

Bridge Culvert Inspection			
Bridge File Number	77363 -1 Bridge Culvert	Form Type	CUL1
Year Built	1991	Lot No.	4
Bridge or Town Name	DERWENT	Inspector Name	Owen Salava
Located Over	TRIBUTARY TO QUEENIE CREEK, 6.19.5.2, WATERCRS-ST	Inspector Class	BR CLS A
Located On	631:06 C1 14.678	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	08-Aug-2011
Legal Land Location	SE SEC 5 TWP 53 RGE 7 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-110:59:23, 53:32:27	Data Entry Date	19-Sep-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA15	Review Date	16-Aug-2011
Clear Roadway/Skew	12 / 35 deg. (RHF)	Dept. Reviewer Name	Andrew Smikles
AADT/Year	90 / 2010 (A)	Dept. Review Date	19-Sep-2011
Road Classification	RLU-209G-90	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	1575	1429	SPE	84.1	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment	Previous note shows 1575mm Rise x 1429mm Span VE.							

Utilities (Located at)

Utility Attachments			
Telephone	South ditch	Gas	
Power	20m N of C/L (1 wire)	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Road junction 50m E.
Vertical Alignment		8	8	
Roadway Width (m)	12.000			
Embankment		8	8	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 4)				
Guardrail (Y/N)	Yes			Approx. 80m of guardrail along each side.
Approach Road / Embankment General Rating		7	7	

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		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	370			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		5	5	Minor erosion
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1575, Rise (mm): 1429, Type: SPE)				
Barrel Last Accessible Date	08-Aug-2011			Design 1429 x 1575
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	6	
Measured Rise (mm)	1500			
Measured At Ring No.	4			
Sag (mm)	75			
Percent Sag	4			
Sidewall		6	6	
Measured Span (mm)	1500			
Measured At Ring No.	5			
Deflection (mm)	71			
Percent Deflection				
Floor		6	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	2 seams in each ring lapped incorrectly at 10:00 & 4:00 o'clock.
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)	Yes			
Coating		7	7	
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): 1575, Rise (mm): 1429, Type: SPE)				
Fish Passage Adequacy		X	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
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		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	350			
Scour Protection		5	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Rating		5	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)	0.6			Minor.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	69.2/70.2	Est. Repl. Yr	2040	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	Glen Smith		Previous Assistant's Name				
Next Inspection Date	08-Nov-2014		Previous Inspection Date	13-Jun-2007			
Inspection Cycle (Default) (months)	39						
Comment							