Bridge Culvert Inspection													
Bridge File Number 71		71809 -1	71809 -1 Bridge Culvert				Form Type		CUL1				
Year Built 1955						Lot No.			4				
Bridge or Town	Name	RICINUS	NUS				Inspector Name		Owen Salava				
Located Over		ALFORE	D CREEK, 6.15	59.12, WA	TERC	RS-ST	Inspector Class		BR CLS A				
Located On		591:02 0	24.706				Assistant Name						
Water Body Cl.	/Year							nt Class					
Navigabil. CI./Y	'ear							ion Date		24-Oct-2011			
Legal Land Loc	ation	SW SEC	2 16 TWP 36 RGE 7 W5M				Data Entry By			Marcia Chavez			
Longitude, Latitude -114:56:		:37, 52:05:10					ntry Date)	28-Nov-2011				
Road Authority Alberta		Alberta 7	rta Transportation (AIT)					er Name)	John O'Brien			
Contract Main. Area CMA18		CMA18	.18					Review Date		14-Nov-2011			
Clear Roadway/Skew 7.9 /		7.9/			Dept. Reviewer Name			Andrew Smikles					
AADT/Year		490 / 20	10 (A)				Dept. Review Date		02-Dec-2011				
Road Classifica	ation	RCU-209	-209-110					Follow-Up By					
Detour Length	(km)	50											
Bridge Culvert Information													
Number of Culv	/erts	1	1										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре	Length			Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	2	2489	1752		RPP		20.1		152X51	2.8	PIPE ARCH	
Special Feature	es												
Special Feature	Special Features Comment												
					+;	litios (l	ocated	at)					
Litility Attachme	ents				01	inties (i	ocaleu	aty					
Telephone	In r/w	to South	in South Gas										
Power	2 wire	s 15m No	orth of c/l				Municipal						
Others	2 110					Problem (Y/N) No							
Remarks					1.10								
				A	pproa	ch Road	d / Emba	ankment					
						Now	Explanation of Condition						
Horizontal Alignment				8	8	Typical approaches both sides of culvert.							
Vertical Alignment				9	9								
Roadway Width (m)		7.900											
Embankment			6 9			9	End of culvert at crown 1.5m from shoulder of road on North end						
Sideslope (_:1)		2.0				U/S. Slight settlement over pipe 2 transverse cracks over nine, previously						
(Height of Co	ver(m) :	0.6)				sealed.							
Guardrail (Y/N)	Guardrail (Y/N) Yes												
Approach Roa	d / Eml	bankmen	t General Rat	ing	8	8							
						Upstre	am End						
Culvert Component			Last	Now	Explanation of Condition								
Direction			N										
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall			X	X									
Collar				X	Х								
Wingwalls		Х		X									
(Shape :)													
Cutoff Wall				X	Х								

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	Upstream End										
Culvert Component		Last	Now	Explanation of Condition							
Bevel End		5	5	Minor damage to bevel end at roof.							
Heaving (mm)	0										
Invert Above/Below Stream Bed BELOW				-							
Above/Below (mm) 150											
Scour Protection		N	5	-							
(Type : RIP RAP)				-							
(Avg. Rock Size(mm) : 200)		1	1								
Scour/Erosion		N	5								
Beavers (Y/N)	No										
Upstream End General Rating		5	5								
		Brid	lge Cu	lvert Barrel							
Culvert Component		Last	Now	Explanation of Condition							
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2489, Rise (mm): 1752, Type: RPP)											
Barrel Last Accessible Date	24-Oct-2011										
Special Features											
Special Feature											
(Type:)											
Special Feature											
(Type:)											
Roof		6	6								
Measured Rise (mm)	1708										
Measured At Ring No.	Measured At Ring No. 3										
Sag (mm) 44				2.5%							
Percent Sag	2										
Sidewall		5	5								
Measured Span (mm)	2370										
Measured At Ring No.	3										
Deflection (mm)	119										
Percent Deflection	5										
Floor		N	5								
Bulge (mm)											
Measured At Ring No.											
Abrasion (Y/N)											
Circumferential Seams		5	5	2 bolts have loose nuts.							
Separation (mm)											
Longitudinal Seams		5	5								
Total No. of Cracked Rings	0										
Total No. of Rings with Two Cracked Seams	0			1N Stagger							
Min. Remaining Steel Between Cracks (mm)											
Proper Lap (Y/N)	No			1							
Longitudinal Stagger (Y/N) Yes				1							
Coating		5	5	Superficial corrosion lower 1/3							
Corrosion By Soil (Y/N)	Yes										
Corrosion By Water (Y/N)	Yes			1							
Camber POS/ZERO/NEG	NEG			Est 200mm neg camber.							
Ponding (Y/N)	No										

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Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel										
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, S	pan (mm): 2489	, Rise (mm): 1752, Type: RPP)						
Fish Passage Adequacy		7	7							
Baffle		Х	Х							
(Туре :)			-							
Waterway Adequacy		7	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating			5							
	Downstream End									
Culvert Component		Last	Now	Explanation of Condition						
Direction	1	S		-						
End Treatment (Concrete, Steel, Others, None)	STEEL		1							
Headwall			X							
Collar			X							
Wingwalls			X							
(Shape :)			-							
Cutoff Wall		X	X							
Bevel End		7	7							
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	300									
Scour Protection			5							
(Type : RIP RAP)				-						
(Avg. Rock Size(mm) : 200)			1							
Scour/Erosion		N	5							
Beavers (Y/N)	eavers (Y/N) No									
Downstream End General Ratin	ng	4	5							
		s	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			6							
Bank Stability			5	No erosion to channel banks.						
HWM (m below Top of Culvert)			-	(HWM to top of pipe from recent flood. June 28/05). No visible HWM.						
Drift (Y/N)	Yes									
Channel Bottom DEGRADING Degrading/Aggrading										
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating			6							

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/CUTC	DFF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow)	55.6/55.	6 Sufficiency Rating (Last/N (%)	low) t	58.3/59.3	Est. Repl. Yr	2023	Maint. Re	qd. (Y/N)	No	
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date	Pate Estimated Total 0					
Proposed Long-Term Strategy 2004.12.27 Culvert should be good with minor maintenance until 2015.								j			
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Owen S	wen Salava Previo			Assistant's Name						
Next Inspection Date 24-Ja		24-Jan-2015			nspection Date						
Inspection Cycle (Default) (months) 39			I.			1					
Comment											