					Bridg	je Culve	rt Insp	ection						
Bridge File Nur	mber	74569	-1 Bridge Culve	rt			Form 7	Гуре		CUL1				
Year Built		1989					Lot No			3				
Bridge or Town Name STIRLING Located Over ETZIKOM COULEE, 11.9, WAT						Inspec	tor Name		Jon Davies					
Located Over		ETZIKO	ETZIKOM COULEE, 11.9, WATER				Inspec	tor Class		BR CLS B				
Located On		61:02 0	:02 C1 6.052				Assista	ant Name						
Water Body Cl./Year Navigabil. Cl./Year								ant Class						
Navigabil. Cl./Year						Inspec	tion Date		28-Mar-2013					
Legal Land Location SW SEC 6 TWP 7 RGE 18 W4M				/		Data E	ntry By		Lauren Korte					
Longitude, Latitude -112:26:20, 49:31:32						Data E	intry Date	<b>:</b>	08-Apr-2013					
Road Authority Alberta			Transportation	(AIT)			Reviev	Reviewer Name Garry Roberts						
Contract Main. Area CMA24		ļ				Reviev	v Date	07-Apr-2013						
Clear Roadway/Skew 10 /		10 /					Dept. F	Dept. Reviewer Name Tim Davies						
AADT/Year 5		540 / 2012 (A)					Dept. Review Date 22-Apr-2013							
Road Classification		RAU-20	RAU-209-110				Follow-Up By		·					
Detour Length (km) 6		6												
Bridge Culvert	t Inform	ation												
Number of Culv	verts		1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		6898	4224		RPA	21.3		152X51	4.0,5.0	ARCH			
Special Feature	es													
Special Feature	es Comr	ment												
I Itility . Attack me					Ut	ilities (L	ocated.	at)						
Utility Attachme	ents						0		1					
Telephone							Gas							
Power							Munici							
Others Fibre optic cable North ditch.  Remarks					Proble	m (Y/N)	No							
Remarks				Λ.		ah Daar	l / Emb	ankment						
				Α	Last	Now		ankmenu nation of		tion				
Horizontal Aligr	nment				7	7		ction We		tion				
					9	9	interse	Ction we.	Si.					
Vertical Alignment  Roadway Width (m) 10.000		9												
Embankment					8	7								
	.1\		4.0		0									
Sideslope (		0.0	4.0											
(Height of Cover(m) : <b>0.6</b> )  Guardrail (Y/N)  Yes					Mower damage at SW wingend									
Approach Roa	ad / Emb	oankme	ent General Rat	ing	7	7								
								1						
Culvert Comp	onont				Last	Upstre: Now		nation of	Candi	tion				
Direction	onent				Lasi	INOW	North 6		Contai	шоп				
End Treatment	(Concre	ete, Stee	el, CONCRETE				INOILII	Jilu.						
Others, None) Headwall					8	8								
Collar			8	8										
Wingwalls			8	8										
(Shape : FLARE)														
Cutoff Wall				N	N									

			Hasta	om End				
Culvert Comment				Explanation of Condition				
Culvert Component		Last	Now	Explanation of Condition				
Bevel End		7	7					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	400		Τ_					
Scour Protection		7	7					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : <b>450</b> )			1					
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Upstream End General Rating		7	7					
		Brie	dge Cu	lvert Barrel				
Culvert Component				Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,							
Barrel Last Accessible Date	21-Jan-2009			High water level and thin ice				
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type:)								
Roof		N	N	(est)21- Jan -2009				
Measured Rise (mm)	4224			PR 8				
Measured At Ring No.				Viewed from ends, shape is good				
Sag (mm)	0							
Percent Sag								
Sidewall		N	N	(Isolated rock dent centerline East wall - minor.) 21- Jan -2009				
Measured Span (mm)	6898	- 14		PR 7				
Measured At Ring No.	5							
Deflection (mm)	0			-				
Percent Deflection								
		NI NI	NI.	(Average 200mm does gift with 700mm water) 24 Jan 2000				
Floor	0	N	N	(Average 300mm deep silt with 700mm water.) 21- Jan -2009				
Bulge (mm) Magaurad At Bing No.	U							
Measured At Ring No.								
Abrasion (Y/N)				DD 0				
Circumferential Seams		N	N	PR 8				
Separation (mm)	0							
Longitudinal Seams		N	N	PR 8				
Total No. of Cracked Rings	0							
Total No. of Rings with Two Cracked Seams	0							
Min. Remaining Steel Between Cracks (mm)	0							
Proper Lap (Y/N)	Yes							
Longitudinal Stagger (Y/N)	No							
Coating		N	N	(Minor superficial rust on isolated rock dent.)21- Jan -2009				
Corrosion By Soil (Y/N)								
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							

		Bric	lge Cul	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	): 6898	, Rise (mm): 4224, Type: RPA)
Fish Passage Adequacy		8	8	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	PR 8
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction				South end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	8	
Wingwalls		8	8	
(Shape: )				
Cutoff Wall		N	N	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	7	7	
		s	tructur	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Curves up & down stream
Bank Stability		5	5	Slumping U/S East bank 5m x 8m
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			Rock 0.7m high @ U/S end.
Beavers (Y/N) No				
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		6	6	

74569 -1 Bridge Culvert

Bridge Inspection & Maintenance System (Web 2005)

		Maintenance Rec	ommendations				
Inspector Recommendations	Year	Inspector Comments	Department Comm	nents	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING	3						
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTO	OFF						
REPAIR SEAMS							
OTHER ACTION	2013	Replace wing end at SW					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/N (%)	ow) 55.6/55	Sufficiency Rating (Last/No. (%)	ow) 72.3/72.2	Est. Repl. Yr 20-	45 Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Tota	I 0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Jon Davies		Previous Assistant's Name				
Next Inspection Date	28-Dec-2014		Previous Inspection Date	15-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							