
Sideslope ( __:1)	3.0			
(Height of Cover(m) : 10)				
Guardrail (Y/N)	Yes			
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>7</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	NONE			
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		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Couldn't tell due to snow cover.
Above/Below (mm)	1000			
Scour Protection		4	4	Scour around both sides of barrel, some slumping starting.
(Type : <b>NONE</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		4	4	Scour around both sides of barrel.
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>4</b>	<b>4</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2240, Rise (mm): 2027, Type: SPE)				
Barrel Last Accessible Date				Viewed from u/s end, ice 0.8m from top, at u/s end. D/S end submerged in snow.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		N	N	(Est. - 20020810)
Measured Rise (mm)				
Measured At Ring No.				What was visible looks adequate.
Sag (mm)	100			
Percent Sag				
Sidewall		N	N	(Est. - 20020810)
Measured Span (mm)				
Measured At Ring No.				What was visible looks adequate.
Deflection (mm)	100			
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)				
Longitudinal Seams		N	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		N	N	Pitting rust 360 deg. in visible areas.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2240, Rise (mm): 2027, Type: SPE)				
Ponding (Y/N)	Yes			1.5m deep.
Fish Passage Adequacy		4	4	Barrel flows full.
Baffle		X	X	
(Type : )				
Waterway Adequacy		4	4	Ice to 0.8m from crown, 0.5m from crown d/s.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>N</b>	<b>N</b>	G.R. was 6 date unknown-09-Oct-2009
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		D/S bevel completely submerged in snow.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		N	N	Snow covered.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	2			
Scour Protection		N	N	Snow covered.
(Type : <b>NONE</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		N	N	Eroding around edges from ponding-09-Oct-2009 Snow covered.
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>N</b>	<b>N</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		6	5	Water turns 90 degrees @ u/s end.
Bank Stability		7	7	
HWM (m below Top of Culvert)	0.0			Grass caught in bolts in roof.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
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>5</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>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>41.3/40.4</b>	Est. Repl. Yr	2019	Maint. Reqd. (Y/N)	No
Special Comments for Next Inspection	This barrel has been inaccessible for 3 inspections, however shape looks adequate and dewatering ins not recommended.		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	Lisbeth Medina			
Next Inspection Date	12-Jun-2016		Previous Inspection Date	04-Apr-2011			
Inspection Cycle (Default) (months)	39						
Comment							