					Brida	e Culve	ert Inspe	ection					
Bridge File Number 74289 -1 Bridge Culvert					Dilag	e Guive			CUL1				
Year Built 1984						71		2					
Bridge or Town Name BRETON								Wade Nanninga					
Located Over TRIBUTARY TO BUCKLAKE CI				REEK				BR CLS B					
6.132.2.5, WATERCRS-S				S-ST	ST			Assistant Name		DI OLO D			
Located On 616:02 C1 8.312						Assistant Class							
Water Body Cl./	Year						Inspection Date		14-Feb-2011				
Navigabil. Cl./Ye	ear						Data Entry By			aimer			
Legal Land Loca	ation	SW SEC	2 TWP 48 R0	3E 6 W5N	Λ		Data Entry Date		Janie Assenheimer 25-Feb-2011				
Longitude, Latitude -114:46:46, 53:06:19						Reviewer Name							
Road Authority		Alberta T	ransportation	(AIT)	AIT)					Arnold Assenheimer			
Contract Main. A	Area	CMA11							22-Feb-2011				
Clear Roadway/	Skew	9 /											
AADT/Year		750 / 200	9 (A)						ate	02-Mar-2011			
Road Classificat	tion	RCU-209					Follow	-ор ву					
Detour Length (I		5											
Bridge Culvert													
Number of Culve		1											
	Barrel	S	pan	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1 [MAIN	2	019	2226		SPE		73.8		152X51	3.0	ELLIPSE	
Special Features						ı	1 0.0						
Special Features		ment B	F tag on S cr	own.									
			g										
					Uti	lities (L	ocated	at)					
Utility Attachmer	nts												
Telephone South r/w.							Gas						
Power	3 lines	s North r/w.					Munici	oal					
Others							Proble	m (Y/N)	No				
Remarks													
				Ap				ankment					
								ation of					
Horizontal Aligni					7	7	Range	road inte	rsectio	n to west. crest curve to			
Vertical Alignme	ent				7	7	east.	ising LD (aue to t	crest curve to			
							Well gr	assed.					
Roadway Width	(m)		9.000										
							(h 4:				. 04 N 225=	<u> </u>	
Embankment	4)				4	N	(Minor	undulatio	ns Nor	th embankmen	t 21-Nov-2007)	
Sideslope (:			3.0				-						
(Height of Cov	er(m) :	5.5)											
Guardrail (Y/N)			No										
Approach Road	d / Emł	oankment	General Rat	ina	7	7							
						Upstre	am End						
Culvert Compo	nent				Last	Now	Explan	ation of	Condi	tion			
Direction			I		S		-						
End Treatment (Concrete, Steel, Others, None)													
Headwall			X	X									
Collar			Х	X									
Wingwalls				Х	X								
(Shape:)							1						

74289 -1 Bridge Culvert

			Unetro	am End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall	I.	X	X	Explanation of condition
Caton Tran		^		
Bevel End		5	5	Dented from drift.
Heaving (mm)	300			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		4	4	
(Type : NONE)				
(Avg. Rock Size(mm):)				
Scour/Erosion		4	4	Eroded on both sides up to 600 mm wide.
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Del	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN			
Barrel Last Accessible Date	lion code. MAIN,	Span (IIIII	ij. 2013	0.5 - 0.8m ice along floor.
Barrer Last Accessible Date				0.3 - 0.8iii ice along lioor.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		6	6	Minor dent at inlet crown.
Measured Rise (mm)	2125			(2125 - 4th ring from outlet, 3.0%. 01/Sept/2004)
Measured At Ring No.				est.
Sag (mm)	100			
Percent Sag	6			
Sidewall		6	6	Minor superficial rust but no pitting.
Measured Span (mm)	2120			
Measured At Ring No.				
Deflection (mm)	101			
Percent Deflection	6			
Floor		7	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
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			
Coating		5	6	Superficial rust lower 1/2.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Camber 1 OS/ZERO/NEG	ZLINO			

74289 -1 Bridge Culvert

		Brid	dge Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm): 2019	, Rise (mm): 2226, Type: SPE)
Ponding (Y/N)	No			
Fish Passage Adequacy		4	5	Steep inlet.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		4	4	Scouring D/S shows opening should be larger to reduce velocities.
Icing (Y/N) No				
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
_				
				eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)			1	
Cutoff Wall		X	X	
Bevel End		4	4	Bevel unsupported for 2.4 m.
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200		1	
Scour Protection		3	3	Most rocks are washed D/S.
(Type:)				
(Avg. Rock Size(mm) :)			1	
Scour/Erosion		3	3	(Scour is 12m wide x 15m long x 2.m deep.
Beavers (Y/N)	No			
Downstream End General Ratio	ng	3	3	
		5	tructu	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Creek meanders through wide valley with gentle hilly slopes.
Bank Stability		5	5	
HWM (m below Top of Culvert)				
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			

Structure Usage								
		Last	Now	Explanation of Condition				
(Fish Compensation Measure 1 : I	NONE)							
(Fish Compensation Measure 2 : NONE)								
Channel General Rating 5 5								

			Maintenance F	Recommen	dations					
Inspector Recommendations	Year	Year Inspector Comments			Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS								3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
PLACE ADDITIONAL RIP RAP	2011	30m3 cla	ass 1.							
REMOVE DRIFT ACCUMULATION	2011	At u/s.								
INSTALL CONCRETE/STEEL LINING	ì									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTO	OFF									
REPAIR SEAMS										
OTHER ACTION	2011	Add clay	around both bevels.							
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 66.7/66	5.7	Sufficiency Rating (Last/Now) (%)		47.8/54.1	Est. Repl. Y	2024	2024 Maint. Re		Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date			Estimated Tota	ıl O	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Jacob Oresile			Previous	vious Assistant's Name					
Next Inspection Date	14-May-2014			Previous	Inspection Date	21-Nov-2	2007			
Inspection Cycle (Default) (months)	39									
Comment										