Bridge Culvert Inspection													
Bridge File Number 80700 -1 Bridge Culvert					Dirag	o ourre				CUL1			
Year Built 1986							Lot No.			2			
Bridge or Town Name GRANDE CACHE										– Russel Vanderschaaf			
Located Over TRIBUTARY TO SMOKY RIVER					₹ 8 10	58 27				BR CLS B			
			EDCDCCT				Assistant Name						
Located On 40:36 C1 31.564							Assistant Class						
Water Body Cl./	Year						Inspection Date		23-Aug-2012				
Navigabil. Cl./Year										Theresa Lacusta			
Legal Land Location NE SEC 1 TWP 59 RGE 7 W6N					1					25-Sep-2012			
Longitude, Latitude -118:54:36, 54:04:45									Eric Carcoux				
Road Authority Alberta Transportation (AIT)				(AIT)					24-Sep-2012				
Contract Main. Area CMA05								David Morriso	n				
Clear Roadway/	Skew	10.2 / -1	5 deg. (LHF)				Dept. Review Date		10-Jan-2013				
AADT/Year		1,220 / 2	2011 (A)				Follow						
Road Classificat	tion	RAU-21	1.8-110										
Detour Length (km) 999													
Bridge Culvert		ation											
Number of Culve	erts		1										
Pipe #	Barrel	:	Span	Rise (or Dia		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	2120		SP		124.4		152X51	4.0,4.0,5.0	ROUND	
Special Features			FLOOR ABR P			•					1.0,1.0,0.0		
Special Features													
openant catalo													
					Uti	lities (L	ocated	at)					
Utility Attachme	nts												
Telephone							Gas						
Power							Munici	nicipal					
Others							Proble	m (Y/N)	No				
Remarks													
				A				ankment					
				1	Now	Explanation of Condition							
Horizontal Alignment				6	6	Mild curve middle of slope. No passing.							
Vertical Alignme	ent				6	6							
						Old erosion gullies near d/s end 150mm Deep. (3 - 300 x 400).							
							D/SVe	getated					
Roadway Width	(m)		10.200										
Embankment					N	4	Old or	sion aulli	es neo	r d/s end 150m	m Deen (3 - 3	00 x 400)	
Sideslope (:	•1)		1.5		IN	4	Old erosion gullies near d/s end 150mm Deep. (3 - 300 x 4 D/SVegetated.					100×100	
(Height of Cov		7 1)	1.0				-						
(Fieight of COV	Gr(III) .						Bermed once on d/s side with 3:1						
0 1 1 6 (1)							sideslope at top.						
Guardrail (Y/N)			Yes										
Approach Road / Embankment General Rating			6	6									
							am End						
Culvert Component			Last	Now	Explan	ation of	Condi	tion					
Direction					N		-						
End Treatment (Concrete, Steel, CONCRETE Others, None)													
Headwall			6	6									
				Ŭ	Ŭ								
Collar	Collar					X							

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Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Wingwalls		6	6							
(Shape :)										
Cutoff Wall		Ν	N							
Bevel End		Х	X							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	100									
Scour Protection		Ν	6							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)			-							
Scour/Erosion		Ν	6							
Beavers (Y/N)	No									
Upstream End General Rating		6	6							
		Bric	d <u>ge Cu</u>	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 2120, Type: SP)						
Barrel Last Accessible Date	23-Aug-2012									
Special Features										
Special Feature		6	6							
(Type : FLOOR ABR PLATES)			1	-						
Special Feature										
(Type:)			1							
Roof	1	4	4	Roof flattening at R3 (Localized)						
Measured Rise (mm)	1994			Estimated due to ice and abrasion plates.						
Measured At Ring No.	3			-						
Sag (mm)	76									
Percent Sag	4									
Sidewall	1	6	6	200 x 200 dent pushed in 150mm at ring 23 - probably from installation.						
Measured Span (mm)	2233			-						
Measured At Ring No.	3									
Deflection (mm)	113									
Percent Deflection	5									
Floor	0	N	N	Abrasion plates over floor						
Bulge (mm)	0									
Measured At Ring No.	Na			-						
Abrasion (Y/N)	No	7	7							
Circumferential Seams			7							
Separation (mm) 0			7							
Longitudinal Seams		7	7							
Total No. of Cracked Rings 0										
Total No. of Rings with Two Cracked Seams				2N stagger						
Min. Remaining Steel Between Cracks (mm)				-						
Proper Lap (Y/N) Yes				-						
Longitudinal Stagger (Y/N) Yes			1							
Coating			6							
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	No									

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Bridge Inspection & Maintenance System (Web 2005)

80700 -1 Bridge Culvert

		Brid	d <u>ge Cu</u>	Ivert Barrel					
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,	Span (mm):	, Rise (mm): 2120, Type: SP)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy		3	3	Steep grade, deg. D/S.					
Baffle		X	X						
(Type :)									
Waterway Adequacy		4	4	Can't handle icing- photo Solid ice to top of culvert.25-Feb-2009					
Icing (Y/N)	Yes								
Silting (Y/N)	No			-					
Drift (Y/N)	No			-					
	INO	4	4						
Barrel General Rating		4	4						
				ream End					
Culvert Component			Now	Explanation of Condition					
Direction	CONODETE	S		-					
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall		6	6	Honeycomb around top of the pipe.					
Collar		X	X						
Wingwalls		6	6	Med. diag. cracks.					
(Shape :)									
Cutoff Wall		N	N						
Bevel End		X	Х						
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	1200			-					
Scour Protection		N	6						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 800)				-					
Scour/Erosion		N	6						
Beavers (Y/N)	No								
Downstream End General Rati	na	6	6						
	·								
			Now	re Usage Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7						
Bank Stability		5	5						
HWM (m below Top of Culvert)				Hwm not visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	DEGRADING			Deg D/S (1.5m)					
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :									

Structure Usage									
Last Now Explanation of Condition									
Channel General Rating	5	7							

				Mainten	ance Recommen	dations						
Inspector Recommendations		Year Inspector Comments				Department Con	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		2013	Install de	-icing line-Carry ove	er 27-Feb-2009							
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	44.4/44.4 Suff (%)		Sufficiency Rating (%)			36.8/38.1 Est. Rep		2031	Maint. Red	Maint. Reqd. (Y/N)	
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	Russel	Russel Vanderschaaf Previ				ous Assistant's Name						
Next Inspection Date	23-May	23-May-2014 Prev				ious Inspection Date 19-Nov-2010						
Inspection Cycle (Default) (months)	21											
Comment												