Bridge Culvert Inspection													
Bridge File Num	ridge File Number 77056 -1 Bridge Culvert						Form Type			CULM			
Year Built		1969					Lot No.	••		4			
Bridge or Town	Town Name BEAVERLODGE						Inspect	Inspector Name		Russel Vanderschaaf			
Located Over TRIBUTARY TO BEAVERLODG 8.10.58.18.8.1.4, WATERCRS-S				'ERLODGE ERCRS-ST	RIV	ΈR,	Inspec	Inspector Class Assistant Name		BR CLS B			
Located On							Assistant Class						
Water Body Cl./	Year						Inspection Date		14 May 2010				
Navigabil. Cl./Ye	ear						Data Entry By		14-May-2010 Theresa Lacusta				
Legal Land Loca	ation	NW SEC	23 TWP 71 R	GE 10 W6	М					14-Jun-2010			
Longitude, Latitu	ude	-119:26:	09, 55:10:04							Arnold Assenheimer			
Road Authority Alberta Transportation (AIT)				(AIT)			Review Date		07-Jun-2010				
Contract Main. Area CMA05							Dept. Reviewer Name		Steve Pasquan				
Clear Roadway/	Skew	9.8 /					· · · ·	Review Date		18-Aug-2010			
AADT/Year		1,080 / 2	2009 (A)				Follow						
Road Classificat							_						
Detour Length (I		6											
Bridge Culvert		1											
Number of Culve		2											
	Barrel		Span	Rise (or Di	ia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
	MAIN			1200		MP		17.7				ROUND	
2	MAIN			1200		MP		17.7				ROUND	
Special Feature	S	E	BARREL ELBC)W									
Utility Attachmen Telephone Power Others Remarks		Utilities (i RE OVER ROAD 30M n					Gas Municipal Problem (Y/N) No						
					ast.	Now	1		ndi	tion			
Horizontal Alignment					7	7	Explanation of Condition HWY 667 10M n OF CULVERT						
Vertical Alignme					8	8							
Roadway Width			9.800										
Embankment					7	7							
Sideslope (:	:1)		3.0										
(Height of Cov	er(m)	: 1.3)		1									
Guardrail (Y/N)			No										
Approach Road	d / Eml	bankmen	t General Rat	ing	7	7							
							am End						
Culvert Compo				L	ast	Now	Explan	ation of Co	ndi	tion			
(Pipe # : 1, Spa	n Typ	e: Primar	y Span)				1						
Direction End Treatment (Concre	ete, Steel	, STEEL				SOUTH	I CULVERT	-				
Others, None) Headwall					Х	X							
Collar					Х	X							
Wingwalls					Х	X							
(Shape :)													
						Dama	1 of 6						

			Upstre	eam End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Span Type: Primary	/ Span)							
Cutoff Wall		X	X					
Bevel End		N	7					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	100							
Scour Protection			7					
(Type : NATURAL)								
(Avg. Rock Size(mm) :)								
Scour/Erosion		N	7					
Beavers (Y/N)	No							
Upstream End General Rating	1	N	7					
		Bri	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm):	, Rise (mm): 1200, Type: MP)				
Barrel Last Accessible Date	14-May-2010							
Special Features	1							
Special Feature			X	South culvert. Could only inspect 4m in, due to water/silt level.				
(Type : BARREL ELBOW)								
Special Feature				_				
(Туре :)								
Roof		7	5	Could not measure rise due to silt.				
Measured Rise (mm)				– Est. sag.				
Measured At Ring No.				_				
Sag (mm)	80			_				
Percent Sag	7							
Sidewall	1	7	5	Shape looks ok as viewed from d/s end.				
Measured Span (mm)	1280			4m from u/s end.				
Measured At Ring No.				_				
Deflection (mm)	80			_				
Percent Deflection	7							
Floor	1	N	N	Silt covered.				
Bulge (mm)				-				
Measured At Ring No.				-				
Abrasion (Y/N)								
Circumferential Seams	1	N	6					
Separation (mm)								
Longitudinal Seams		X	6	Rivetted				
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		7	5	Pitting rust 1/3 up pipe.				
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Yes							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77056 -1 Bridge Culvert

	Bridge Culvert Barrel									
Culvert Component		Last Now		Explanation of Condition						
(Pipe # : 1, Primary Span, Location Code: MAIN, Span):	, Rise (mm): 1200, Type: MP)						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N) No										
Fish Passage Adequacy		7	7							
Baffle			X							
(Type:)										
Waterway Adequacy		7	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		7	5							
	1	D		eam End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	v Span)									
Direction				South pipe						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	Х							
Collar			X							
Wingwalls		X	Х							
(Shape :)										
Cutoff Wall		Х	Х							
Bevel End		N	7							
Heaving (mm)										
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)		NI	7							
Scour Protection		N	7							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 150) Scour/Erosion		N	7							
		IN	· ·							
Beavers (Y/N)	No		1							
Downstream End General Ratir	ng	N	7							
				am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)	1								
Direction				North pipe						
End Treatment (Concrete, Steel, Others, None)	STEEL		-							
Headwall		Х	X							
Collar		Х	Х							
Wingwalls		Х	Х							
(Shape:)										
Cutoff Wall		X	X							

Alberta Transportation

				eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			1
Bevel End		N	7	_
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			_
Above/Below (mm)	100			
Scour Protection		N	7	
(Type : NATURAL)				_
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		N	7	
		Bri	dae Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN,		-	, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	14-May-2010			
Special Features				
Special Feature			6	North pipe
(Type : BARREL ELBOW)			_	Could only access 6.7m from u/s end due to water/silt.
Special Feature				
(Туре :)				
Roof		7	5	No rise due to silt/water.
Measured Rise (mm)				
Measured At Ring No.				Est sag.
Sag (mm)	78			
Percent Sag	7			
Sidewall	·	7	5	6.7m from u/s end.
Measured Span (mm)	1278			
Measured At Ring No.				
Deflection (mm)	78			
Percent Deflection	7			
Floor		N	N	Silt covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	6	
Separation (mm)				
Longitudinal Seams		N	6	
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)				1
Coating		7	5	Pitting rust 1/3 up pipe.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			1
Camber POS/ZERO/NEG	ZERO			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1200, Type: MP)					
Ponding (Y/N)	No								
Fish Passage Adequacy			7						
Baffle		N	X						
(Type :)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		7	5						
Culvert Component		Last	1	eam End Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)	Luot	non						
Direction	, - p,			North pipe					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall	1	Х	X						
Collar		Х	X						
Wingwalls									
		Х	X						
(Shape :) Cutoff Wall			X						
		X							
Bevel End		N	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW			-					
Above/Below (mm)	50								
Scour Protection		N	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 150)									
Scour/Erosion		N	7						
Beavers (Y/N)	No								
Downstream End General Ration	ng	N	7						
		s	Structu	re Usage					
			Now	Explanation of Condition					
Channel (U/S and D/S)		7							
Alignment			7						
Bank Stability			7						
HWM (m below Top of Culvert)				No HWM visible					
Drift (Y/N)	No			1					
Channel Bottom Degrading/Aggrading				Stable.					
Beavers (Y/N)	No			1					
(Fish Compensation Measure 1 :	1								
(Fish Compensation Measure 2 :									
Channel General Rating		7	7						
			[

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Comm		Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTO	FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	w)	77.8/55.	6 Sufficiency Rating (Last/No (%)	ow) 7	71.8/65.6 Est. Repl. Yr 2014		2014	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 Lauri		McCarro	n F	Previous A	Assistant's Name Russel Vande		erschaaf	schaaf				
Next Inspection Date 14-A		-2013	F	Previous I	ous Inspection Date 11-Feb-2009							
Inspection Cycle (Default) (months) 39												
Comment												