

Bridge Culvert Inspection			
Bridge File Number	74209 -1 Bridge Culvert	Form Type	CUL1
Year Built	1994	Lot No.	4
Bridge or Town Name	WHITLA	Inspector Name	Tom Carey
Located Over	2ND ORDER TRIBUTARY TO SEVEN PERSONS CREEK, 2.7.1.11.1, WATERCRS-ST	Inspector Class	BR CLS A
		Assistant Name	
Located On	885:04 C1 25.418	Assistant Class	
Water Body Cl./Year		Inspection Date	13-Mar-2012
Navigabil. Cl./Year		Data Entry By	Lauren Korte
Legal Land Location	SW SEC 36 TWP 8 RGE 9 W4M	Data Entry Date	11-Apr-2012
Longitude, Latitude	-111:06:39, 49:41:19	Reviewer Name	Garry Roberts
Road Authority	Alberta Transportation (AIT)	Review Date	24-Mar-2012
Contract Main. Area	CMA24	Dept. Reviewer Name	Tim Davies
Clear Roadway/Skew	9.8 /	Dept. Review Date	17-Apr-2012
AADT/Year	230 / 2011 (A)	Follow-Up By	
Road Classification	RAU-209-110		
Detour Length (km)	3		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	3000	MP	43	125X26	3.4	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone	West side.	Gas	
Power	1 line East side.	Municipal	
Others		Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	9	9	Road rises to the North & South.
Vertical Alignment	7	7	
Roadway Width (m)	9.800		
Embankment	8	8	
Sideslope ( _ :1)	3.0		
(Height of Cover(m) : <b>3.8</b> )			
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	W		West.
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		8	8	600mm of silt & gravel on floor @ U/S end.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		N	8	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	8	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>8</b>	<b>8</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : <b>1</b> , Primary Span, Location Code: <b>MAIN</b> , Span (mm): , Rise (mm): <b>3000</b> , Type: <b>MP</b> )				
Barrel Last Accessible Date	09-Feb-2009			
<b>Special Features</b>				
Special Feature				Avg. 1000 mm DP ice. Ice unsafe. Viewed from ends. Shape good.
(Type : )				
Special Feature				
(Type : )				
Roof		7	N	
Measured Rise (mm)	2965			
Measured At Ring No.	5			
Sag (mm)	35			
Percent Sag	1			
Sidewall		8	N	
Measured Span (mm)	3335			
Measured At Ring No.	5			
Deflection (mm)	35			
Percent Deflection	1			
Floor		N	N	(400mm silt on floor).
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	N	(3rd seam U/S - 50 mm bend sidewall seam (from installation)).
Separation (mm)	0			
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		8	N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3000, Type: MP)				
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type : )				
Waterway Adequacy		8	8	(400mm of silt and gravel on the floor).
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>8</b>	<b>N</b>	
Downstream 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	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Iced over.
Above/Below (mm)	300			
Scour Protection		N	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		N	8	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>8</b>	<b>8</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		6	5	An inlet valve for an irrigation line 2m from U/S end. 3m high earth dam - 10m U/S.
Bank Stability		8	8	Enters @ 90 degrees @ U/S.
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			Minor drift @ U/S fence @ NW.
Channel Bottom Degrading/Aggrading				Fence up to both ends, might be used as a cattle pass when dry.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<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>88.9/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>86.9/71.3</b>	Est. Repl. Yr	2042	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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	13-Jun-2015		Previous Inspection Date	09-Feb-2009			
Inspection Cycle (Default) (months)	39						
Comment							