					Brida	e Culve	ert Inspectio	n					
Bridge File Number 80543 -1 Bridge Culvert						Form Type		CULM					
Year Built 1993			-					Lot No.		1			
Bridge or Town Name WATER			ATERCOURSE CULVERT ON					Inspector Name		Russel Vanderschaaf			
			NCIAL HIGHWA			ILVER	Inspector C	lass	BR CLS B				
Located Over WATERCOURSE,				TERCRS-	NI		Assistant Name						
Located On 681:02 C1 15.335						Assistant Class							
Water Body Cl./Year						Inspection Date		06-Mar-2012					
Navigabil. Cl./Year							Data Entry By		Theresa Lacu	sta			
Legal Land Location SW SEC 17 TWP 81 RGE 11 We				GETTW	OIVI		Data Entry Date		27-Mar-2012				
Longitude, Latit	:09, 56:00:52	() (Reviewer Name		Eric Carcoux						
Road AuthorityAlbertaContract Main. AreaCMA05			Transportation	(ATT)			Review Date		22-Mar-2012				
Clear Roadway		9.5 /					Dept. Reviewer Name			n			
AADT/Year	Skew	320 / 20	11 (Λ)				Dept. Revie		28-Aug-2012				
Road Classifica	tion	RAU-20	· · · ·				Follow-Up I	Зу					
Detour Length (6	3-110				-						
Bridge Culvert		-											
Number of Culv		i	2										
	Barrel		- Span	Rise (or [ise (or Dia.)		Ler	gth	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	1200		MP	30		65X13	2.8	ROUND		
2	MAIN		-	1200		MP	30		65X13	2.8	ROUND		
Special Feature	s												
Utility Attachme Telephone Power Others Remarks	S r/w. N r/w	3 wire O	/H				Gas Municipal Problem (Y I / Embankr Explanatio	nent n of Con	dition nmD crack in AC	D olong contor			
Horizontal Align					9	9	Op to Som	n vv x 40r	nmd crack in AC	P along center	line of E pipe.		
Roadway Width			9.500			9							
Embankment					7	7							
Sideslope (:1)		3.0				1						
(Height of Cov		: 2.5)											
Guardrail (Y/N)													
Approach Roa	d / Eml	bankmer	nt General Rat	ing	9	9							
						Upstre	am End						
Culvert Compo (Pipe # : 1, Spa		e: Prima	ry Span)		Last	Now	Explanatio	n of Con	dition				
Direction					s		West pipe.						
End Treatment Others, None)	End Treatment (Concrete, Steel, STEEL		I, STEEL										
Headwall				Х	X								
			Collar										
Collar					Х	Х							
Collar Wingwalls					X X	X X							

			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	y Span)								
Cutoff Wall		X	Х						
Bevel End			N	Undermined 2.0L x 1.2W x 0.1D m- 27-Oct-2010					
Heaving (mm)	200			Snow covered					
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	100								
Scour Protection		4 N		Undermined 2.0L x 1.2W x 0.1Dm -27-Oct-2010					
(Type : RIP RAP)				Snow covered					
(Avg. Rock Size(mm) : 300)		,							
Scour/Erosion		4	N	Undermined 2.0L x 1.2W x 0.1Dm 27-Oct-2010 Snow covered					
Beavers (Y/N)	No								
Upstream End General Rating		4	4	GR carried over 27-Oct-2010.					
		Bri		lvert Barrel					
Culvert Component				Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	ı):	, Rise (mm): 1200, Type: MP)					
Barrel Last Accessible Date	06-Mar-2012			West pipe.					
Special Features									
Special Feature				_					
(Type:)			_	-					
Special Feature				_					
(Туре :)									
Roof	1	3	3	Next contarting 47m from u/a and					
Measured Rise (mm)	1063			Near centerline 17m from u/s end.					
Measured At Ring No.				-					
Sag (mm)	137			-					
Percent Sag	11								
Sidewall	1	3	3	Near centerline 17m from u/s end.					
Measured Span (mm)	1341								
Measured At Ring No.				-					
Deflection (mm) 141				-					
Percent Deflection	12								
Floor		6	6	Near centerline.					
Bulge (mm)									
Measured At Ring No.				-					
Abrasion (Y/N)	No								
Circumferential Seams		6	6	-					
Separation (mm)									
Longitudinal Seams		X	X	-					
Total No. of Cracked Rings				-					
Total No. of Rings with Two Cracked Seams				-					
Min. Remaining Steel Between Cracks (mm)				_					
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)									
Coating		5	5						
Corrosion By Soil (Y/N)	No			Superficial rust at 5:00 - 7:00.					
Corrosion By Water (Y/N) Yes									

Bridge Inspection & Maintenance System (Web 2005)

80543 -1 Bridge Culvert

		Bric	lge Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa):	, Rise (mm): 1200, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Туре :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No		-	
Barrel General Rating		3	3	
				eam End
Culvert Component	(Spop)	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	span)	N		
Direction End Treatment (Concrete, Steel,	STEEL	N		
Others, None)			Х	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End	1		7	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)			1	
Scour Protection			7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)			1	
Scour/Erosion			7	
Beavers (Y/N)	No			
Downstream End General Ration	ng		7	
			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		S		East pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall	·		X	
Collar			Х	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End			2	Bevel end broken off due to scour-photo
Heaving (mm)				7mLx5mWx1mD scour-photo
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1000			
Scour Protection			2	Bevel end broken off due to scour-photo
(Type : RIP RAP)				7mLx5mWx1mD scour-photo
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			2	Bevel end broken off due to scour-photo 7mLx5mWx1mD scour-photo
Beavers (Y/N)	No			
Upstream End General Rating			2	
		Brie	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	mm):	, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	06-Mar-2012			East pipe
Special Features				
Special Feature				
(Type :)				_
Special Feature				
(Type :)				
Roof		4	4	
Measured Rise (mm) 1093				near centerline 15m from u/s end.
Measured At Ring No.				
Sag (mm)	107			
Percent Sag	9			
Sidewall		4	4	
Measured Span (mm)	1316			Near centerline 15m from u/s end.
Measured At Ring No.				
Deflection (mm)	116			
Percent Deflection	10			
Floor		7	7	
Bulge (mm)				near centerline.
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		3	3	4 seams damaged (photo).
Separation (mm)	150			5th seam disconnected.
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		6	6	
Corrosion By Soil (Y/N)	No			Superficial rust 5:00 - 7:00
Corrosion By Water (Y/N)	Yes			1
Camber POS/ZERO/NEG	ZERO			

Bridge Inspection & Maintenance System (Web 2005)

	Last	Now	Ivert Barrel Explanation of Condition					
cation Code: MAIN	, Span (r	nm):	, Rise (mm): 1200, Type: MP)					
Yes			75mm u/s end for 10m.					
	7	7						
	X	X						
	7	7						
No								
No								
No								
	4	4						
	D	ownst	ream End					
	Last		Explanation of Condition					
ary Span)								
	N		East pipe.					
STEEL								
	X	X						
	X	X						
	X	Х						
	X	X						
	7	7						
0								
ABOVE			_					
100								
	7	7	-					
			-					
	7	7						
No								
g	7	7						
			re Usage					
	Last	Now	Explanation of Condition					
Alignment		7						
Bank Stability								
			No HWM visible.					
No								
DEGRADING			D/S stable and u/s degrading.					
No			1					
			1					
	7	7						
	Yes Yes	cation Code: MAIN, Span (r YesYes7Yes7NaXXXNo7No7No1No1No1No1No1No1No1STEELXSTEELXXXABOVE707ABOVE71007Yes7No7ABOVE7Yes7No7Yes7No7Yes7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7No7<	Cation Code: MAIN, Span (IIII)Yes7Yes717111111No1No1No1No1No1No1No1No1STEEL1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111					

80543 -1 Bridge Culvert

				Maintenance Re	commendations						
Inspector Recomm	Inspector Recommendations Year Inspector Comments					rtment Commer	nts		Target Year	Est. Cost	Cat #
SHOTCRETE RE	PAIRS										
PLACE ADDITIONAL RIP RAP			2012	Place 35m3 of class 1 Riprap at u/s e pipe and 5m3 at west pipe.	end of east						
REMOVE DRIFT	ACCUMULATION										
INSTALL CONCR	ETE/STEEL LINING	;									
INSTALL STRUTS	3		2012	Install struts							
INSTALL CONCR	ETE COLLAR/CUT	OFF									
REPAIR SEAMS			2012	Repair seams in east pipe.							
OTHER ACTION			2012	Repair crack in ACP							_
OTHER ACTION			2012	Repair embankment with 30m3 of fill pipe.	at East						
OTHER ACTION		2012	Repair undermined bevel and discon bevel at u/s end.	nected							
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)			33.3/33	3 Sufficiency Rating (Last/N (%)	Now) 54.3/52	. .4 Es	st. Repl. Yr	2019	Maint. Rec	ıd. (Y/N)	Yes
Special Comments for Next Inspection	Consider replaceme Assessment comple AT advised of low r	eted 201	1.	12		urtment ments					
Maintenance Reviewed By					Date			E	stimated Total	0	
Proposed Long-T	erm Strategy										
On 3-Year Progra	m (Y/N)										
Proposed Action											
Previous Inspecto	r's Name	Russel	Vanders	schaaf	Previous Assista	int's Name					
Next Inspection D	ate	06-Jun	-2015		Previous Inspect	ion Date	27-Oct-2010				
Inspection Cycle (Default) (months)	39									
Comment		1									