

Bridge Culvert Inspection				
Bridge File Number	86167 -1 Bridge Culvert		Form Type	CUL1
Year Built	2010		Lot No.	4
Bridge or Town Name			Inspector Name	Brian Pientsch
Located Over	WATERCOURSE, WATERCRS-NI		Inspector Class	BR CLS A
Located On	43:02 R1 16.907;43:02 L1 16.883		Assistant Name	Brian Cote
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	04-Jul-2011
Legal Land Location	NW SEC 20 TWP 71 RGE 8 W6M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-119:12:10, 55:10:14		Data Entry Date	15-Aug-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA05		Review Date	13-Jul-2011
Clear Roadway/Skew	13.2 / 30 deg. (RHF)		Dept. Reviewer Name	Steve Pasquan
AADT/Year	7,330 / 2010 (A)		Dept. Review Date	16-Nov-2011
Road Classification	RAD-412.4-120		Follow-Up By	
Detour Length (km)				

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	1600	MP	95.75	125X26	2.8	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments				
Telephone			Gas	
Power	North of service road		Municipal	
Others			Problem (Y/N)	No
Remarks				

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Hwy 724 South intersection 100m W.
Vertical Alignment		8	8	
Roadway Width (m)	13.150			
Embankment		9	9	
Sideslope ( _ :1)	6.0			
(Height of Cover(m) : 1.8)				
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		N		
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		9	9	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		5	7	Drawings call for class 2 rock-26-Nov-2010
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		9	9	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>5</b>	<b>7</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1600, Type: MP)				
Barrel Last Accessible Date	04-Jul-2011			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		9	9	
Measured Rise (mm)	1610			
Measured At Ring No.	4			
Sag (mm)	10			
Percent Sag	1			
Sidewall		9	9	
Measured Span (mm)	1580			
Measured At Ring No.	4			
Deflection (mm)	20			
Percent Deflection	1			
Floor		9	9	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	9	
Separation (mm)				
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		9	9	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1600, Type: MP)					
Fish Passage Adequacy		9	9		
Baffle		X	X		
(Type : )					
Waterway Adequacy		9	9	150nn silt near d/s end.	
Icing (Y/N)	No				
Silting (Y/N)	Yes				
Drift (Y/N)	No				
<b>Barrel General Rating</b>		<b>9</b>	<b>9</b>		
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		S			
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape : )					
Cutoff Wall		X	X		
Bevel End		9	9		
Heaving (mm)					
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	400				
Scour Protection		9	5	Bank erosion d/s of scour	
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 300)					
Scour/Erosion		9	5	Bank erosion d/s of riprap apron.	
Beavers (Y/N)	No				
<b>Downstream End General Rating</b>		<b>9</b>	<b>5</b>		
Structure Usage					
		Last	Now	Explanation of Condition	
<b>Channel (U/S and D/S)</b>					
Alignment		7	7	Curves to East at d/s end.	
Bank Stability		9	5	Bank erosion d/s of riprap apron. Banks 0.3m vertical	
HWM (m below Top of Culvert)				No HWM visible.	
Drift (Y/N)	No				
Channel Bottom Degrading/Aggrading	DEGRADING				
Beavers (Y/N)	No				
(Fish Compensation Measure 1 : NONE)					
(Fish Compensation Measure 2 : NONE)					
<b>Channel General Rating</b>		<b>7</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>100.0/100.0</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>94.0/90.3</b>	Est. Repl. Yr	2070	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	Russel Vanderschaaf		Previous Assistant's Name				
Next Inspection Date	04-Apr-2013		Previous Inspection Date	26-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							