

Bridge Culvert Inspection			
Bridge File Number	77382 -1 Bridge Culvert	Form Type	CUL1
Year Built	1972	Lot No.	1
Bridge or Town Name	FOX CREEK	Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO IOSEGUN RIVER, 8.10.58.7.32.4.2, WATERCRS-ST	Inspector Class	BR CLS B
Located On	947:12 C1 16.447	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	24-Aug-2010
Legal Land Location	NE SEC 22 TWP 61 RGE 18 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-116:36:41, 54:17:32	Data Entry Date	20-Oct-2010
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA03	Review Date	20-Sep-2010
Clear Roadway/Skew	10.8 / 31 deg. (RHF)	Dept. Reviewer Name	Steve Pasquan
AADT/Year	1,000 / 2009 (A)	Dept. Review Date	19-Nov-2010
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	999		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1500	SP	104.3	152X51	2.8	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone	Un-buried west r/w.	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks	Bury telephone line.		

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Bottom of short sag limited SSD
Vertical Alignment		6	6	
Roadway Width (m)	13.000			
Embankment		4	6	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 9.4)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>6</b>	<b>6</b>	

**Upstream 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	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	5	Dents,cuts.
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		3	7	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		3	7	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>3</b>	<b>5</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1500, Type: SP)				
Barrel Last Accessible Date	24-Aug-2010			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		5	7	
Measured Rise (mm)	1475			
Measured At Ring No.	5			
Sag (mm)	25			
Percent Sag	2			
Sidewall		2	2	Perforated 85m from u/s end.-photo and at ring 4-5 joint.
Measured Span (mm)	1538			
Measured At Ring No.	5			
Deflection (mm)	38			
Percent Deflection	3			
Floor		2	2	Perforations in floor in rings 4 + 5 and minor perforating throughout entire culvert.
Bulge (mm)	0			
Measured At Ring No.				200mm x 250mm South side-photo 100mmx50mm NOrth side-photo
Abrasion (Y/N)	No			
Circumferential Seams		2	2	500mm void behind culvert @ perforation @ R4.-photo
Separation (mm)				
Longitudinal Seams		3	3	At 8th to 10th & 12th rings at 11:00; & 12 & 13 Rings at 5:00 bolts are starting to pull through plate (photo)
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		2	2	Rusted thru, bottom plate completely corroded (photo) Limited to rings 4 and 5. Minor perforations throughout entire culvert on floor.-photo
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): , Rise (mm): 1500, Type: SP)				
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type : )				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>2</b>	<b>2</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)		NONE		
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		5	5	(Iced within 580mm of crown.Jan.14,04)
Heaving (mm)	200			
Invert Above/Below Stream Bed		ABOVE		
Above/Below (mm)	100			
Scour Protection		3	5	Silted over.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	5	
Beavers (Y/N)		No		
<b>Downstream End General Rating</b>		<b>3</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	40 degree curve at d/s end.
Bank Stability		6	6	
HWM (m below Top of Culvert)				NO HWM VISIBLE
Drift (Y/N)		No		
Channel Bottom Degrading/Aggrading		AGGRADING		
Beavers (Y/N)		No		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>5</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	2010	Install culvert liner.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>22.2/22.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>32.0/35.5</b>	Est. Repl. Yr	2015	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	AT advised of low rating August 2010. Assessment completed in February of 2005.		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 Caroux		Previous Assistant's Name				
Next Inspection Date	24-Nov-2013		Previous Inspection Date	29-May-2007			
Inspection Cycle (Default) (months)	39						
Comment							