

Bridge Culvert Inspection			
Bridge File Number	71400 -1 Bridge Culvert	Form Type	CUL1
Year Built	1968	Lot No.	1
Bridge or Town Name	ROSEMARY	Inspector Name	Jason Rusu
Located Over	2ND ORDER TRIBUTARY TO MATZHIWIN CK, 3.15.4.2, WATERCRS-ST	Inspector Class	BR CLS B
Located On	550:02 C1 22.404	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	24-Oct-2010
Legal Land Location	SE SEC 13 TWP 21 RGE 16 W4M	Data Entry By	Alyssa Boynton
Longitude, Latitude	-112:05:29, 50:46:33	Data Entry Date	10-Dec-2010
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA23	Review Date	07-Nov-2010
Clear Roadway/Skew	9.8 /	Dept. Reviewer Name	Lorenz Bohnert
AADT/Year	760 / 2009 (A)	Dept. Review Date	13-Dec-2010
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	3		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2159	1372	FP	19.5		4.2	ARCH
Special Features								
Special Features Comment								

**Utilities (Located at)**

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

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	INTERSECTION 20m E.
Vertical Alignment	9	8	
Roadway Width (m)	10.000		
Embankment	8	7	
Sideslope ( __:1)	3.0		
(Height of Cover(m) : 1.3)			
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	S		SOUTH u/s end extended
End Treatment (Concrete, Steel, Others, None)	NONE		
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		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		8	7	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>100</b> )				
Scour/Erosion		8	7	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>8</b>	<b>7</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2159, Rise (mm): 1372, Type: FP)				
Barrel Last Accessible Date	24-Oct-2010			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		2	2	(CONNECTs SMALLER PIPE D/S 2170x1320 3.5 m SMALLER PIPE D/S 1870 x 1250)Isolated roof bent at section 4, with reverse curvature. 2- notification has been sent to AT
Measured Rise (mm)	1155			
Measured At Ring No.	4			
Sag (mm)	217			
Percent Sag	16			
Sidewall		5	5	
Measured Span (mm)	2278			
Measured At Ring No.	4			
Deflection (mm)	119			
Percent Deflection	6			
Floor		5	5	Some gravel on floor
Bulge (mm)	70			
Measured At Ring No.	4			
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	10			
Longitudinal Seams		6	X	Rivettted FP
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
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): 2159, Rise (mm): 1372, Type: FP)				
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type : )				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>2</b>	<b>2</b>	Roof sag of 16%
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		North
End Treatment (Concrete, Steel, Others, None)	CONCRETE			Landowners wet well at D/S end. 3.5 m EXTENSION ON D/S END. 1200mm CSP ANGLES NE.
Headwall		8	7	
Collar		8	X	
Wingwalls		8	X	
(Shape : )				
Cutoff Wall		N	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		9	8	
(Type : <b>CONCRETE</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		9	8	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>8</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		7	5	NS conduit at 45 degrees to outlet.
Bank Stability		9	8	
HWM (m below Top of Culvert)				No visible HWM
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				AGGRADING
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<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>22.2/22.2</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>56.4/53.4</b>	Est. Repl. Yr	2012	Maint. Reqd. (Y/N)	No
Special Comments for Next Inspection	If EID replacing with Pipeline, no action required otherwise struts recommended at ring 4		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	24-Jan-2014		Previous Inspection Date	29-Jan-2007			
Inspection Cycle (Default) (months)	39						
Comment							