

Bridge Culvert Inspection				
Bridge File Number	75252 -1 Bridge Culvert		Form Type	CUL1
Year Built	1962		Lot No.	2
Bridge or Town Name	TEEPEE CREEK		Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO BAD HEART RIVER, 8.10.58.11.5, WATERCRS-ST		Inspector Class	BR CLS B
Located On	733:04 C1 5.757		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	08-Nov-2011
Legal Land Location	NW SEC 22 TWP 75 RGE 3 W6M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:23:18, 55:30:47		Data Entry Date	22-Nov-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA05		Review Date	20-Nov-2011
Clear Roadway/Skew	9.2 / 21 deg. (RHF)		Dept. Reviewer Name	Steve Pasquan
AADT/Year	610 / 2010 (A)		Dept. Review Date	11-Jan-2012
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	40			

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1724	1901	SPE	50.6	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments				
Telephone	West ditch		Gas	
Power	50m south		Municipal	
Others			Problem (Y/N)	No
Remarks				

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		8	7	
Vertical Alignment		8	8	
Roadway Width (m)	9.200			
Embankment		4	4	Scour north of pipe 11m wide x 11.8m Runs up toward the highway over the pipe at the d/s end. U/s end old scour south of pipe in ditch. SE ditch scour 25mL X4mWX1.7mD.
Sideslope ( :1)	3.0			
(Height of Cover(m) : 5)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>8</b>	<b>7</b>	

**Upstream End**

		Last	Now	Explanation of Condition
<b>Culvert Component</b>				
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		4	4	Protruding from fill 1.2 m N. side. Blocked with drift -photo
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			SCOUR HOLE & EROSION NORTH SIDE OF BEVEL END 2.0 m back.-photo
Scour Protection		4	3	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>150</b> )				
Scour/Erosion		4	3	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>4</b>	<b>3</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE)				
Barrel Last Accessible Date	08-Nov-2011			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	6	
Measured Rise (mm)	1813			
Measured At Ring No.	8			
Sag (mm)	88			
Percent Sag	5			
Sidewall		4	4	Cracked seam
Measured Span (mm)	1806			
Measured At Ring No.	8			
Deflection (mm)	82			
Percent Deflection	5			
Floor		6	5	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	0			
Longitudinal Seams		4	4	Ring 7, 9 & 11 have cracked seam at 4:30 position, 120mm steel between cracks.
Total No. of Cracked Rings	3			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	Some pitting rust on floor. 1 M wide strip.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			~200mm
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE)				
Fish Passage Adequacy		4	4	Drop off at outlet.
Baffle		X	X	
(Type : )				
Waterway Adequacy		7	4	Blocked by drift u/s end.-photo
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
<b>Barrel General Rating</b>		<b>4</b>	<b>4</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		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed		ABOVE		
Above/Below (mm)	600			
Scour Protection		3	4	Bevel unsupported for 1.5 m.
(Type : <b>NONE</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		3	4	Scour hole 6mW x 10mL x 0.5mD.
Beavers (Y/N)		No		
<b>Downstream End General Rating</b>		<b>3</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		5	6	Some sloughing down stream.
HWM (m below Top of Culvert)				HWM NOT VISIBLE.
Drift (Y/N)		Yes		
Channel Bottom Degrading/Aggrading		DEGRADING		
Beavers (Y/N)		Yes		
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>6</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2012	Class 30M3 CL II ROCK D/S & U/S					
REMOVE DRIFT ACCUMULATION	2012	Remove drift blockage in u/s bevel.					
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>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>44.6/35.2</b>	Est. Repl. Yr	2014	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor cracked seams, embankment, upstream scour and corrosion.		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	08-Feb-2015		Previous Inspection Date	17-Sep-2010			
Inspection Cycle (Default) (months)	39						
Comment							