

Bridge Culvert Inspection			
Bridge File Number	81519 -1 Bridge Culvert	Form Type	CUL1
Year Built	1990	Lot No.	1
Bridge or Town Name	CHERRY GROVE	Inspector Name	Todd Warshawski
Located Over	TRIBUTARY TO BEAVER RIVER, 7.3, WATERCRS-ST	Inspector Class	BR CLS B
Located On	897:12 C1 20.107	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	14-Dec-2011
Legal Land Location	NE SEC 35 TWP 61 RGE 2 W4M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-110:10:52, 54:19:10	Data Entry Date	14-Jan-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA08	Review Date	04-Jan-2012
Clear Roadway/Skew	9.4 / 24 deg. (RHF)	Dept. Reviewer Name	Brent Herrick
AADT/Year	940 / 2010 (A)	Dept. Review Date	18-Jan-2012
Road Classification	RCU-210-110	Follow-Up By	
Detour Length (km)	17		

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	140.8	152X51	4.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	NW r/w.
Power	2 wires East r/w. Crosses 50 m South.	Municipal	
Others		Problem (Y/N)	No
Remarks	BF tag installed at top of West end roof.		

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	
Vertical Alignment	7	7	
Roadway Width (m)	9.400		
Embankment	5	5	Ditch erosion @ NW, well vegetated. @ SE grassed and stable.
Sideslope (__:1)	3.0		
(Height of Cover(m) : 19.6)			
Guardrail (Y/N)	Yes		Several sections with strike damage, still functional.
Approach Road / Embankment General Rating	7	7	

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		7	7	
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
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	14-Dec-2011			U/S 1/3 accessible
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	N	Sag not confirmed. Pipe accessed up to ring 13.
Measured Rise (mm)	1405			
Measured At Ring No.				
Sag (mm)	95			
Percent Sag	6			
Sidewall		3	N	Deflection not confirmed. Pipe accessed up to ring 13.
Measured Span (mm)	1670			
Measured At Ring No.				
Deflection (mm)	170			
Percent Deflection	11			
Floor		7	N	Under water/ice
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		7	7	U/S 1/3 rated
Separation (mm)	0			
Longitudinal Seams		7	7	U/S 1/3 rated
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	6	Minor superficial rust lower 1/4.
Corrosion By Soil (Y/N)	No			
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		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	GR carried fwd from Aug 13,2008.
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		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

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	2012	Level II barrel inspection.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.3/33.3	Sufficiency Rating (Last/Now) (%)	54.3/53.5	Est. Repl. Yr	2028	Maint. Reqd. (Y/N)	Yes
Special Comments for Next Inspection	This culvert should be done by 2-man inspection team due to size and length for reasons.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	14-Mar-2015		Previous Inspection Date	13-Aug-2008			
Inspection Cycle (Default) (months)	39						
Comment							