				B	Bridge	Culve	ert Inspe	ction					
Bridge File Num	nber				Form T		CULM						
Year Built		1994				Lot No.	71 -	4					
	Name	RED EARTH CR						or Name		Brian Pientsch			
Located Over				N RIVER. 8.	8.10.18.12.9,		· · ·		BR CLS A				
			CRS-ST	, -		- /	Assistant Name			Clem Guenette			
Located On		88:10 C	88:10 C1 14.689				Assistant Class						
Water Body Cl./	/Year						Inspection Date		11-Jun-201	2			
Navigabil. Cl./Y	'ear									custa			
Legal Land Loc	ation	NW SE	RGE 9 W5M	1			ntry Date		14-Oct-2012				
Longitude, Latit	tude	-115:18	:03, 56:42:36					Reviewer Name Eric Carcoux					
Road Authority		Alberta	Transportation	(AIT)			Review		08-Oct-2012				
Contract Main.	Area	CMA02			Dept. Reviewer Nam								
Clear Roadway	/Skew	13 /					· · ·	eview Date	07-Jan-201	· · · · · · · · · · · · · · · · · · ·			
AADT/Year		370 / 20	011 (A)				Follow-			-			
Road Classifica	ation	RAU-21	0-110										
Detour Length ((km)	300											
Bridge Culvert	Inform												
Number of Culv	/erts		2										
Pipe #	Barrel		Span	Rise (or Di	ia.) T	Гуре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	2700	Ν	MP		39	125X26	2.8	ROUND		
2	MAIN		-	2700	Ν	MP		39	125X26	2.8	ROUND		
Special Feature	es												
Utility Attachme Telephone Power	ents		Last Now				Gas Gas line-Approx 25m East of road cl. Municipal Problem (Y/N) Problem (Y/N) No d / Embankment Explanation of Condition Devon Oil road, intersection 60m N.						
Others Remarks	nment						Municip Problen / Emba Explan	n (Y/N) No nkment ation of Con	dition		i ci.		
Others Remarks Horizontal Align					ast 7	Now 7	Municip Problen / Emba Explan	n (Y/N) No nkment ation of Con	dition		1 cl.		
Others Remarks	ent		12.000		.ast	Now	Municip Problen / Emba Explan	n (Y/N) No nkment ation of Con	dition		1 cl.		
Others Remarks Horizontal Align Vertical Alignme	ent		12.000		ast 7	Now 7	Municip Problen / Emba Explan	n (Y/N) No nkment ation of Con	dition		1 cl.		
Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (ent n (m) _:1)	- 1.7)	12.000		.ast 7 8	Now 7 8	Municip Problen / Emba Explan	n (Y/N) No nkment ation of Con	dition		1 cl.		
Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment	ent n (m) _:1) ver(m) :	: 1.7)			.ast 7 8	Now 7 8	Municip Problen / Emba Explan	n (Y/N) No nkment ation of Con	dition				
Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (ent n (m) _:1) ver(m) :		5.0 No		.ast 7 8	Now 7 8	Municip Problen / Emba Explan	n (Y/N) No nkment ation of Con	dition				
Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (ent n (m) _:1) ver(m) :		5.0 No		.ast 1 7 8 7 7 7 7 7 7	Now 7 8 7 7 7	Municip Problen / Emba Explan	n (Y/N) No nkment ation of Con	dition				
Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (ent n (m) <u>:1)</u> ver(m) : nd / Eml		5.0 No	ing	ast 7 8 7 7 7	Now 7 8 7 7 7 7 7 Jpstree	Municip Problem I / Emba Explana Devon (n (Y/N) No nkment ation of Con	dition section 60m N				
Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (ent n (m) _:1) ver(m) : nd / Eml	bankmer	5.0 No nt General Rat	ing	ast 1 7 8 7 7 7 7 7 7	Now 7 8 7 7 7 7 7 Jpstree	Municip Problem I / Emba Explana Devon (n (Y/N) No No No No No No No No No No	dition section 60m N				
Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (ent n (m) _:1) ver(m) : nd / Eml	bankmer	5.0 No nt General Rat	ing L	ast 1 7 8 7 7 7 7 7 7	Now 7 8 7 7 7 7 7 Jpstree	Municip Problem I / Emba Explana Devon (al No n (Y/N) No Inkment ation of Con Oil road, inter ation of Con	dition section 60m N				
Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (ent n (m) <u>:1)</u> ver(m) : nd / Eml onent an Type	bankmer e: Prima	5.0 No nt General Rat	ing L	.ast 7 8 7 7 7 .ast	Now 7 8 7 7 7 7 7 Jpstree	Municip Problem Explana Devon (al No n (Y/N) No Inkment ation of Con Oil road, inter ation of Con	dition section 60m N				
Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (ent n (m) <u>:1)</u> ver(m) : nd / Eml onent an Type	bankmer e: Prima	5.0 No nt General Rat	ing L	.ast 7 8 7 7 7 .ast	Now 7 8 7 7 7 7 7 Jpstree	Municip Problem Explana Devon (al No n (Y/N) No Inkment ation of Con Oil road, inter ation of Con	dition section 60m N				
Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (ent n (m) <u>:1)</u> ver(m) : nd / Eml onent an Type	bankmer e: Prima	5.0 No nt General Rat	ing L	.ast I 7 8 7 7 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9 9 9 10 9 11 9 12 9 13 9 14 9 15 9 16 9 17 9 18 9 19 9 10 9 10 9 10 9 10 9 10 9 10 9 10 9 10 9 10 9 10 9 11 9 10 9 10 9 11 9 12 9 13 9 14 9 15 9 15 9 15 9	Now 7 8 7 7 7 Jpstreat Now	Municip Problem Explana Devon (al No n (Y/N) No Inkment ation of Con Oil road, inter ation of Con	dition section 60m N				
Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (ent n (m) <u>:1)</u> ver(m) : nd / Eml onent an Type	bankmer e: Prima	5.0 No nt General Rat	ing L	.ast I 7 8 7 7 7 7 7 0 .ast I N X	Now 7 8 7 7 7 7 Jpstre Now	Municip Problem Explana Devon (al No n (Y/N) No Inkment ation of Con Oil road, inter ation of Con	dition section 60m N				

Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Span Type: Primary	(Snan)	Lasi	INOW	
Cutoff Wall			Х	
			^	
Bevel End		7	7	
Heaving (mm)	25			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Culvert Component		1		vert Barrel
Culvert Component (Pipe # : 1, Primary Span, Locat	tion Code: MAINL Sta			Explanation of Condition , Rise (mm): 2700, Type: MP)
	11-Jun-2012	in (mm	<u>):</u>	, Rise (mm): 2700, Type: MP)
Barrel Last Accessible Date	11-Jun-2012			
Special Features				
Special Feature				
(Type :)		1		
Special Feature				
(Туре :)				
Roof		8	8	
Measured Rise (mm)	2615			@ cl
Measured At Ring No.				
Sag (mm)	85			
Percent Sag	3			
Sidewall		7	7	
Measured Span (mm)	2767			@ c/l
Measured At Ring No.				
Deflection (mm)	67			
Percent Deflection	3			
Floor		N	N	340mm of pipe covered with silt.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)			_	
Circumferential Seams		8	8	
Separation (mm)	75			
Longitudinal Seams		X	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		4	4	Pitting rust visible 4:00 - 8:00
Corrosion By Soil (Y/N)	No		· ·	above silt.
Corrosion By Water (Y/N)	Yes			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77367 -1 Bridge Culvert

		Brid	dae Cu	Ivert Barrel				
Culvert Component			Now					
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa):	, Rise (mm): 2700, Type: MP)				
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							
Fish Passage Adequacy		8	8					
Baffle		X	X					
(Type:)								
Waterway Adequacy		6	6	1000 from roof.2007-01-15				
Icing (Y/N)	No							
Silting (Y/N)	Yes							
Drift (Y/N)	No							
Barrel General Rating		8	7					
		D	ownsti	ream End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Span Type: Primary	/ Span)							
Direction		E		South pipe				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	Х					
Collar		Х	Х					
Wingwalls		X	Х					
(Shape:)								
Cutoff Wall		Х	X					
Bevel End		7	7	Silt accumulated on floor				
Heaving (mm)	150		-					
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	500							
Scour Protection		7	7					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 400)								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Downstream End General Ration	ng	7	7					
			Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)							
Direction	1	W		North pipe				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	X					
Collar		X	Х					
Wingwalls		X	X					
(Shape :)								
Cutoff Wall		X	X					

Alberta Transportation

				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		7	7	Silt accumulated on floor.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion			7	
		7		
Beavers (Y/N)	No			
		-	-	
Upstream End General Rating		7	7	
		Brid	dqe Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (ı	mm):	, Rise (mm): 2700, Type: MP)
Barrel Last Accessible Date	11-Jun-2012			
Special Features		1		
Special Feature				
(Type:)		1	-	_
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)	2602			@ cl
Measured At Ring No.				
Sag (mm)	98			
Percent Sag	4			
Sidewall		7	7	
Measured Span (mm)	2780			
Measured At Ring No.				@ c/l
Deflection (mm)	80			
Percent Deflection	3			
Floor		N	N	400mm of pipe covered with silt.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	7	
Separation (mm)	75	1	1	
Longitudinal Seams	10	X	X	
		~	^	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		6	6	Superficial rust visible 4:00 - 8:00 above silt
Corrosion By Soil (Y/N)	No		5	
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Camper FUS/ZERU/NEG	LERU			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77367 -1 Bridge Culvert

	1	Brio	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2700, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	6	1000 from roof.2007-01-15
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		7	7	
	1	D		ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)	1		
Direction	1	E		North Pipe
End Treatment (Concrete, Steel, Others, None)	STEEL		1	
Headwall		X	X	
Collar		X	X	
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			Floor covered with silt.
Above/Below (mm)	500			
Scour Protection		7	7	
(Type : RIP RAP)				-
(Avg. Rock Size(mm) : 400)		1	1	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ration	ng	7	7	
		s	structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Curves d/s.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Stable
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	1			
(Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·			

Structure Usage						
Last Now Explanation of Condition						
Channel General Rating		6				

Maintenance Recommendations											
Inspector Recommendations		Inspector Comments		Department Commo		Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	FF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow) 77.8/7	7.8 Sufficiency Rating (Last/N (%)	ow) 7	71.1/71.1 Est. Repl. Yr 2041		2041	Maint. Red	qd. (Y/N)	No		
Special Wrong BF tag #on c Comments for Next Inspection	rown, inside ta	ag has correct #.		Department Comments							
Maintenance Reviewed By				Date		E	Estimated Total	0			
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Brian Pientsch	Brian Pientsch Previou			s Assistant's Name Lisbeth Medina						
Next Inspection Date	11-Mar-2014		Previous Ir	revious Inspection Date 04-Aug-2010							
· · · ·	21										
Comment											