Bridge Culvert Inspection													
Bridge File Number 02321 -1 Bridge Culvert					Dirag	e eun		Form Type		CUL1			
Year Built									4				
Bridge or Town Name RED EARTH CR									Brian Pientsch				
				Y TO WABASCA RIVER,			Inspector Class			BR CLS A			
	8.10.18.5, WATERCRS-ST						Assistant Name		Clem Guenette	e			
Located On 88:12 C1 46.028							Assistant Class						
Water Body Cl./	Year						Inspection Date		12-Jun-2012				
Navigabil. Cl./Ye	ear						· ·	ntry By		Theresa Lacusta			
Legal Land Location NE SEC 9 TWP 97 RGE 9 W5M					/				19-Nov-2012				
Longitude, Latitude -115:23:04, 57:24:14								Eric Carcoux					
Road Authority Alberta Transportation (AIT)				(AIT)			Review Date		04-Nov-2012				
Contract Main. Area CMA02									David Morriso	n			
Clear Roadway/	Skew	11.5 / -32	-32 deg. (LHF)				Dept. Review Date			11-Jan-2013			
AADT/Year		180 / 201	1 (A)				Follow-Up By		11-Jdll-2013				
Road Classificat	tion	RAU-210	-110				- гоном-ор бу						
Detour Length (I	km)	300											
Bridge Culvert	Inform	ation											
Number of Culve	erts	1											
Pipe #			pan	pan Rise (or l		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	-		5253		SP		56.1		152X51	5.0	ROUND	
Special Features	s	S	HOTCRETE	BEAM									
Special Features Comment													
					Uti	ilities (L	ocated	at)					
Utility Attachme	nts								1				
Telephone							Gas						
Power							Munici						
Others			Proble	m (Y/N)	No								
Remarks													
				A				ankment		-			
						Now	· ·	ation of	Condi	tion			
Horizontal Alignment					7	7	Bottom	of sag.					
Vertical Alignment					7	7							
Roadway Width (m) 11.50			11.500										
Embankment					6	6							
Sideslope (:	:1)		3.0										
(Height of Cover(m) : 4)					1								
Guardrail (Y/N)			No										
Approach Road	d / Emb	pankment	t General Rat	ing	7	7							
						Upstre	am End						
Culvert Compo	nent				Last	Now			Condi	tion			
			W		Explanation of Condition (Tag @ D/S end @ 11 o'clock on the outs				outside. 05/05	/14)			
End Treatment (Concrete, Steel, CONCRETE						-				,			
Others, None)		,											
Headwall				6	6								
Collar				6	6								
Wingwalls				Х	X								
(Shape :)													
Cutoff Wall				N	N								

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			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion			6	
Beavers (Y/N)	No			
Upstream End General Rating	1	6	6	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Sp	an (mm):	, Rise (mm): 5253, Type: SP)
Barrel Last Accessible Date	07-Nov-2008			Water approx. 0.5m deep and flowing fast at the inlet. Viewed from ends.
Special Features				
Special Feature		8	8	On roof D/S.
(Type : SHOTCRETE BEAM)				Viewed from d/s end.
Special Feature				
(Туре :)				
Roof		N	N	Crack @ 12:00 ring 1 (Photo)-07-Nov-2008
Measured Rise (mm)	5373			
Measured At Ring No.	6			Upward07-Nov-2008
Sag (mm)	120			
Percent Sag	2			
Sidewall		N	N	
Measured Span (mm)	5139			Inward07-Nov-2008
Measured At Ring No.	6			
Deflection (mm)	114			
Percent Deflection	2			
Floor		N	N	Water cover
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams		N	N	(Missing 1 bolt @ 3:00 R5.)
Total No. of Cracked Rings	1			Cracks @ 12:00 ring 1 (Photo)-07-Nov-2008
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				Too high to measure07-Nov-2008
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		7	N	Viewed from ends.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

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Bridge Inspection & Maintenance System (Web 2005)

02321 -1 Bridge Culvert

		Brid	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm		, Rise (mm): 5253, Type: SP)
Ponding (Y/N)	No			
Fish Passage Adequacy		3	3	300mm drop at d/s end.
Baffle		X	X	
(Type :)				
Waterway Adequacy		6	6	(Drift @ inlet)
Icing (Y/N)	No	-		
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		4	4	GR carried forward from 2008
		D	ownstr	ream End
Culvert Component			Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		6	7	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		4	4	Both sides of bevel pushing inward 300mm. South side of bevel.
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		5	5	
(Type : RIP RAP)				_
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	4	4	
		S	Structu	re Usage
				Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability			5	BANK ERODING @ BEND 30m D/S
HWM (m below Top of Culvert)				Hwm not visible.
Drift (Y/N) Yes				1
Channel Bottom DEGRADING Degrading/Aggrading				cuttings present d/s.
Beavers (Y/N) Yes				Go Free and A
(Fish Compensation Measure 1 :	1			
(Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·			1
Channel General Rating	, , , , , , , , , , , , , , , , , , ,	6	6	
			_	2 of 5

Structure Usage Last Now Explanation of Condition

Maintenance Recommendations													
Inspector Recommendations			Year Inspector Comments					Department Con	nments	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) (%)		v) 4	3.4/43.4	Est. Repl. Yr	Repl. Yr 2026		qd. (Y/N)	No
Special Mo Comments for Next Inspection	-2008					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			Brian Pientsch Previous A					Assistant's Name Lisbeth Medina					
Next Inspection Date 12-		12-Mar-2014 Previous Ins					Inspection Date 05-Aug-2010						
Inspection Cycle (Default) (months) 21		21											
Comment													