Bridge Culvert Inspection													
Bridge File Number 76530 -1 Bridge Culvert						Form 1	уре		CUL1				
Year Built 1968						Lot No			2				
			DE CACHE				Inspec	tor Name		Russel Vanderschaaf			
Located Over STERNE WATERC		IE CREEK, 8.10.58.31.2.2,				· ·	Inspector Class BR CLS B						
Located On 40:34 C1								Assistant Name					
Water Body Cl./	Year							Assistant Class					
Navigabil. Cl./Ye	ear							tion Date		22-Aug-2012			
Legal Land Loca		NE SE	C 16 TWP 57 R	GE 7 W6I	М		Data Entry By Theresa Lacusta						
Longitude, Latitu		-118:58	3:01, 53:55:37				Data Entry Date 25-Sep-2012 Reviewer Name Eric Carcoux						
Road Authority		Alberta	Transportation	(AIT)									
Contract Main. A	Area	CMA05	5					2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
Clear Roadway/s	Skew	8.2 /						Dept. Reviewer Name David Morrison Dept. Review Date 18-Dec-2012					
AADT/Year		1,590 /	2011 (A)	2011 (A)				·		18-Dec-2012			
Road Classificat	ion	RAU-20	09-110				Follow-Up By						
Detour Length (k	km)	425											
Bridge Culvert	Informa	ation											
Number of Culve	erts		1										
Pipe #	ipe # Barrel MAIN		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1 N	MAIN		-	4300		SP		48.8		152X51	4.2,4.8	ROUND	
Special Features	3		SHOTCRETE E	BEAM									
Special Features	s Comm	nent											
					114	ilition (I		-4 \					
Utility Attachmer	oto				Uti	ilities (L	ocateo	at)					
	S r/w						Gas						
							Municipal						
Power 4w o/h N r/w Others						olem (Y/N) No							
Remarks							1 TODIC	111 (1714)	INO				
Romano				A	oproac	ch Road	l / Emb	ankment					
			Last		Explanation of Condition								
Horizontal Alignment				7	7	Curves at both ends, good sight							
Vertical Alignment			7	7	distance. Passing both directions. Approach 125m SW.					\$W.			
Roadway Width (m)		8.200											
Embankment				7	7	8 broke	8 broken posts N side & 6 damaged sections of railphoto						
Sideslope (:1)		3.0	3.0				·		•				
(Height of Cover(m) : 3.5)													
		Yes	Yes										
Approach Road	d / Emb	ankme	nt General Rat	ing	7	7							
						Upstre	am End						
Culvert Compo	nent				Last	Now		ation of	Condi	tion			
Direction					S	111011			-				
End Treatment (Others, None)	Concre	te, Stee	el, CONCRETE										
Headwall		Х	Х										
Collar			N	4	E. sho	E. shoulder settling away from collar near the top.							
Wingwalls			Х	X									
(Shape:)													
Cutoff Wall			N	N									

Upstream End										
Culvert Component				Explanation of Condition						
Bevel End	I.	N	4	Missing 7 bolts.						
Heaving (mm)	300	- 11		Integrity 7 botto.						
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	600									
Scour Protection	000	N	4	Concrete broken for 4m at the bottom.						
(Type : RIP RAP)		14		Condicte broken for 4m at the bottom.						
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		N	7							
SCOUI/ETOSIOTI		IN IN	'	·						
Beavers (Y/N)	No									
Upstream End General Rating		4	4							
		Brid	dae Cu	lvert Barrel						
Culvert Component		Last Now		Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. S			, Rise (mm): 4300, Type: SP)						
Barrel Last Accessible Date	22-Aug-2012		,-	,,,,,,,						
Special Features										
Special Feature		N	7	Shotcret beam E. wall of pipe from ring 4-9.						
(Type : SHOTCRETE BEAM)										
Special Feature										
(Type:)										
Roof		7	7							
Measured Rise (mm)	4161	,								
Measured At Ring No.	10									
Sag (mm)	139									
Percent Sag	3									
Sidewall	3	7	7							
	4227	/								
Measured Span (mm) Measured At Ring No.	10									
	27									
Deflection (mm)										
Percent Deflection	1									
Floor		N	4	Nuts wearing, pointed crests.						
Bulge (mm)	0			lce covered						
Measured At Ring No.	9									
Abrasion (Y/N)	Yes									
Circumferential Seams	1_	N	7							
Separation (mm)	0									
Longitudinal Seams		N	4	Ring 2 missing 3 nuts @ 7:00.						
Total No. of Cracked Rings	0			Thing 2 missing 3 mus & 7.00.						
Total No. of Rings with Two Cracked Seams				1N Stagger.						
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	Yes									
Coating		N	5							
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									

		Brid	ige Cu	lvert Barrel
Culvert Component		Last Now		Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span):	, Rise (mm): 4300, Type: SP)
Fish Passage Adequacy		4	4	Water too fast.
Baffle			Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N) No				
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	7	
	·	D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction	I	N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0		1	
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)			1	
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
		s	tructu	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Culvert)				Hwm not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Stable.
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		6	7	

Bridge Inspection & Maintenance System (Web 2005)

		Maintenance R	ecommendations				
Inspector Recommendations	Year	Inspector Comments	Department Com	ments	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING	i						
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTO	OFF						
REPAIR SEAMS							
OTHER ACTION	2013	Repair guardrail					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/N (%)	ow) 55.6/77	Sufficiency Rating (Last/	Now) 53.3/64.9	Est. Repl. Yr 2020	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection Consider abrasion Scheduled for exter	olates or concre nsion with hwy 4	te floor. 0 upgrading.	Department Comments				
Maintenance Reviewed By			Date		Estimated Tota	I 0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Russel Vander	schaaf	Previous Assistant's Name				
Next Inspection Date	22-May-2014		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						
Comment							