					Bridg	e Culve	ert Insp	ection				
Bridge File Num	ber	77311 -	-1 Bridge Culve	rt	Ĭ		Form 7			CUL1		
Year Built		1971					Lot No.		4			
Bridge or Town	Name	FOX C	REEK				Inspector Name		Russel Vanderschaaf			
Located Over		IOSEG	UN RIVER, 8.10	0.58.7.32	,		Inspector Class		BR CLS B			
Located On			C1 12.488				Assistant Name					
Water Body Cl./		347.12	01 12.400				Assista	ant Class				
Navigabil. Cl./Ye							Inspec	Inspection Date		24-Aug-2010		
			2 10 TWD 61 D		Data E	ntry By		Theresa Lacus	sta			
						Data E	Data Entry Date		07-Oct-2010			
Longitude, Latitude -116:36:16  Road Authority Alberta Tra							Reviewer Name		Arnold Assenheimer			
Road Authority Alberta Tra Contract Main. Area CMA03		•	ransportation (AIT)				Review Date		20-Sep-2010			
			<u>'</u>				Dept. Reviewer Name		i -	n		
Clear Roadway/Skew 13 / AADT/Year 1.000 / 20		2009 (A)	000 (A)				Dept. Review Date		18-Nov-2010			
Road Classificat		RCU-2					Follow	-Up By				
Detour Length (	-	999	09-110				-					
Bridge Culvert												
Number of Culve		ation	1									
	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN		-	5500		SP		79.3		152X51	3.0	ROUND
Special Features				10000		<u> </u>		1 0.0		102701		THOUSE
Special Features		nent										
•												
	İ				Uti	lities (L	ocated	at)				
Utility Attachmer	T '								I			
Telephone		west r/					Gas					
Power	E. SID	E - 5w,	100M EAST	-			Munici		ADV. AL			
Others					Proble	m (Y/N)	No					
Remarks				Α.		l. D.	l / East	ankment				
				Α	Last	Now				tion		
Horizontal Alignment			7	7	Explanation of Condition  Bottom of long grandual sag.							
Vertical Alignment				7	7							
Roadway Width (m)		13.000	13.000									
Embankment				5	7							
Sideslope (:	:1)		4.0				1					
(Height of Cov		6.9)					1					
Guardrail (Y/N)		,	No									
Approach Road	d / Emb	ankme	nt General Rat	ing	7	7						
						Unstre	am End					
<b>Culvert Compo</b>	nent				Last	Now	1	ation of	Condi	tion		
Direction			'		W							
End Treatment ( Others, None)	(Concre	ete, Stee	el, CONCRETE									
Headwall					6	6	Med. vert. cracks.					
Collar					4 4		Wide crack both sides.					
Wingwalls					Х	X						
(Shape: )												

Sevel End				Upstre	am End
Bevel End	Culvert Component		Last	Now	Explanation of Condition
Heaving (mm)	Cutoff Wall		N	N	
Invert Above/Below (hrm)	Bevel End		7	7	
Invert Above/Below (hrm)	Heaving (mm)	0			
Above/Below (mm)   800					
Scour Protection   4   7					
Crype : RIP RAP		1000	4	7	
(Avg. Rock Size(mm) : 300)   Scourif Foreign					
Scouri   Frosion   No					
Last   Now   Explanation of Condition			4	7	
Culvert Component	Beavers (Y/N)	No			
Culvert Component         Last (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm);         *** (Span Min); 5500, Type: SP)           Barrel Last Accessible Date         14-Jan-2004         " *** ** ** ** ** ** ** ** ** ** ** ** *	Upstream End General Rating		4	7	
Culvert Component         Last (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm);         *** (Span Min); 5500, Type: SP)           Barrel Last Accessible Date         14-Jan-2004         " *** ** ** ** ** ** ** ** ** ** ** ** *			Brid	dae Cu	lvert Barrel
Rise (mm): 5500, Type: SP)   Special Feature	Culvert Component				
Barrel Last Accessible Date    Special Features		tion Code: MAIN. Spa			
Special Feature			(111111	·/-	
Special Feature   Type : )	Barrer East / toocssible Bate	14 0011 2004			appear to have changed.
Special Feature   Type : )	0				
Type :   Special Feature   S			Ι	Τ	
Special Feature   Company   Compan	·				
Type : )   Roof				T	
Roof   Sala	•				
Measured Rise (mm) Measured At Ring No. Sag (mm) Sidewall Measured Span (mm) Measured At Ring No. Deflection  Floor N N N Bulge (mm) Measured At Ring No. Abrasion (Y/N) No  Circumferential Seams Separation (mm) Longitudinal Seams Total No. of Cracked Rings Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No  Rings 1 & 2 (photo).@ c/l, span =5015, 4.9% defl. Sidewall flattening deforming Jan 14/04)  Rings 1 & 2 (photo).@ c/l, span =5015, 4.9% defl. Sidewall flattening deforming Jan 14/04)  Rings 1 & 2 (photo).@ c/l, span =5015, 4.9% defl. Sidewall flattening deforming Jan 14/04)  Rings 1 & 2 (photo).@ c/l, span =5015, 4.9% defl. Sidewall flattening deforming Jan 14/04)  Rings 1 & 2 (photo).@ c/l, span =5015, 4.9% defl. Sidewall flattening deforming Jan 14/04)  Rings 1 & 2 (photo).@ c/l, span =5015, 4.9% defl. Sidewall flattening deforming Jan 14/04)  Rings 1 & 2 (photo).@ c/l, span =5015, 4.9% defl. Sidewall flattening deforming Jan 14/04)  Rings 1 & 2 (photo).@ c/l, span =5015, 4.9% defl. Sidewall flattening deforming Jan 14/04)					
Measured At Ring No.   Sag (mm)   580   Sag (mm)   580   Sag (mm)   580   Sag (mm)   S		I	3	3	(EST. 10% DEFL INWARD, deformation
Sag (mm)   580					deforming Jan 14/04)
Percent Sag					
Sidewall		580			
Measured Span (mm)         Measured At Ring No.           Deflection (mm)         261           Percent Deflection         N           Floor         N           Bulge (mm)         Image: Comparition of the percent of the per	Percent Sag				
Measured At Ring No.         Deflection (mm)         261           Percent Deflection         N         N           Floor         N         N         N           Bulge (mm)         Weasured At Ring No.         Abrasion (Y/N)         No           Abrasion (Y/N)         No         N         N           Circumferential Seams         N         N         N           Separation (mm)         Separation (mm)         Separation (mm)         Separation (mm)         Fercent Deflection           Longitudinal Seams         N         N         N         N         N         Amount of Caracked Rings (Min. 2, 12:00. 35mm Estimated Jan 14/04)         Jan 1			4	4	
Deflection (mm)   261	• ` ` '				
Percent Deflection					
Floor	Deflection (mm)	261			
Bulge (mm)  Measured At Ring No.  Abrasion (Y/N)  No  Circumferential Seams  Separation (mm)  Longitudinal Seams  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)  No  RING 2, 12:00. 35mm Estimated  Jan 14/04)	Percent Deflection				
Measured At Ring No. Abrasion (Y/N) No  Circumferential Seams N N N Separation (mm)  Longitudinal Seams Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No  No  RING 2, 12:00. 35mm Estimated Jan 14/04)  (RING 2, 12:00. 35mm Estimated Jan 14/04)	Floor		N	N	
Abrasion (Y/N) No  Circumferential Seams N N Separation (mm)  Longitudinal Seams N N N Total No. of Cracked Rings 2 Total No. of Rings with Two Cracked Seams  Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) No  Longitudinal Stagger (Y/N) No	Bulge (mm)				
Circumferential Seams  Separation (mm)  Longitudinal Seams  N N  N  Ring 2, 12:00. 35mm Estimated Jan 14/04)  (RING 2, 12:00. 35mm Estimated Jan 14/04)  (RING 2, 12:00. 35mm Estimated Jan 14/04)  (RING 2, 12:00. 35mm Estimated Jan 14/04)	Measured At Ring No.				
Separation (mm)  Longitudinal Seams  N N  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)  No  N N  (RING 2, 12:00. 35mm Estimated Jan 14/04)  (RING 2, 12:00. 35mm Estimated Jan 14/04)	Abrasion (Y/N)	No			
Longitudinal Seams  N N  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)  No  No  (RING 2, 12:00. 35mm Estimated Jan 14/04)  (RING 2, 12:00. 35mm Estimated Jan 14/04)	Circumferential Seams		N	N	
Total No. of Cracked Rings 2  Total No. of Rings with Two Cracked Seams  Min. Remaining Steel Between Cracks (mm)  Proper Lap (Y/N) No  Longitudinal Stagger (Y/N) No	Separation (mm)				
Total No. of Rings with Two Cracked Seams  Min. Remaining Steel Between Cracks (mm)  Proper Lap (Y/N)  Longitudinal Stagger (Y/N)  No	Longitudinal Seams		N	N	(RING 2, 12:00. 35mm Estimated
Cracked Seams  Min. Remaining Steel Between Cracks (mm)  Proper Lap (Y/N)  Longitudinal Stagger (Y/N)  No	Total No. of Cracked Rings	2			Jan 14/04)
Between Cracks (mm)  Proper Lap (Y/N)  Longitudinal Stagger (Y/N)  No	Total No. of Rings with Two Cracked Seams				
Proper Lap (Y/N) No Longitudinal Stagger (Y/N) No	Min. Remaining Steel				
Longitudinal Stagger (Y/N) No		No			
	Coating		N	N	
Corrosion By Soil (Y/N)			•		
Corrosion By Water (Y/N) Yes		Yes			

		Brid	dge Cu	Ivert Barrel		
<u> </u>			Now	Explanation of Condition		
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa			ı):	, Rise (mm): 5500, Type: SP)		
Camber POS/ZERO/NEG						
Ponding (Y/N)	No					
Fish Passage Adequacy			7			
Baffle		N	N			
(Type:)						
Waterway Adequacy		7	7			
Icing (Y/N)	No					
Silting (Y/N)	No					
Drift (Y/N)	No					
Barrel General Rating		3	3	Cracks & deformation occurred during construction, suspect it will not get worse. GR carried forward		
		D	ownst	ream End		
Culvert Component		Last	Now	Explanation of Condition		
Direction		E				
End Treatment (Concrete, Steel, Others, None)	CONCRETE					
Headwall		6	6	Narrow cracks.		
Collar		4	4	Wide crack south bevel.		
Wingwalls		X	X			
(Shape: )						
Cutoff Wall		N	N			
Bevel End		7	7			
Heaving (mm)	0					
Invert Above/Below Stream Bed						
Above/Below (mm)	800					
Scour Protection		4	6			
(Type:)						
(Avg. Rock Size(mm):)			Ι			
Scour/Erosion		4	6			
Beavers (Y/N)	No					
Downstream End General Ratio	ng	4	4			
				re Usage		
		Last	Now	Explanation of Condition		
Channel (U/S and D/S)		T -	T .			
Alignment		6	6			
Bank Stability			4	U/S bank sloughing.		
HWM (m below Top of Culvert)				HWM not visible.		
Drift (Y/N) No				CONCRETE DEBRIS 10M D/S		
Channel Bottom Degrading/Aggrading				Degrading u/s, stable d/s.		
Pagyara (V/N)	No			1		

Structure Usage							
	Last	Now	Explanation of Condition				
(Fish Compensation Measure 1 : NONE)							
(Fish Compensation Measure 2 : NONE							
Channel General Rating		4					

77311 -1 Bridge Culvert

		Maintenar	nce Recommendations					
Inspector Recommendations	Year	Inspector Comments	Department Cor	nments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING	3							
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUT	OFF							
REPAIR SEAMS								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/N (%)	Now) 33.3/3	Sufficiency Rating (%)	(Last/Now) 44.6/47.5	Est. Repl. Yr 2029	Maint. Re	qd. (Y/N)	No	
Special Comments for Next Inspection			Department Comments					
Maintenance Reviewed By			Date		Estimated Tota	0		
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Eric Carcoux		Previous Assistant's Name					
Next Inspection Date	24-Nov-2013		Previous Inspection Date	us Inspection Date 29-May-2007				
Inspection Cycle (Default) (months)	39							