						e Cuive	ert Insp	ection					
Bridge File Number 77928 -1 Bridge Culvert							CULE						
Year Built 1978							Lot No.		4				
Bridge or Town Name RAINBOW LAKE									Brian Pientsch				
Located Over 2ND ORDER II CREFK, 9,21,1			RDER TRIBUTA (9 21 1 2 WAT	R TRIBUTARY TO SOUSA			Inspector Class		BR CLS A				
Located On 58:04 C1 16.087				<u>.</u>		Assista	Assistant Name		Clem Guenette				
Water Body CL/Year						Assistant Class							
Navigabil. CI./Y	'ear						Inspection Date		11-Jan-2012				
Legal Land Loc	ation	NE SEC	C 36 TWP 109 F	RGE 8 W	6M				Theresa Lacusta				
Longitude, Latitude -119:10:59, 58:30:44						Data E	ntry Date		04-Mar-2012				
Road Authority Alberta Transportation (AIT)					Reviewel Name		Eric Carcoux						
Contract Main. Area CMA01						Dept. Poviower Name			David Morrison				
Clear Roadway/Skew 15 / 28 deg. (RHF)						Dept. Reviewer Name		30-Mar-2012	11				
AADT/Year 740 / 201			011 (A)	11 (A)					ale	30-IVIAI-2012			
Road Classifica	ation	RAU-2 ²	11.8-110					-ор Бу					
Detour Length	(km)	999											
Bridge Culvert	t Inform	ation											
Number of Culv	/erts		1										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	U/S		-	2400		MP	3.8		125X26	7.8	ROUND		
1	MAIN		-	2100		MP	35.4			68X13	4.2	ROUND	
1	D/S		-	2700		MP		13.2		125X26	2.8	ROUND	
Special Feature	es		CONC FLOOR										
Special Feature	es Comr	ment											
					1 14	ilitiaa /l	o o o to d	at)					
Litility Attachme	onte				01	incies (L		al)					
	North	r/\\/				Gas		Sour	nas nineline cro	25565 50m 635	t		
Power						Munici	nal		guo pipolino or				
Others					Proble	m (Y/N)	No						
Remarks													
				A	oproa	ch Road	d / Emb	ankment					
					Last	Now	Explar	nation of	Condi	tion			
Horizontal Aligr	nment				7	7	On curve no passing Eastbound, approx. 400m West, approx 250m						
Vertical Alignm	ent				8	7	East.	Laəi.					
Roadway Width	n (m)		15.000										
Embankment					8	8							
Sideslope (:1)		4.0			-							
(Height of Co	ver(m) :	3)			<u> </u>								
Guardrail (Y/N)	- ()	_ /	No										
Approach Roa	ld / Emb	oankme	nt General Rat	ing	7	7							
						Unetro	am End						
Culvert Component						Last Now Explan			Condi	tion			
Direction				N	1.1011	Expiai		oona					
End Treatment Others, None)	(Concre	ete, Stee	el, STEEL				-						
Headwall			Х	Х									
Collar	Collar			Х	Х								
Wingwalls			Х	X									
(Shape :)	(Shape :)												

			Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
Cutoff Wall		Х	Х					
Bevel End		7	7					
Heaving (mm) 0								
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	150							
Scour Protection		7	N					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 300)								
Scour/Erosion			N	Snow covered				
Beavers (Y/N)	No			Snow covered.				
Upstream End General Rating		7	7					
		Brid	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, F	Rise (mm): 2400, Type: MP)				
Barrel Last Accessible Date	11-Jan-2012							
Special Features								
Special Feature				Under water/ice				
(Туре :)				Concrete floor				
Special Feature								
(Туре :)								
Roof		8	8	Measured above concrete floor & ice.				
Measured Rise (mm)	2058			@ cl				
Measured At Ring No.								
Sag (mm)	Sag (mm)							
Percent Sag								
Sidewall		8	8					
Measured Span (mm)	2396			@ cl Deflection inward				
Measured At Ring No.								
Deflection (mm)	4							
Percent Deflection								
Floor		N	N	Under water/ice.				
Bulge (mm)								
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams		9	9					
Separation (mm)				1				
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		8	8					
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	ZERO							

Bridge Inspection & Maintenance System (Web 2005)

77928 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: U/S, Span	<u>(mm):</u>	, F	Rise (mm): 2400, Type: MP)					
Ponding (Y/N)	No								
Fish Passage Adequacy			8						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		8	8						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel Extension General Ratin	g	8	8						
		Bric	ige Cu	vert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	<u>n (mm</u>):	, Rise (mm): 2100, Type: MP)					
Barrel Last Accessible Date	11-Jan-2012								
Special Features									
Special Feature		8	8	Some visible					
(Type : CONC FLOOR)									
Special Feature									
(Type:)		I							
Roof		6	6	Crease along top of pipe from original installation. At cl above					
Measured Rise (mm)	1942			concrete floor27-May-2010					
Measured At Ring No.									
Sag (mm)	158								
Percent Sag	8								
Sidewall	-	5	5	@ CL					
Measured Span (mm)	1994		-						
Measured At Ring No.				- Denection Inward.					
Deflection (mm)	106								
Percent Deflection	5								
Floor		N	N	Concrete floor					
Bulge (mm)	0			Ice covered.					
Measured At Ring No.				1					
Abrasion (Y/N)	No			1					
Circumferential Seams		5	5						
Separation (mm)	205			1					
Longitudinal Seams		Х	Х						
Total No. of Cracked Rings				1					
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)									
Coating		5	6	Superficial corrosion lower 1/3.					
Corrosion By Soil (Y/N)	No	-	-						
Corrosion By Water (Y/N)	Yes			1					
Camber POS/ZERO/NEG	ZERO								

Bridge Inspection & Maintenance System (Web 2005)

77928 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 2100, Type: MP)					
Ponding (Y/N)	No								
Fish Passage Adequacy			7						
Baffle		Х	Х						
(Туре :)									
Waterway Adequacy		8	8						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		5	5						
		Brid		Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: D/S. Span	(mm):	. 1	Rise (mm): 2700, Type: MP)					
Barrel Last Accessible Date	11-Jan-2012		, ,						
Special Features									
Special Feature				Under water/ice.					
(Туре:)									
Special Feature									
(Туре :)									
Roof		8	8	After concrete floor-almost cl27-May-2010					
Measured Rise (mm)	2722			Ice to crown 2.171m					
Measured At Ring No.									
Sag (mm)	22			_					
Percent Sag	1								
Sidewall	1	8	8						
Measured Span (mm)	2672								
Measured At Ring No.				Deflection inward.					
Deflection (mm)	28			-					
Percent Deflection	1								
Floor	I	N	N	Under water/ice.					
Bulge (mm)									
Measured At Ring No.				-					
Abrasion (Y/N)	No								
Circumferential Seams	1	8	8	Rated grouted connection to centre section.					
Separation (mm)	50		_						
Longitudinal Seams		Х	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)	Longitudinal Stagger (Y/N)								
Coating		8	8						
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								

Bridge Inspection & Maintenance System (Web 2005)

77928 -1 Bridge Culvert

Bridge Culvert Barrel								
Culvert Component			Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: D/S, Span	<u>(mm):</u>	, F	Rise (mm): 2700, Type: MP)				
Ponding (Y/N)	No							
Fish Passage Adequacy		8	5	D/S end is above streambed.				
Baffle		X	Х					
(Type:)								
Waterway Adequacy		8	8					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel Extension General Ratir	ıg	8	8					
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		S						
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	X					
Collar		Х	Х					
Wingwalls		X	Х					
(Shape :)								
Cutoff Wall		Х	X					
Bevel End	Bevel End		7					
Heaving (mm)	0							
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	800		-					
Scour Protection		7	N	Snow covered				
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 450)								
Scour/Erosion		7	N	Snow covered.				
Beavers (Y/N)	Yes							
Downstream End General Ration	ng	7	7					
		S	structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)		-	-					
Alignment		7	7					
Bank Stability			6	Bank sloughing D/S.				
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	No							
Channel Bottom Degrading/Aggrading	Channel Bottom DEGRADING Degrading/Aggrading			20m d/s.				
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating			7					

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Comn		Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC												
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	55.6/55.	6 Sufficiency Rating (%)	g (Last/Now)	66.7/67.8 Est. Repl. Yr 2018		2018	Maint. Reqd. (Y/N)		No		
Special Comments for Next Inspection					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		Previous	revious Assistant's Name Lisbeth M			Medina				
Next Inspection Date 11-00		-2013		Previous	us Inspection Date 27-May-2010							
Inspection Cycle (Default) (months)	21					-						
Comment												