Bridge Culvert Inspection														
Bridge File Nur	mber	79009 -1	Bridge Culver	rt .			·		CULE					
Year Built 1984								71		4				
Bridge or Town Name RAINBOW LAKE									Brian Pientsch					
Located Over			DER TRIBUTA	ARY TO S	SOUSA	4	·		BR CLS A					
			, 9.21.1.1.1, WATERCRS-ST				Assistant Name		Clem Guenette					
Located On	1 29.611	611			Assistant Class		Olem Gashelle							
Water Body Cl./Year							Inspection Date		11-Jan-2012					
Navigabil. Cl./Year							·			Theresa Lacusta				
Legal Land Loc	30 TWP 110 RGE 6 W6M					ntry Date		27-Feb-2012						
			34, 58:34:38					Reviewer Name		Eric Carcoux				
Road Authority Alberta Tr		Fransportation (AIT)					Review Date		26-Feb-2012					
Contract Main. Area CMA01							Dept. Reviewer Name		David Morrison					
Clear Roadway	//Skew	14.6 /								30-Mar-2012				
AADT/Year		740 / 20					Follow-	Up By						
Road Classifica		RAU-21	1.8-110				-							
Detour Length		999												
Bridge Culver														
Number of Cul		1						l		I	I			
Pipe #	Barrel		Span	Rise (or	Rise (or Dia.)			Length		Corr. Profile	PI./Slab Thickness	Shape		
1	U/S	-		2700		MP		2.8		125X26	2.8	ROUND		
1	MAIN	-		2400		MP		32		68X13	4.2	ROUND		
1	D/S	-		2700		MP		3.6		125X26	2.8	ROUND		
Special Feature	es	(	CONC FLOOR											
Special Feature	es Comi	ment												
								4)						
Liche Arr I					Uti	ilities (L	ocated	at)						
Utility Attachme			ul				Gas							
Telephone		optic Nort - North r					Municipal							
Power	/ wire	: - NOITH I	/ W				Problem (Y/N) No							
Others Remarks							Problei	II (Y/N)   IN	0					
Remarks				Δι	anroad	ch Road	l / Emb	ankment						
					Last	Now	Explanation of Condition							
Horizontal Align	nment				9	9								
Vertical Alignm					8	8								
			45.000											
Roadway Widtl	n (m)		15.000											
Embankment						7	3 m berm each side.		e.					
Sideslope (	_:1)		4.0	4.0										
(Height of Co	ver(m) :	1.4)												
Guardrail (Y/N)	)		No											
Approach Roa	d / Em	hankman	t General Bot	ina	8	8								
Арргоасіі КО	au / EIIII	Jankinen	Control Kati	y	0	0								
							am End							
Culvert Component				Last	Now	Explan	Explanation of Condition							
Direction End Treatment (Concrete, Steel, STEEL			N		_									
Others, None) Headwall				X	Х									
Collar			X	X										
Wingwalls				X	X									
	(Shape: )						1							
(Chape.)							1 of 5							

	Last X		am End Explanation of Condition
		NON	Explanation of Condition
		X	•
	^	^	
	9	8	
LOW			
0			
	8	8	
	8	8	
)			
	8	8	
			vert Barrel
			Explanation of Condition
Code: U/S, Span (	<u>mm):</u>	, R	Rise (mm): 2700, Type: MP)
-Jan-2012			
			Concrete floor
			Under water/ice
	8	8	
77			@ cl above concrete floor-28-May-2010
			-
			1.81m ice to crown
	8	7	
58			@ cl of u/s extension.
2			Deflection inward.
	N	N	Under water/ice concrete floor.
	9	7	Rated concrete connection to main barrel.
	Х	Х	
	8	8	
)	-		
i			
77	77	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 8 7 8 8 8 9 7 8 8 9 7 X X X

		Brio	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: U/S, Span	(mm):	, F	Rise (mm): 2700, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Rating			7	
		Brio	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 2400, Type: MP)
Barrel Last Accessible Date	11-Jan-2012			
Special Features				
Special Feature		N	N	Under water/ice.
(Type : CONC FLOOR)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm) 2135				Estconcrete on floor.
Measured At Ring No.				1.299 ice to crown
Sag (mm)	265			
Percent Sag				
Sidewall		8	7	
Measured Span (mm)	2502			@ C.L. 200mm x 1700mm. Construction dent from 2 to 4m at u/s.
Measured At Ring No.				Connection with the 2700mm CSP section.
Deflection (mm)	102			
Percent Deflection	4			
Floor	T	N	N	Concrete floor. Under water.
Bulge (mm)	0			onder water.
Measured At Ring No.				
Abrasion (Y/N)	Yes		1	
Circumferential Seams		5	5	@D/S seam @ 12 o'clock
Separation (mm)	125		1	
Longitudinal Seams		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		4	4	Superficial rust lower 1/328-May-2010
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

		Brid	lge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	):	, Rise (mm): 2400, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	7	
		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		Х	Х	
(Shape: )				
Cutoff Wall		X	X	
Bevel End		9	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	150		1	
Scour Protection		8	N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		8	N	Snow covered
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	8	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)			1	
Alignment		7	7	
Bank Stability		5	5	Banks sloughing d/s.
HWM (m below Top of Culvert)				No HWM visible
Drift (Y/N) No				
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	· · · · · · · · · · · · · · · · · · ·			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		5	5	

					Maintenance R	ecommend	lations					
Inspector Recommendations			ear I	nspector	Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAI	IRS											
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRET	E COLLAR/CUTC	)FF										
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			5.6/77.8		Sufficiency Rating (Last (%)	/Now)	68.1/79.1	Est. Repl. Yr	2028	Maint. Re	eqd. (Y/N)	No
Next Inspection   wa	cluded in one 'Bric as a 'Bridge Culve 28-May-2010	lge Culver rt Barrel' s	rt Barrel	part of the ma	he Inspection form. As beain pipe and one for each each	fore there extension.	Comments					
Maintenance Reviewed By							Date		Е	Estimated Tota	ıl O	
Proposed Long-Term	Strategy											
On 3-Year Program (	Y/N)											
Proposed Action												
Previous Inspector's Name Brian		Brian Pientsch			Previous	Previous Assistant's Name Lisbeth Medina						
		11-Oct-20	11-Oct-2013				Previous Inspection Date 28-May-2010					
Inspection Cycle (Def		21										
Comment												