				Br	ridg	e Culve	ert Insp	ection					
Bridge File Nur	nber	81219 S	-2 Bridge Culv	ert			Form Type			CULM			
Year Built		2002			Lot			Lot No.		4			
Bridge or Town	Name	GRASS	SLAND				Inspector Name			Eric Carcoux			
Located Over		TRIBUT					Inspector Class			BR CLS A			
Located On		C1 60 704					Assistant Name						
Water Body Cl.	/Year						Assistant Class						
Navigabil. Cl./Y							· · ·	Inspection Date		13-Jan-2012			
Legal Land Loc		SE SEC	25 TWP 67 R	GE 18 W4M				Data Entry By		Theresa Lacus	sta		
Longitude, Lati			03, 54:49:13				Data Entry Date		17-Jan-2012				
Road Authority			Transportation	(AIT)			Reviewer Name		Arnold Assenh	eimer			
Contract Main.		CMA07		<u> </u>			Review			16-Jan-2012			
Clear Roadway		10.2 /					· · · · · · · · · · · · · · · · · · ·			Brent Herrick			
AADT/Year		4,610/2	2010 (A)				· · ·	Review Da	ate	18-Jan-2012			
Road Classifica	ation	RAU-21					Follow	Ор Ву					
Detour Length	(km)	13											
Bridge Culver	· · · · · · · · · · · · · · · · · · ·	nation					1						
Number of Culv		i	2										
Pipe #	Barrel		Span	Rise (or Dia	a.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN			1524		SSP		32.3			12.7	ROUND	
2	MAIN			1524		SSP		32.3			12.7	ROUND	
Special Feature	es					I							
Special Feature		ment											
					Uti	lities (L	ocated	at)					
Utility Attachme									1				
Telephone		r/w & No					Gas						
Power			n r/w & 1 line 20m West. Power service y 20 metres to West.				Munici						
Others		optic Nor					Problem (Y/N) No						
Remarks													
				App	road	ch Road	l / Emb	ankment					
					ast	Now	1	ation of		tion			
Horizontal Aligi	nment				7	7	No BF tags installed.						
Vertical Alignm	ent		9 9			Residence approaches in area.							
Roadway Widtl	h (m)		10.200										
Embankment					8 8								
Sideslope (_:1)		3.0										
(Height of Co	over(m)	: 1.6)											
Guardrail (Y/N))		No										
Approach Roa	ad / Eml	bankmen	t General Rat	ing	7	7							
						Upstre	am End						
Culvert Comp	onent			La	ast	Now	1	ation of	Condi	tion			
(Pipe # : 1, Sp	an Typ	e: Prima	ry Span)										
Direction				S			West p	ipe.					
End Treatment (Concrete, Steel, Others, None)			, STEEL										
Headwall					Х	X							
Collar					Х	Х							
							1						

				stream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	/ Span)								
Wingwalls		X	X						
(Shape :)									
Cutoff Wall		Х	Х						
Bevel End		8	8						
Heaving (mm)	0								
Invert Above/Below Stream Bed									
Above/Below (mm)	0								
Scour Protection		7	7						
(Type : RIP RAP, GEOTEXTIL	E)								
(Avg. Rock Size(mm) : 450)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Upstream End General Rating	1	7	7						
		Brio	dge Cu	lvert Barrel					
Culvert Component		Last		Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1524, Type: SSP)					
Barrel Last Accessible Date	13-Jan-2012								
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type :)									
Roof		7	7	Ice on floor - sag est.					
Measured Rise (mm)	1482								
Measured At Ring No.	3			(1482-02-Mar-2010)					
Sag (mm)	17								
Percent Sag	1								
Sidewall	·	7	7						
Measured Span (mm)	1525								
Measured At Ring No.	3			1					
Deflection (mm)	1								
Percent Deflection	0								
Floor		7	7	Ice 600 wide.					
Bulge (mm)	0								
Measured At Ring No.	3								
Abrasion (Y/N)	No								
Circumferential Seams		5	5	Lower 1/4 interior weld not completed. Exterior welds took to have					
Separation (mm)	0			been completed.					
Longitudinal Seams		Х	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)									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

81219 S-2 Bridge Culvert

		Brid	lae Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN.			, Rise (mm): 1524, Type: SSP)
Coating	,	5	5	No coating, plain steel.
Corrosion By Soil (Y/N)	No		-	, , , , , , , , , , , , , , , , , , ,
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		7	7	
(Type : WEIR)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			1
Drift (Y/N)	No			
Barrel General Rating		7	7	
Barrei General Kating			<u> </u>	
			1	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	y Span)			
Direction		N		West pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		X	Х	
Wingwalls		X	Х	
(Shape :)				
Cutoff Wall		X	X	
			^	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		7	7	
(Type : RIP RAP, GEOTEXTIL	E)			
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		7	7	
Beavers (Y/N)	No		1	
Downstream End General Ratir	ng	7	7	
			Unstre	am End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction	/	S		East pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
				1

				eam End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)							
Wingwalls		Х	Х					
(Shape :)								
Cutoff Wall		Х	X					
Bevel End		8	8					
Heaving (mm)	0							
Invert Above/Below Stream Bed								
Above/Below (mm)	0							
Scour Protection		7	7					
(Type : RIP RAP, GEOTEXTIL	E)							
(Avg. Rock Size(mm) : 450)								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Upstream End General Rating		7	7					
		Brio	dge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1524, Type: SSP)				
Barrel Last Accessible Date	13-Jan-2012							
Special Features								
Special Feature								
(Type :)								
Special Feature								
(Type :)								
Roof		7	7	Ice on floor - sag est				
Measured Rise (mm)	1488							
Measured At Ring No.	2			(1488 02-Mar-2010)				
Sag (mm)	11							
Percent Sag	1							
Sidewall		7	7					
Measured Span (mm)	1519							
Measured At Ring No.	2							
Deflection (mm)	20							
Percent Deflection	1							
Floor		8	N	Ice and silt on floor.				
Bulge (mm)	0			1				
Measured At Ring No.								
Abrasion (Y/N)	No			1				
Circumferential Seams		5	5	Welded inside ring around top 3/4 dia only.				
Separation (mm)	0							
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)				1				
Longitudinal Stagger (Y/N)				1				

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

81219 S-2 Bridge Culvert

	Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 1524, Type: SSP)					
Coating		5	5	No coating, bare steel.					
Corrosion By Soil (Y/N)	Corrosion By Soil (Y/N) No								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG ZERO									
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		X	Х						
(Type:)									
Waterway Adequacy		7	7	200mm silt build-up at d/s 1/2.					
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		7	7						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)								
Direction		N		East pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall	1	Х	X						
Collar		X	Х						
Wingwalls		Х	x						
(Shape :)									
Cutoff Wall		X	Х						
Bevel End		8	8						
Heaving (mm)	0		1						
Invert Above/Below Stream Bed	-								
Above/Below (mm)	0								
Scour Protection	1	7	7						
(Type : RIP RAP, GEOTEXTIL	E)								
(Avg. Rock Size(mm) : 450)									
Scour/Erosion		7	7						
Beavers (Y/N)	No		1						
Downstream End General Ratir	າg	7	7						
		s	tructu	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)			I	HWM not visible.					
	No	1		1					

Structure Usage									
		Last	Now	Explanation of Condition					
Channel Bottom Degrading/Aggrading	AGGRADING								
Beavers (Y/N)	No								
(Fish Compensation Measure 1	: Fish Pond at Upstrea	am Enc	i)	Ice covered.					
(Fish Compensation Measure 2	: Fish Pond at Downst	ream l	End)						
Channel General Rating		7	7						

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)FF												
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/No (%)	ow)	77.8/77.	.8 Sufficiency Rating (Last/N (%)	ow) 7	74.5/74.5	Est. Repl. Yr 2045		Maint. Reqd. (Y/N)		No			
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	Todd V	Varshaws	ski	Previous A	s Assistant's Name								
		-2013		Previous I	vious Inspection Date 02-Mar-2010								
Inspection Cycle (Default) (months)	21												
Comment													