E						e Culve	ert Inspe	ection						
Bridge File Nu	mber	76959 -1	Bridge Culve	ert	<u> </u>		Form T		CUL1	CUL1				
Year Built		1969	J. 2 10				Lot No.	-	4					
Bridge or Town Name WOKING								or Name	Russel Vande	Russel Vanderschaaf				
Located Over			ARY TO KAKI	JT CREE	 К,			or Class	BR CLS B					
		8.10.58.	11.3.6, WATE	RCRS-ST	• ′			nt Name						
Located On		677:04 C	C1 17.255					nt Class						
Water Body Cl	l./Year							ion Date	08-Nov-2011					
Navigabil. Cl./	Year						Data E			Theresa Lacusta				
Legal Land Lo	cation	SE SEC	29 TWP 76 R	GE 3 W6	M			ntry Date		22-Nov-2011				
Longitude, Lat	itude		29, 55:36:25					er Name	Eric Carcoux					
Road Authority	/	Alberta 7	Fransportation	(AIT)			Review			20-Nov-2011				
Contract Main.	. Area	CMA05								Steve Pasquan				
Clear Roadwa	y/Skew	11 / 0 de	g.					Review Date		10-Jan-2012				
AADT/Year		110 / 20	10 (A)					Up By						
Road Classific	ation	RAU-21	1.8-110	)				/						
Detour Length	(km)	5												
Bridge Culver														
Number of Cul	1	1												
Pipe #	Barrel	5	Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	Pl./Slab Thickness	Shape			
1	MAIN	2	2489	1753		RPP		32.9	152X51	3.0	PIPE ARCH			
Special Featur	res	\	/ERT STEEL	STRUTS					-					
Special Featur			-											
<b>-</b>														
					Ut	ilities (L	Located	at)						
Utility Attachm	ents													
Telephone							Gas							
Power	17M N	N. OF C/L	. 1 LINE				Municip	pal						
Others							Probler	n (Y/N) No	)					
Remarks														
				A				nkment						
								ation of Co						
Horizontal Alig					8	7	Approa	ches 100m l	East					
Vertical Alignm			T		8	8								
Roadway Widt	th (m)		9.500											
Embankment					8	7								
Sideslope (_	·1)		3.0											
		. 2)	0.0				_							
Guardrail (Y/N	Height of Cover(m) : 2)  ardrail (Y/N)  No													
Approach Road / Embankment General Rating				0										
Approach Ko	au / EMI	bankinen	General Ka	ung	8	7								
							am End							
Culvert Comp	onent				Last	Now	Explan	ation of Co	ndition					
Direction					S									
End Treatmen Others, None)	t (Concre	ete, Steel	, STEEL											
Headwall					Х	X								
Collar					Х	Х								
Wingwalls					Х	X								
(Shape :	)													
Cutoff Wall					Х	X								

			Heatra	on End
Culvert Component		Last		am End Explanation of Condition
Culvert Component Bevel End		7	Now 6	Explanation of Condition
Heaving (mm)	150	/	0	
Invert Above/Below Stream Bed				
	200			
Above/Below (mm) Scour Protection	200	7	6	
		1	0	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>300</b> ) Scour/Erosion		7	6	
SCOUI/ETOSIOTI		'	0	
Beavers (Y/N)	No			
Upstream End General Rating		7	6	
		Bri	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	n): 2489	), Rise (mm): 1753, Type: RPP)
Barrel Last Accessible Date	17-Sep-2010			Viewed from end, waer with thin ice.
Special Features				
Special Feature		7	N	
(Type: VERT STEEL STRUTS)				
Special Feature				
(Type:)				
Roof		5	N	Est. sag due to steel struts.
Measured Rise (mm)	1607			Missing bolts in last two sections from d/s end @ 12:0017-Sep-
Measured At Ring No.	4			2010
Sag (mm)	95			
Percent Sag	5			
Sidewall		2	N	Seam cracked at the 9:00 position, 45mm sleet between crack in ring
Measured Span (mm)	2511			3.photo-17-Sep-2010
Measured At Ring No.	4			Missing bolts in last two sections from d/s end @ 3:00 and 9:0017-
Deflection (mm)	22			Sep-2010
Percent Deflection	1			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		4	N	TWO PIPES WERE SPLICED TOGETHER AT C/L.50 MM GAP AT
Separation (mm)	50	T		ROOF @ SPLICE between ring 3 & 4.
Longitudinal Seams		2	N	Seam cracked at the 9:00 position, 45mm steel between crack in ring
Total No. of Cracked Rings	2		1 1 1	3.(photo)17-Sep-2010
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)	45			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
	110	6	N	
Coating  Correction By Soil (V/N)	No	0	IN	
Corrosion By Soil (Y/N)	-			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			600mm in downstream end17-Sep-2010

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 2489	, Rise (mm): 1753, Type: RPP)
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N) No				
Barrel General Rating			4	2 point increase due to struts. GR carried over-17-Sep-2010
				eam End
Culvert Component			Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL	X	I	
Headwall			X	
Collar		Х	X	
Wingwalls		Х	Х	
(Shape: )		.,	T .,	
Cutoff Wall		Х	X	
Bevel End		4	4	Bevel section separating from barrel
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600		1	
Scour Protection		7	7	
(Type: NATURAL)				
(Avg. Rock Size(mm):)		_	T -	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating			4	
		S	tructu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			7	
Bank Stability			7	
HWM (m below Top of Culvert)				No HWM visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				stable
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	· · · · · · · · · · · · · · · · · · ·			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

				Maintenance Recommendations	nmendations					
Inspector Recommendations		Year	Inspector	Inspector Comments	Department	Department Comments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP	<b>م</b>									
REMOVE DRIFT ACCUMULATION	ATION									
INSTALL CONCRETE/STEEL LINING	- LINING									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTOFF	AR/CUTOFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	(Last/Now)	44.4/44.4	4.4	Sufficiency Rating (Last/Now) (%)	() 60.0/59.1	Est. Repl. Yr	r 2013	Maint. Reqd. (Y/N)		o <sub>N</sub>
Special Monitor sec Comments for Reduce ins Next Inspection	Monitor seam at 9:00 on ring 3. Reduce inspection cycle to 21 months.	n ring 3. e to 21 mon	ıths.		Department Comments					
Maintenance Reviewed By					Date			Estimated Total	0	
Proposed Long-Term Strategy	>									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	R	Russel Vanderschaaf	rschaaf	Pr	Previous Assistant's Name	ame				
Next Inspection Date	80	08-Aug-2013		Pr	Previous Inspection Date	te   17-Sep-2010	2010			
Inspection Cycle (Modified) (months)	nonths) 21									
Comment										

				Maintenance R	ecommen	dations						
Inspector Recommendati	ons	Year	Inspecto	or Comments		Department Cor		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIF	PRAP											
REMOVE DRIFT ACCUM	MULATION											
INSTALL CONCRETE/ST	TEEL LINING											
INSTALL STRUTS												
INSTALL CONCRETE CO	OLLAR/CUTOFF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Ra	ting (Last/Now)	44.4/44.4 Sufficiency Rating (Last/I (%)			t/Now)	60.0/59.1	Est	. Repl. Yr	2013	Maint. Re	eqd. (Y/N)	No
Special Monito Comments for Next Inspection	r seam at 9:00 or e inspection cycle	ring 3. to 21 mon	ths.			Department Comments						
Maintenance Reviewed E	Ву					Date			E	Estimated Tota	al O	
Proposed Long-Term Str										·		
On 3-Year Program (Y/N	)											
Proposed Action												
Previous Inspector's Nam	sel Vanders	schaaf		Previous	Assistant's Name							
		Aug-2013			Previous	s Inspection Date 17-Sep-2010						
Inspection Cycle (Modifie (months)	d) 21					·						
Comment												