

Bridge Culvert Inspection								
Bridge File Number	00653 -1 Bridge Culvert				Form Type	CUL1		
Year Built	1985				Lot No.	4		
Bridge or Town Name	COCHRANE				Inspector Name	Garry Roberts		
Located Over	HORSE CREEK, 2.13.44, WATERCRS-ST				Inspector Class	BR CLS A		
Located On	1A:06 C1 10.556				Assistant Name			
Water Body Cl./Year					Assistant Class			
Navigabil. Cl./Year					Inspection Date	29-Aug-2012		
Legal Land Location	NE SEC 8 TWP 26 RGE 4 W5M				Data Entry By	Lauren Korte		
Longitude, Latitude	-114:31:12, 51:12:31				Data Entry Date	28-Sep-2012		
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey		
Contract Main. Area	CMA28				Review Date	04-Sep-2012		
Clear Roadway/Skew	11.3 / 5 deg. (RHF)				Dept. Reviewer Name	Tim Davies		
AADT/Year	3,890 / 2011 (A)				Dept. Review Date	02-Oct-2012		
Road Classification	RAU-210-110				Follow-Up By			
Detour Length (km)	15							
Bridge Culvert Information								
Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	4268	SP	46.9	152X51	4.0	ROUND
Special Features								
Special Features Comment								
Utilities (Located at)								
Utility Attachments								
Telephone	North & South fenceline.				Gas			
Power					Municipal			
Others	Waterline 20 m West.				Problem (Y/N)	No		
Remarks								
Approach Road / Embankment								
			Last	Now	Explanation of Condition			
Horizontal Alignment			7	7				
Vertical Alignment			7	7				
Roadway Width (m)	11.300							
Embankment			6	6				
Sideslope (_ :1)	4.0							
(Height of Cover(m) : 3.2)								
Guardrail (Y/N)	Yes							
Approach Road / Embankment General Rating			7	7				
Upstream End								
Culvert Component			Last	Now	Explanation of Condition			
Direction					North.			
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall			7	7				
Collar			6	6	Several 0.5 mm wide cracks in each.			
Wingwalls			X	X				
(Shape :)								
Cutoff Wall			6	5	Cracks up to 2mm wide @ East.			

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	900			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		6	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4268, Type: SP)				
Barrel Last Accessible Date	29-Aug-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)	4220			
Measured At Ring No.	4			
Sag (mm)	48			
Percent Sag	1			
Sidewall		8	8	
Measured Span (mm)	4320			
Measured At Ring No.	5			
Deflection (mm)	52			
Percent Deflection	1			
Floor		N	N	800mm deep water.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		8	8	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			Roof seam lapped incorrectly, 1N stagger.
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	6	
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): , Rise (mm): 4268, Type: SP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				South
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)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		6	6	Settlement at both sides.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Bends U/S and D/S.
Bank Stability		6	6	
HWM (m below Top of Culvert)	2.5			(April 12/07) No visible HWM.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	71.5/70.4	Est. Repl. Yr	2035	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	29-May-2014		Previous Inspection Date	13-Dec-2010			
Inspection Cycle (Default) (months)	21						
Comment							