					Bride	o Culvo	rt Inch	action						
Bridge File Number 72079 -1 Bridge Culvert					Dilug	Bridge Culvert				CUL1				
Year Built 1986						Ţ.		1						
Bridge or Town Name GEM							Lot No.			<u> </u>				
Located Over	I Ivallie	2ND ORDER TRIBUTARY TO MATZHIWIN					Inspector Name Inspector Class			Tom Carey BR CLS A				
Localed Over			3.14.3.1, WA			TIVVIIN	Assistant Name		BR CLS A					
Located On		862:04 (862:04 C1 13.560					Assistant Class						
Water Body Cl./Year					Inspection Date		09-Feb-2010							
Navigabil. Cl./	Year							ntry By		Erin Roberts				
		SW SEC 1 TWD 24 DGE 16 WAM					Data Entry Date			08-Mar-2010				
Longitude, Latitude		-112:06:45, 51:00:31					Reviewer Name							
Road Authority		Alberta Transportation (AIT)					Review Date		Garry Roberts 24-Feb-2010					
		CMA23							Nama					
Clear Roadway	y/Skew	8.5 /								Lorenz Bohnert				
AADT/Year		110 / 20	08 (A)				Dept. Review Date Follow-Up By		alc	09-Mar-2010				
Road Classific	ation	RCU-20	RCU-209-110				rollow-up By							
Detour Length	(km)	10												
Bridge Culver	t Inform	nation												
Number of Cul	verts		1											
Pipe #	Barrel		Span	Rise (or [Dia.)	Туре	Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN		-	2200		MP		25		125X26		ROUND		
Special Featur	es					100						<u> </u>		
Special Featur	es Com	ment												
					Ut	ilities (L	ocated	at)						
Utility Attachm									I					
Telephone south							Gas							
Power	·					Municipal Problem (Y/N) No								
Others					Problem (Y/N) No			NO						
Remarks				۸۵	nroo	oh Boos	l / Emb	ankment						
						_	1	ation of	Condi	tion				
Horizontal Alig	nment				9	9	LAPIGI		Oonai	LIOII				
Vertical Alignm					7	7								
		8.720		<u> </u>										
	()													
Embankment					7	N	Snow							
Sideslope (_			3.0											
(Height of Co		: 1.5)												
Guardrail (Y/N)		No											
Approach Roa	ad / Eml	bankmen	nt General Rat	ing	7	7								
						Upstre	am End							
Culvert Comp	onent				Last	Now		ation of	Condi	tion				
Direction					N		NORT							
End Treatment Others, None)	t (Concr	ete, Steel	I, STEEL											
Headwall					Х	X								
Collar				Х	Х									
Wingwalls			X	X										
(Shape:)														
Cutoff Wall					Х	Х								

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		4	4	rusty & roof bent/DAMAGED
Heaving (mm)	0			pitting- perforations at West
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection	,	6	N	(SMALL RIPRAP)
(Type : RIP RAP)				
(Avg. Rock Size (mm) : 150)				Snow
Scour/Erosion		6	N	
Beavers (Y/N)	No			
Unatesam Fred Canaval Batine		4		
Upstream End General Rating		4	4	
		Bri	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,			
Barrel Last Accessible Date	09-Feb-2010			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	Est
Measured Rise (mm)	2150			
Measured At Ring No.				
Sag (mm)	50			
Percent Sag	2			
Sidewall		7	3	Scaling and pitting corrosion
Measured Span (mm)	2250	- '	<u> </u>	
Measured At Ring No.	1			2 perforations 20mm dia. seen at East side
Deflection (mm)	50			
Percent Deflection	2			-
				· LIMPD
Floor		N	N	ice covered- IMPD
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		6	5	At U/S seam
Separation (mm)	90			
Longitudinal Seams		X	X	
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)				
Longitudinal Stagger (Y/N)				
Coating		4	3	Heavy pitted and flaing rust- all along sidewall
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			2- 20mm dia. perforations at East side
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

72079 -1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2200, Type: MP)										
Fish Passage Adequacy		Х	X							
Baffle			Х							
(Type:)										
Waterway Adequacy		7	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating			3							
		D	ownstr	ream End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		S		South						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	X							
Collar		Х	X							
Wingwalls		Х	X							
(Shape:)										
Cutoff Wall		Х	X							
Bevel End		4	4	Heavy pitting & Flaking						
Heaving (mm)										
Invert Above/Below Stream Bed	BELOW			Ice						
Above/Below (mm)	800									
Scour Protection		6	N	Snow						
(Type : RIP RAP)										
(Avg. Rock Size (mm) : 150)										
Scour/Erosion		6	N							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	4	4							
		s	tructu	re Usage						
			Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		7	7							
Bank Stability		7	7							
HWM (m below Top of Culvert)				No visible HWM						
Drift (Y/N)	No									
Channel Bottom AGGRADING Degrading/Aggrading										
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 : NONE)										
Channel General Rating			7							

		Maintenance I	Recommend	ations					
Inspector Recommendations	Year	Inspector Comments		Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	G 2015	or 2020: Plan for a liner in 5-10 year	ars						
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) 77.8/33	.3 Sufficiency Rating (Las	t/Now)	71.9/52.2	Est. Repl. Yr	2018 Maint. Re		qd. (Y/N)	Yes
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Tim Davies		Previous A	Assistant's Name					
Next Inspection Date	09-May-2013		Previous	nspection Date	30-Jan-2007				
Inspection Cycle (Default) (months)	39			•	,				
Comment									