

Bridge Culvert Inspection								
Bridge File Number	81735 -1 Bridge Culvert				Form Type	CUL1		
Year Built	1993				Lot No.	4		
Bridge or Town Name	RED EARTH CR				Inspector Name	Brian Pientsch		
Located Over	2ND ORDER TRIBUTARY TO TROUT RIVER, 8.10.18.21.2.1, WATERCRS-ST				Inspector Class	BR CLS A		
Located On	686:10 C1 24.982				Assistant Name			
Water Body Cl./Year					Assistant Class			
Navigabil. Cl./Year					Inspection Date	10-Jan-2013		
Legal Land Location	SW SEC 25 TWP 89 RGE 5 W5M				Data Entry By	Theresa Lacusta		
Longitude, Latitude	-114:39:59, 56:44:31				Data Entry Date	10-Feb-2013		
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA02				Review Date	23-Jan-2013		
Clear Roadway/Skew	13 / -14 deg. (LHF)				Dept. Reviewer Name	David Morrison		
AADT/Year	210 / 2011 (A)				Dept. Review Date	21-Mar-2013		
Road Classification	RCU-210-110				Follow-Up By			
Detour Length (km)	999							
Bridge Culvert Information								
Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2130	SP	67.7	152X51	3.0	ROUND
Special Features								
Special Features Comment								
Utilities (Located at)								
Utility Attachments								
Telephone	S r/w buried.			Gas				
Power	1 wire OH N R/W.			Municipal				
Others				Problem (Y/N)	No			
Remarks								
Approach Road / Embankment								
		Last	Now	Explanation of Condition				
Horizontal Alignment		7	7	One horizontal curve.				
Vertical Alignment		7	7					
Roadway Width (m)	13.000							
Embankment		N	N	Snow covered.				
Sideslope (__:1)	4.0							
(Height of Cover(m) :)								
Guardrail (Y/N)	No							
Approach Road / Embankment General Rating		7	7					
Upstream 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					

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	N	Snow covered
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			Snow covered
Above/Below (mm)	300			
Scour Protection		N	N	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	GR carried forward.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2130, Type: SP)				
Barrel Last Accessible Date	30-Nov-2004			Ice to crown 700 mm. Viewed from ends.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	(Sag 1962 at RIO - 2000/01/04)
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	158			
Percent Sag				
Sidewall		N	N	Span 2300 at RIO (8.5%) (2000/01/04)
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	180			
Percent Deflection				
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams		N	N	
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		N	N	Minor superficial on sides above ice.
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): 2130, Type: SP)				
Fish Passage Adequacy		7	7	
Baffle		N	N	
(Type :)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	GR carried forward
Downstream 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	
Bevel End		X	X	Snow covered
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	N	Snowcovered.
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Rating		6	6	GR carried forward.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Culvert)				No HWM visible.
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) (%)		44.4/44.4	Sufficiency Rating (Last/Now) (%)		54.8/54.9	Est. Repl. Yr	2042	Maint. Reqd. (Y/N)	No
Special Comments for Next Inspection	Monitor sag & deflection.-02-Feb-2009			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	Brian Pientsch		Previous Assistant's Name		Jordan Evans				
Next Inspection Date	10-Apr-2016		Previous Inspection Date		02-Feb-2009				
Inspection Cycle (Default) (months)	39								
Comment									