				Bride	a Culva	ert Inspection						
Bridge File Number	79127 -1 Bridge Culvert			Billag	e Cuive	Form Type		CUL1				
Year Built 1979						Lot No.		2				
Bridge or Town Name BARRHEAD						Inspector Nam	Α	Melanie Johnson				
Located Over CONNOR CREEK, 8.11.84.30.				 6		Inspector Class		BR CLS B	3011			
WATERCRS-ST						Assistant Name		BIX OLO B				
Located On 18:06 C1 23.004						Assistant Class						
Water Body Cl./Year						Inspection Date		27-Aug-2011				
Navigabil. Cl./Year						Data Entry By		Theresa Lacu	sta			
Legal Land Location SE SEC 13 TWP 58 RGE 7 W5M				M		Data Entry Date 13-Sep-2011						
Longitude, Latitude -114:53:47, 54:00:39						Reviewer Name Eric Carcoux						
Road Authority Alberta Transportation (AIT)						Review Date		07-Sep-2011				
Contract Main. Area	CMA10					Dept. Reviewe	r Name	_				
Clear Roadway/Skew	11.2 / -2	0 deg. (LHF)				Dept. Review [15-Sep-2011				
AADT/Year	10 (A)				Follow-Up By							
Road Classification	RAU-21	1.8-110										
Detour Length (km)	3											
Bridge Culvert Inform												
Number of Culverts	1	•	1					I	1			
Pipe # Barrel	8	Span	Rise (or I	Dia.)	Туре	Length		Corr. Profile	Pl./Slab Thickness	Shape		
1 MAIN	3	3800	4190		SPE	39.6		152X51	3.0	ELLIPSE		
Special Features			1.00		J	33.0			10.0			
Special Features Com	ment											
				Ut	ilities (L	ocated at)						
Utility Attachments						I						
Telephone West r/w.						Gas						
Power 1 line West r/w.					Municipal							
Others						Problem (Y/N)	No					
Remarks			Δ		-l- Daa	l / Embanton	,					
			Αļ		_	Explanation o		tion				
Horizontal Alignment				6	6	SH intersection 300 m South.						
Vertical Alignment			7	7	On curve and long sag curve. No passing. Superelevated over p							
vertical / digitalent						New asphalt patch over pipe.						
Roadway Width (m) 11.200												
Embankment			6	6								
Sideslope (:1) 3.0			0	0	_							
(Height of Cover(m)	. 3 3)	0.0				-						
Guardrail (Y/N)	. 0.0)	Yes										
- 20. 0. 3 (17.1)												
Approach Road / Em	bankmen	t General Rat	ing	6	6							
					Unctre	am End						
Culvert Component				Last	Now	Explanation o	f Condi	tion				
Direction				W	1.1044		. Jonah					
End Treatment (Conci Others, None)	rete, Steel	CONCRETE										
				Х	X							
Headwall			Collar			Apron slab next to collar settled 300mm. Wide transverse crack @ corners (typ).						
Headwall				4	4	Apron slab nex Wide transvers	t to colla e crack	ar settled 300m @ corners (tvr	nm. o).			
Headwall				4 X	4 X	Apron slab nex Wide transvers	t to colla se crack	ar settled 300m @ corners (typ	nm. o).			

			Unotro	om End
Culvert Component		Last	Now	am End Explanation of Condition
Cutoff Wall		N	N	Explanation of Condition
Caton Wan			'`	
Bevel End		5	5	
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1300		_	
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		5	5	
Beavers (Y/N)	Yes			Drift/beaver debris at inlet.
Upstream End General Rating		4	4	
			lara A	hart Parrel
Culvert Component				vert Barrel Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Codo: MAIN Sn			
		an (IIIIII). 3000	
Barrel Last Accessible Date	09-Sep-2000			Water ~ 2m deep. Viewed from ends - shape appears adequate.
Special Features		·		
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	(Measured to ice at inlet 1.65, 3rd seam from outlet .914 and 1.346
Measured Rise (mm)				at outlet. Therefore sag is 584 mm minus negative camber. 99/01/04)
Measured At Ring No.				Roof sag observed @ about c/l09-Sep-2000
Sag (mm)	400			
Percent Sag				
Sidewall		N	N	(Assume sag is 400 and deflection is 400. Deflections are 10.9%.
Measured Span (mm)				(On safe side. 99/01/04) (Viewed from ends.
Measured At Ring No.				3491 @ R1 = 4mm
Deflection (mm)	400			3632 @ R3 = 137mm, 3.9%-09-Sep-2000)
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams		N	N	(Cracked rings appear likely. Sides are wavy. 2002/04/17)
Total No. of Cracked Rings				(Plates @ R5 are not properly nested 09-Sep-2000)
Total No. of Rings with Two Cracked Seams				1N
Min. Remaining Steel Between Cracks (mm)] _1N
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	Heavy rust up to 3/4 pipe.
Corrosion By Soil (Y/N)	Yes			1
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

		Brio	ige Cul	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 3800	, Rise (mm): 4190, Type: SPE)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	Yes			09-Sep-2000
Silting (Y/N)	Yes			
Drift (Y/N)	Yes			
Barrel General Rating		3	3	G.R. carried forward since 09/Sept/2000.
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		Е		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		N	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	N	5	
		s	tructur	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)				
Drift (Y/N)	Yes			Drift caught @ upstream end of pipe at crown.
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

		Maint	nance Recommendations					
Inspector Recommendations	Department Con	nments	Та	arget Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING	3							
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUT	OFF							
REPAIR SEAMS								
OTHER ACTION	2011	Remove drift.						
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/N(%)	low) 33.3/33	Sufficiency Rat	ng (Last/Now) 48.4/48.4	Est. Repl. Yr	2020	Maint. Re	qd. (Y/N)	Yes
Special Schedule next inspection Schedule next inspection	pection in winter	to confirm condition.	Department Comments					
Maintenance Reviewed By			Date		Esti	mated Tota	1 0	
Proposed Long-Term Strategy					,			
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Melanie Johns	on	Previous Assistant's Name					
Next Inspection Date 27-May-2013 Pre		Previous Inspection Date	ous Inspection Date 05-Nov-2009					
Next Inspection Date	27-May-2013		1 TO TIO GO INOPOOLION BULO					
Next Inspection Date Inspection Cycle (Default) (months)	21 21		T TOVIOUS INSPECTION BUILD					