Bridge Culvert Inspection													
Bridge File Number 71879 -1 Bridge			-1 Bridge Culve	3ridge Culvert			Form Type		CULM				
Year Built/Lined 1979/200			000				Lot No.		4				
Bridge or Town	Name	CREM	NA				Inspector Name			Owen Salava			
Located Over TRIBUTA				ARY TO LITTLE RED DEER RIVI			Inspector Class			BR CLS A			
Logated On		3.09.10	1 8 623				Assistant Name						
Localed Off 22.18 CT			1 6.623				Assista	Assistant Class					
Navigabil CL/X	/ real						Inspection Date			22-Oct-2012			
Navigabil. Cl./Year				Data Entry By			Marcia Chavez						
Legal Land Location SW SEC			0.52 51.27.20		Data Entry Date			08-Nov-2012					
Pood Authority Alberto Tu			Transportation		Reviewer Name			John O'Brien					
Contract Main Area CMA28							Review Date			30-Oct-2012			
Clear Roadway		11 / -10) deg (LHE)				Dept. F	Reviewer Na	me	Andrew Smikle	es		
	JOKEW	3 0/0 /	2011 (A)				Dept. Review Date			13-Nov-2012			
Road Classifica	ation	RΔ11-2	11 8-110				Follow	∙Uр Ву					
Detour Length ((km)	8	11.0 110				-						
Bridge Culvert		ation											
Number of Culv	/erts	ation	2										
Pipe #	Barrel		_ Span	Rise (or	Dia.)	Туре		Lenath		Corr. Profile	PI./Slab	Shape	
	24.10				,	.) P 0					Thickness		
1	MAIN		1724	1901		SPE		125		152X51	3.5,4.2	ELLIPSE	
3	MAIN F	ULL	-	600		SSP		110				ROUND	
Special Feature	25			1									
Special Feature	es Comr	ment											
- P													
					Uti	lities (L	ocated	at)					
Utility Attachme	ents												
Telephone West ditch.						Gas							
Power							Munici	Municipal					
Others							Problem (Y/N) No						
Remarks													
				A	oproac	h Road	d / Emba	ankment	4 : ام ما	lon			
Horizontal Alian	mont				Last	NOW	No passing NB sad curve horizontal curve Superelevated						
Vortical Alignme					6	6							
Poodwov Width			11.000		0	0							
	1 (11)		11.000										
Embankment					N	5	(600mm plastic pipe @ NE ditch erosion - photo. 14.0m to 914mm						
Sideslope (_:1)		3.0	3.0				aia pipe. Ditch erosion NE corner - photo. Pipe is 90% exposed.					
(Height of Co	ver(m) :	16)											
Guardrail (Y/N)			Yes										
Approach Roa	d / Emb	bankme	nt General Rat	t General Rating		6							
				Unstre	am End								
Culvert Compo	Culvert Component			Last	Now	Explan	ation of Co	ndit	ion				
(Pipe # : 1, Sp	an Type	e: Prima	ary Span)										
Direction	71		/		E								
End Treatment Others, None)	(Concre	ete, Stee	el, STEEL		_								
Headwall					Х	X							
Collar				X	X								

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Wingwalls		X	X	
(Shape :)				
Cutoff Wall			Х	
Bevel End	-	7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		N	7	
(Type : RIP RAP)				-
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1724	, Rise (mm): 1901, Type: SPE)
Barrel Last Accessible Date	22-Oct-2012			Water Pipe. "5" Water pipe @ E side, S of primary pipe drains down embankment to creek. Flows in winter.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Туре :)				
Roof		N	6	
Measured Rise (mm)	1850			
Measured At Ring No.	16			
Sag (mm)	50			2.6%
Percent Sag	3			
Sidewall		N	6	
Measured Span (mm)	1710			
Measured At Ring No.	16			
Deflection (mm)	14			- 0.8%
Percent Deflection	1			
Floor		Ν	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	
Separation (mm)	0			
Longitudinal Seams		N	6	
Total No. of Cracked Rings 0				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	lge Cu	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 1724	, Rise (mm): 1901, Type: SPE)
Coating		N	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			Pipe sweeps to the North @ U/S end.
Ponding (Y/N)	No			
Fish Passage Adequacy			7	
Baffle		Х	Х	
(Type :)				
Waterway Adequacy		6	6	(92/11/18 - Ices to within 300mm of roof. 94/10/13). Icing from water
Icing (Y/N)	Yes			pipe flow.
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	6	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	v Span)	1	1	
Direction	• *	W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall	1	Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape :)		1		
Cutoff Wall		X	X	
Bevel End	I	7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		N	7	Grown in.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)		1		
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	7	7	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	ary Span)			
Direction		Е		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall	·	X	Х	
Collar		Х	Х	
				1

	am End			
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	lary Span)			
Wingwalls		Х	X	
(Shape :)				
Cutoff Wall			Х	
Bevel End		7	7	CSP bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	2000			
Scour Protection	•	N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dge Cul	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 600, Type: SSP)
Barrel Last Accessible Date	15-Jul-2003			Too small to enter, confined space. Viewed from ends, looks OK.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
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)				

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Culvert Component		Last	Now	Explanation of Condition
(Pine # : 3 Secondary Span Lo	cation Code: MAIN	nan (r	nm).	Rise (mm): 600 Type: SSP)
Costing	cation code. MAIN, C		<u>м</u>	, Kise (min). 000, Type. 001 /
Corrosion By Soil (Y/N)			IN	
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG NEG				
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	X	
Baffle		Х	Х	
(Туре :)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	G.R. was "6" from 15/July/2003.
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	lary Span)			
Direction		W		
End Treatment (Concrete, Steel, Others, None)	End Treatment (Concrete, Steel, STEEL Others, None)			
Headwall		X	X	
Collar		Х	X	
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	CSP bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1500		1	
Scour Protection		N	7	
(Type : RIP RAP)				-
(Avg. Rock Size(mm) : 200)			1	
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Ratir	ng	7	7	
		s	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)			-	No HWM visible.
Drift (Y/N)	No			

Structure Usage									
		Last	Now	Explanation of Condition					
Channel Bottom Degrading/Aggrading									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		7	7						

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Comm		Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LININ	G											
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUT	OFF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION										_		
OTHER ACTION												
Structural Condition Rating (Last/ (%)	Now)	55.6/66.7 Sufficiency Rating (Last/N (%)		ow) 5	9.2/64.8 Est. Repl. Yr 2028		2028	Maint. Reqd. (Y/N) N		No		
Special Monitor NE bank/o Comments for Next Inspection	pecial comments for lext Inspection											
Maintenance Reviewed By					Date		1	Estimated Total	0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Owen	Salava	F	Previous Assistant's Name								
Next Inspection Date 22-Ju		2014	F	Previous I	nspection Date	07-Feb-2011						
Inspection Cycle (Default) (months)	21											
Comment												