				Brida	e Culve	ert Inspe	ection					
Bridge File Numb	er 13765	-1 Bridge Culve		Diridg	o ourre	Form T		CUL1				
Year Built	1960	<u> </u>				Lot No.			2			
Bridge or Town N		DE PRAIR			Inspector Name			– Russel Vanderschaaf				
Located Over		TARY TO BEA	AR RIVER.			Inspector Class			BR CLS B			
	8.10.58	3.18.2.7, WATE	RCRS-ST	T		Assistant Name						
Located On		C1 25.712		As		Assistant Class						
Water Body CI./Ye				Insp		Inspect	tion Date	11-May-2010	11-May-2010			
Navigabil. Cl./Yea						Data Entry By		Theresa Lacu	sta			
Legal Land Location SE SEC 15 TWP 73 RGE 7 W6M				M		Data Entry Date		21-Jun-2010				
Longitude, Latitude -118:58:47, 55:18:58					Reviewer Name		Arnold Assent	Arnold Assenheimer				
Road Authority Alberta Transportation (A			i (AIT)	NT)			/ Date	07-Jun-2010				
Contract Main. Area CMA05			Dept. Reviewer Name		e Steve Pasqua	n						
Clear Roadway/Skew 7.6 /					Dept. Review Date		10-Sep-2010					
AADT/Year 1,210 / 2009 (A)						Follow						
Road Classification	on RCU-2	09-110					op =)					
Detour Length (kn	n) 10											
Bridge Culvert In	formation											
Number of Culver	ts	1										
Pipe # Ba	arrel	Span	Rise (or D	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1 M.	AIN	-	1500		SP		20.7	152X51	3.0	ROUND		
Special Features												
Special Features	Comment											
•												
				Uti	ilities (L	ocated	at)					
Utility Attachment						1						
Telephone S	SOUTH R/W					Gas						
Power N	NORTH R/W	- 1 wire					Municipal					
Others						Proble	m (Y/N) No					
Remarks												
							ankment					
 					Now		ation of Con					
Horizontal Alignm				7	7			ance - E. side. ide. No passing				
Vertical Alignmen	t			7	7	West b						
Roadway Width (r	n)	9.000										
Embankment				8	8							
Sideslope (:1)	3.5			_	1						
(Height of Cove						1						
Guardrail (Y/N)	(,·.)	No										
Approach Road	/ Embankme	nt General Ra	ting	7	7							
					Unstre	am End						
Culvert Compone	ent			Last			ation of Con	dition				
Direction				N								
End Treatment (C Others, None)	oncrete, Ste	el, STEEL										
Headwall				Х	Х							
Collar				Х	Х							
Wingwalls				Х	X							
(Shape :)						1						
Cutoff Wall				Х	X							

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	3	(0.4m of end of bevel has perforations.
Heaving (mm)	150			
Invert Above/Below Stream Bed	BELOW			-
Above/Below (mm)	0			
Scour Protection		N	4	Scour undermined bevel 0.4m.
(Type : RIP RAP)				-
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		N	4	
Beavers (Y/N)	No			
Upstream End General Rating		3	3	
				Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca		in (mm)):	, Rise (mm): 1500, Type: SP)
Barrel Last Accessible Date	11-May-2010			
Special Features				
Special Feature				
(Type :)			1	1
Special Feature				
(Type:)		1		
Roof		7	6	upward defl.
Measured Rise (mm)	1549		Ŭ	
Measured At Ring No.	5			-
Sag (mm)	49			-
Percent Sag	3			-
Sidewall	-	7	6	inward defl.
Measured Span (mm)	1450			
Measured At Ring No.	5			
Deflection (mm)	50			
Percent Deflection	3			
Floor		N	4	
Bulge (mm)	0			Corrosion in floor.
Measured At Ring No.	-			PERFORATIONS D/S BEVEL ENDphoto
Abrasion (Y/N)	No			
Circumferential Seams		6	6	Poor nesting of seams from ring 8 -11.
Separation (mm)	10			
Longitudinal Seams		6	6	
Total No. of Cracked Rings	0		-	1
Total No. of Rings with Two Cracked Seams				1N
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	4	Deep pitting rust on floor -photo
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

13765 -1 Bridge Culvert

		Brid	dge Cu	lvert Barrel				
Culvert Component			Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	oan (mm):		, Rise (mm): 1500, Type: SP)				
Fish Passage Adequacy		4	4	0.5m drop at outlet.				
Baffle		Х	Х					
(Type :)								
Waterway Adequacy		4	4	0.5 x 6 x 3m scour hole d/sphoto				
Icing (Y/N)	No		-					
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		3	6					
		D	ownst	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		S		_				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	X					
Collar		Х	X					
Wingwalls		X	X					
(Shape:)								
Cutoff Wall		Х	X					
Bevel End		N	3	(Perforations in floor bevel end last				
Heaving (mm)	50			corrugation.2003.11.17)				
Invert Above/Below Stream Bed								
Above/Below (mm)	0							
Scour Protection		N	4					
(Type : NONE)								
(Avg. Rock Size(mm) :)								
Scour/Erosion		N	4	(0.5 x 6 x 3m scour hole. Bevel unsupported for 0.5m.				
Beavers (Y/N)	No							
Downstream End General Ration	ng	3	3					
		s	structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		7	7					
Bank Stability		8	8					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	No			1				
Channel Bottom Degrading/Aggrading	DEGRADING							
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	-							
(Fish Compensation Measure 2 :				1				
Channel General Rating		7	7					

Alberta Transportation

		Maintenance Reco	ommenda	ations				_	
Inspector Recommendations	Year	Inspector Comments		Department Commer	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP	2010	20m3 class 1 d/s							
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	FF								
REPAIR SEAMS									
OTHER ACTION	2010	Repair floor, concrete floor lining.							
OTHER ACTION	2010	Recommend assessment to evaluate							
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/Nor (%)	w) 33.3/66	5.7 Sufficiency Rating (Last/Nor (%)	ow) 3	1 .9/46.5 Es	st. Repl. Yr	2017	Maint. Red	qd. (Y/N)	Yes
Structural Condition Rating (Last/No	w) 33.3/66		vw) 3	Department Comments	st. Repl. Yr	2017	Maint. Red	qd. (Y/N)	Yes
Structural Condition Rating (Last/Nor (%) Special Comments for Next Inspection	w) 33.3/66		w) 3	Department	st. Repl. Yr		Maint. Red		Yes
Structural Condition Rating (Last/Nor (%) Special Comments for	w) 33.3/66		w) 3	Department Comments	st. Repl. Yr				Yes
Structural Condition Rating (Last/Nor (%) Special Comments for Next Inspection Maintenance Reviewed By	w) 33.3/66		w) 3	Department Comments	st. Repl. Yr				Yes
Structural Condition Rating (Last/Nor (%) Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy	w) 33.3/66		w) 3	Department Comments	st. Repl. Yr				Yes
Structural Condition Rating (Last/Nor (%) Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action	w) 33.3/66			Department Comments	st. Repl. Yr				Yes
Structural Condition Rating (Last/Nor (%) Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name		(%) P	Previous A	Department Comments Date	st. Repl. Yr				Yes
Structural Condition Rating (Last/Nor (%) Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Next Inspection Date	Colin Roy	(%) P	Previous A	Department Comments Date					Yes