					Brida	e Culve	ert Inspe	ection						
Bridge File Num	ber	74696 -	1 Bridge Culver		Dirag	o ourre	Form Type			CUL1				
Year Built		1979	- Dhage Carro				71			2				
Bridge or Town Name VOLMER										Z Melanie Johnson				
Located Over TRIBUTARY TO STURGED								or Class		BR CLS B				
WATERCRS-ST					· · · · · · · · · · · · · · · · · · ·			nt Name						
Located On 37:02 C1 40.516							Assistant Class							
Water Body CI./							Inspection Date			08-Nov-2011				
Navigabil. Cl./Ye							· ·			Theresa Lacus	sta			
Legal Land Loca	C 4 TWP 55 RG					ntry Date	•	19-Nov-2011						
Longitude, Latitude -113:39:5			:51, 53:42:58		ver Name		Eric Carcoux							
Road Authority Alberta T			Transportation		Review Date			13-Nov-2011						
Contract Main. Area CMA09			י ר					Reviewer	Name	Brent Herrick				
Clear Roadway/	Skew	11.9/-3	30 deg. (LHF)				Dept. Review Date			15-Dec-2011				
AADT/Year		5,060 /	2010 (A)				Follow-Up By							
Road Classificat	ion	RAU-21	1.8-110											
Detour Length (F	km)	6												
Bridge Culvert	Inform	ation												
Number of Culve	erts		1								1			
Pipe # E	Barrel		Span	Rise (or I	Dia.)	Dia.) Type		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	1800	MP			42		125X26	2.8	ROUND		
Special Features	s		BARREL ELBO	W										
Special Features	s Comr	ment												
	ĺ				Uti	lities (L	ocated	at)						
Utility Attachmer														
Telephone	South	ו row						Gas						
Power	North	row 3 wire-crosses to East					Municip							
Others							Problem (Y/N) No							
Remarks														
								ankment						
Harizantal Align	mont				Last 7	Now	Explanation of Condition Intersection @ pipe.							
Horizontal Align					9	9								
Vertical Alignment					9	9								
Roadway Width	(m)		11.900											
	,													
Embankment	4				8 8		-							
Sideslope (:			2.5				-							
(Height of Cov	rer(m) :	1.6)												
Guardrail (Y/N)			No											
Approach Road	d / Emb	bankme	nt General Rat	ing	7	7								
						Upstre	am End							
Culvert Compo	nent				Last	Now	Explan	ation of	Condi	tion				
Direction					N		-							
End Treatment (Concrete, Steel, STEEL Others, None)														
Headwall				Х	X									
Collar				Х	Х									
Wingwalls			Х	Х										
(Shape :)														
(Shape:)						Page								

Alberta Transportation

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)	600			-
Scour Protection	000	7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				-
Scour/Erosion		7	7	
	1			
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dqe Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	pan (mm):	, Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	09-May-2008			Could not access due to thin ice. Viewed from ends - not able to see much due to elbow pipe -very dark.
Special Features				
Special Feature		N	N	Elbow in good condition09-May-2008
(Type : BARREL ELBOW)				
Special Feature				
(Type :)				
Roof		N	N	Silt on floor up to elbow, then D/S end. Hole in roof, 3m D/S of elbow,
Measured Rise (mm)	1704			installation damage - photos 1 & 209-May-2008
Measured At Ring No.				
Sag (mm) 96				At elbow - 1741, U/S - 1802, D/S heavy silt deposit. Rating lowered due to circumferential seam09-May-2008
Percent Sag	5			
Sidewall		N	N	25m D/S - 1860, elbow - 1843, U/S - 1773, D/S - 177309-May-2008
Measured Span (mm)	1872			At c/l.
Measured At Ring No.				
Deflection (mm)	72			
Percent Deflection	4			
Floor		N	N	Ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	(140mm separation 2nd circumferential seam from South. Concrete
Separation (mm) 200				grout on seams, concrete between gaps in rings at joints - old pipe. 2003/10/01) Could not get close to separation but gap at roof is estimated at 200mm. Viewed from U/S end and about 4.2m from D/S end09- May-2008
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				1
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				1
Longitudinal Stagger (Y/N)				

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

74696 -1 Bridge Culvert

n Code: MAIN, Spar	n (mm) N	Now : N	Explanation of Condition , Rise (mm): 1800, Type: MP) Bottom 1/2 of old section has pitting rust and extensive corrosion - photo #3. Upper portion looks good09-May-2008
o es ERO	N		Bottom 1/2 of old section has pitting rust and extensive corrosion -
es ERO		N	Bottom 1/2 of old section has pitting rust and extensive corrosion - photo #3. Upper portion looks good09-May-2008
es ERO			photo #3. Upper portion looks good09-May-2008
ERO			
0			
	0		
	6	6	
	Х	Х	
	6	6	
0			
0			
0			
	4	4	GR carried forward.
	Do	ownstr	eam End
			Explanation of Condition
	S		
TEEL			
	Х	Х	
	Х	Х	
	Х	Х	
	Х	Х	
	7	7	Greater portion submerged in water.
00			
ELOW			
50			
	7	7	
1			
	7	7	
0			
	7	7	
	S	tructu	re llsane
			Explanation of Condition
Channel (U/S and D/S) Alignment			
Bank Stability			
		I	HWM not visible.
0			
0			1
		D I D I D I D I D I D I I X I I I I I I I I I I I I I I I I I I I I I I I I I	D I I D I I D I I D I I I Last Now S I I I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I Y Y I Y Y I Y Y I Y Y I Y Y I Y Y I Y Y I Y Y I Y Y I Y Y

Structure Usage										
	Last	Now	Explanation of Condition							
(Fish Compensation Measure 1 : NONE)										
(Fish Compensation Measure 2 : NONE)										
Channel General Rating	8	7								

Alberta Transportation

74696 -1 Bridge Culvert

Maintenance Recommendations												
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												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF											
REPAIR SEAMS		2012 Replace approximately 5m of barrel D/ 09-May-2008			D/S end							
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now (%)		N) 44.4/44.4		Sufficiency Rating (Last/ (%)	Now)) 53.9/53.2		st. Repl. Yr 2020		Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection						Department Comments						
Maintenance Reviewed By						Date			E	Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name S		Hall			Previous	Previous Assistant's Name						
Next Inspection Date 0		-2013			Previous	us Inspection Date 23-Mar-2010						
Inspection Cycle (Default) (months) 27												
Comment												