					O ri ol o	o Culve	art Inana	otion					
Bridge File Nur	nhor	74002	1 Bridge Culver		Snag	e Cuive	Form T			CULM			
Year Built	ilbei	74993 -1 Bridge Culvert 1991					Lot No.			4			
Bridge or Town	Nama		E PRAIR					or Name		Russel Vanderschaaf			
Located Over	INAIIIC		TARY TO BOYE	R RIVER	8 10	23 10	Inspecto			BR CLS B			
Located Over			RCRS-ST		0.10	.23.10,		Assistant Name		BR CLS B			
Located On		35:12 C	1 43.484				Assistant Class						
Water Body Cl.	/Year						Inspection Date		15-Nov-2011				
Navigabil. Cl./Y	'ear						Data Entry By		Theresa Lacusta				
Legal Land Loc	ation	NE SE	C 25 TWP 104 F	RGE 21 W	5M		Data Entry Date		13-Dec-2011				
Longitude, Latit	tude	-117:19	:17, 58:03:44				Reviewer Name		Eric Carcoux				
Road Authority Alberta Transportation (AIT)					Review	Date		12-Dec-2011					
Contract Main.		CMA01					Dept. Reviewer Name						
Clear Roadway	/Skew	10.8 /						eview Da		10-Jan-2012			
AADT/Year		900 / 20					Follow-l	Up Ву					
Road Classifica		_	13.4-120				_						
Detour Length		999											
Bridge Culvert		ation											
Number of Culv			2	D: / D	\	_				0 5 61	D. (0)		
Pipe #	Barrel		Span	Rise (or D	ıa.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN		-	2000		MP		30		125X26	2.8	ROUND	
	MAIN		-	2000		MP		30		125X26	2.8	ROUND	
Special Feature										-			
Special Feature		ment											
·													
					Uti	lities (L	_ocated	at)					
Utility Attachme													
Telephone			W ditch.				Gas						
Power	5 wire	O/H ald	ong W. ditch.				Municip						
Others							Problem	n (Y/N)	No				
Remarks				Δ		J. D.	ıl / Elı o						
					<u>orroac</u> ₋ast		Evolana	ation of		tion			
Horizontal Aligr	nment				7	7				ICE 60M N.			
Vertical Alignm					9	8							
Roadway Width			10.800										
	- ()												
Embankment					7	7							
Sideslope (			3.5										
(Height of Co		1)	_										
Guardrail (Y/N)			No										
Approach Roa	d / Fml	nankme	nt General Rat	ina	7	7							
Approach		Jannanio	in Conorai ita	9	•	ľ							
							am End						
Culvert Compo				L	_ast	Now	Explana	ation of	Condi	tion			
(Pipe # : 1, Sp	an Type	e: Prima	ry Span)										
Direction				\	N		(south pipe)						
End Treatment Others, None)	(Concre	ete, Stee	el, STEEL										
Headwall					Χ	X							
Collar					Х	Х							
Wingwalls				Χ	Х								
(Shape: )	(Shape: )												

74993 -1 Bridge Culvert

Culvert Component (Pipe # : 1, Span Type: Primary S Cutoff Wall				am End Explanation of Condition				
(Pipe # : 1, Span Type: Primary S		Lası						
	snan)		11011	Explanation of Condition				
Odton Wan	)	Х	Х					
Bevel End		5	4	Pulled inward due to dent @ 10:00 in u/s barrel section .				
Heaving (mm)	250			Under 1.6M at water				
Invert Above/Below Stream Bed A	ABOVE							
Above/Below (mm)	50							
Scour Protection		N	N					
(Type: <b>NATURAL</b> )				Covered with snow.				
(Avg. Rock Size(mm):)								
Scour/Erosion		N	N	Covered with snow.				
Beavers (Y/N)	lo							
Upstream End General Rating		5	4					
		Bric	lge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Locatio	on Code: MAIN, Span	n (mm	):	, Rise (mm): 2000, Type: MP)				
Barrel Last Accessible Date 1	5-Jan-2003			(South barrel)				
2								
Special Features	T							
Special Feature				Barrel shape appears good when viewed from ends15-Jan-2003				
(Type:)			1	Barrel shape appears good when viewed from ends15-Jan-2003 Dents in end of barrel at both ends.				
Special Feature								
(Type:)								
Roof		N	N	(Roof sag 20010510)				
Measured Rise (mm)				est				
Measured At Ring No.								
	0							
Percent Sag								
Sidewall		N	N					
Measured Span (mm)								
Measured At Ring No.								
Deflection (mm)								
Percent Deflection								
Floor		N	N					
Bulge (mm)								
Measured At Ring No.								
Abrasion (Y/N)			1					
Circumferential Seams		N	N	(35 mm of seperation in the center of				
Separation (mm) 3	5			pipe - 940207).				
Longitudinal Seams		Χ	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	N	Superficial rust above ice.				
	lo			Visible from u/s end15-Jan-2003				
	'es							

		Brid	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 2000, Type: MP)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			(1.6 m water ponding20010510)
Fish Passage Adequacy		7	8	
Baffle		Х	Х	
(Type:)		1	1	
Waterway Adequacy		6	6	(Pipe is always over 1/2 full of water-May 16, 2008.)
Icing (Y/N)	No			(Icing in culvert - 940207).
Silting (Y/N)	Yes			
Drift (Y/N)	Yes			
Barrel General Rating		6	N	GR was 6 on 15-Jan-2003
		D	ownstr	ream End
Culvert Component				Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Snan)	Last	INOW	Explanation of condition
Direction	- Cpan	E		(south pipe)
End Treatment (Concrete, Steel, Others, None)	STEEL	L		Ice to 500mm below crown.
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		Х	X	
Bevel End		5	N	Dent on top of bevel.
Bevel End Heaving (mm) 0				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		N	N	Ice 500mm below crown.
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm):)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	GR carried fwd 18-Feb-2010
			Upstre	am End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		W		(North pipe)
End Treatment (Concrete, Steel, Others, None)	STEEL			ice to 600mm below crown.
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape: )				

74993 -1 Bridge Culvert

			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Cutoff Wall		X	X						
Bevel End		5	N	Dent on top of bevel.					
Heaving (mm)	250								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	150								
Scour Protection		N	N	Ice 600 mm below crown					
(Type : <b>NATURAL</b> )									
(Avg. Rock Size(mm):)									
Scour/Erosion		N	N						
Beavers (Y/N)	No								
Upstream End General Rating		5	5	GR carried over 18-Feb-2010					
		Bri	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	span (ı	mm):	, Rise (mm): 2000, Type: MP)					
Barrel Last Accessible Date	27-Nov-2004			(North barrel). Ice approx. 600mm below crown.					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		N	N						
Measured Rise (mm)									
Measured At Ring No.				estimated					
Sag (mm)	80								
Percent Sag									
Sidewall		N	N						
Measured Span (mm)									
Measured At Ring No.									
Deflection (mm)									
Percent Deflection									
Floor		N	N						
Bulge (mm)									
Measured At Ring No.									
Abrasion (Y/N)									
Circumferential Seams		N	N	(25 mm of seperaton on east end of pipe where the last joints meet					
Separation (mm)	25			94/02/07)					
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)									
Coating		5	N	Superficial rust visible above					
Corrosion By Soil (Y/N)	No			ice.					
Corrosion By Water (Y/N)	Yes								

		Brid	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): 2000, Type: MP)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			
Fish Passage Adequacy		8	8	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	(Pipe is always over 1/2 full of
Icing (Y/N)	No			water - 20010510)
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		N	N	
			ownet	ream End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	larv Span)	Last	11011	Explanation of Condition
Direction	<i>y                                 </i>	E		(North pipe)
End Treatment (Concrete, Steel,	STEEL	_		Ice to 500 below crown.
Others, None)				
Headwall		Х	X	
Collar		X	X	
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		X	X	
Bevel End		5	N	Dent on top of bevel.
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		N	N	Ice 500mm below crown
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	GR carried forward18-Feb-2010
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM NOT VISIBLE
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			

Structure Usage									
	Last Now Explanation of Condition								
Channel General Rating		7	7						

		Maintenance I	Recommend	lations					
Inspector Recommendations	Year	Inspector Comments	<u> </u>	Department Comr	nents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS		1					3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	ow) 66.7/55	.6 Sufficiency Rating (Las	t/Now)	61.6/55.1	Est. Repl. Yr	2030 Maint. Re		qd. (Y/N)	No
Special Comments for Next Inspection  Monitor dent u/s an Monitor heaving u/s	d d/s of bevels o endsMay16-2	f South pipe. 008		Department Comments					
Maintenance Reviewed By				Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Brian Pientsch		s Assistant's Name Lisbeth Medina						
Next Inspection Date	15-Aug-2013		Previous I	ous Inspection Date 18-Feb-2010					
Inspection Cycle (Default) (months)	21								
Comment									