

Bridge Culvert Inspection			
Bridge File Number	74829 -1 Bridge Culvert	Form Type	CUL1
Year Built	1980	Lot No.	4
Bridge or Town Name	GUY	Inspector Name	Brian Pientsch
Located Over	CLOUSTON CREEK, 8.10.58.7.8, WATERCRS-ST	Inspector Class	BR CLS A
Located On	676:04 C1 25.915	Assistant Name	Lisbeth Medina
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	02-Feb-2011
Legal Land Location	SW SEC 13 TWP 74 RGE 22 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:15:19, 55:24:13	Data Entry Date	01-Mar-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA03	Review Date	22-Feb-2011
Clear Roadway/Skew	13 /	Dept. Reviewer Name	Steve Pasquan
AADT/Year	190 / 2010 (A)	Dept. Review Date	15-Nov-2011
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	30		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	5840	6450	SPE	68.9	152X51	5.0	ELLIPSE
Special Features								
Special Features Comment	5% VE							

**Utilities (Located at)**

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	No Passing, both lanes.Bottom of sag.
Vertical Alignment		5	5	(EMBANKMENT IS SLIDING ON NORTH SIDE AND ON SOUTH SIDE - 00/06/08). Ditch scour SE 2.0m x 5.0m x 30m.
Roadway Width (m)	9.000			
Embankment		4	4	(EMBANKMENT IS SLIDING ON NORTH SIDE AND ON SOUTH SIDE - 00/06/08). Ditch scour SW 2.0m x 5.0m x 30m.
Sideslope (__:1)	2.5			
(Height of Cover(m) : 7.5)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>5</b>	<b>5</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		5	5	29mm wide crack at crown.
Collar		6	5	Wide cracks on East side. Rated based on 50% visibility.
Wingwalls		X	X	
(Shape : )				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		6	N	Grassed over-28-Oct-2007
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		6	N	Snow covered.
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>5</b>	<b>5</b>	GR carried forward.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5840, Rise (mm): 6450, Type: SPE)</b>				
Barrel Last Accessible Date	02-Feb-2011			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		8	8	
Measured Rise (mm)				Measurements not taken due to ice on floor.
Measured At Ring No.				
Sag (mm)	40			
Percent Sag				
Sidewall		8	8	
Measured Span (mm)	5900			Construction damage at 3 o'clock in ring 1 and 2.
Measured At Ring No.	9			
Deflection (mm)	60			
Percent Deflection	1			
Floor		N	N	
Bulge (mm)				Floor under ice.
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	8	
Separation (mm)	0			
Longitudinal Seams		N	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				1N Stagger.
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	6	
Corrosion By Soil (Y/N)	No			Superficial rust above ice line.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5840, Rise (mm): 6450, Type: SPE)				
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		N	N	
(Type : )				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>8</b>	<b>7</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		5	5	Wide vertical crack at 12 o'clock.
Collar		5	N	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		N	N	
Bevel End		5	5	West side bent during construction.
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			23-Oct-2007
Above/Below (mm)	400			
Scour Protection		6	N	Silt and grassed over.23-Oct-2007 Under snow
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		6	N	Under snow
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>5</b>	<b>5</b>	GR carried forward.
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		7	7	
Bank Stability		5	5	Sloughing visible both sides.
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			Dam 20m u/s.
Beavers (Y/N)	Yes			

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>7</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>88.9/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>80.1/76.2</b>	Est. Repl. Yr	2026	Maint. Req. (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	02-May-2014		Previous Inspection Date	23-Oct-2007			
Inspection Cycle (Default) (months)	39						
Comment							