Bridge Culvert Inspection												
Bridge File Number 77	7266 -1 Bridge	Culvert			Form Type			CUL1				
Year Built 19	1970				Lot No.			1				
Bridge or Town Name W	WRENTHAM				Inspector Name			Jon Davies				
Located Over M	MIDDLE COULEE, 11.9.4, WATERCF				Inspector Class			BR CLS B				
Located On 36	6:02 C1 18.774					Assistant Name						
Water Body Cl./Year					Assistant Class							
Navigabil. Cl./Year					Inspection Date			06-Dec-2011				
Legal Land Location N	W SEC 2 TWP	6 RGE 17 W	/4M		Data E	Entry By Anne Roberts						
Longitude, Latitude -1	12:12:09, 49:2	6:55			Data Entry Date 14-Jan-2012							
Road Authority Al	berta Transpor	tation (AIT)			Reviewer Name			Garry Roberts				
Contract Main. Area CM	MA24				Review Date			18-Dec-2011				
Clear Roadway/Skew 10	).8 /				Dept. Reviewer Name			Tim Davies				
AADT/Year 54	40 / 2010 (A)				Dept. Review Date		18-Jan-2012					
Road Classification RA	AU-211.8-110			Follow-Up By								
Detour Length (km) 3	our Length (km) 3											
Bridge Culvert Information												
Number of Culverts	1			1					1			
Pipe # Barrel	Span	Rise (	or Dia.)	Туре	e Lenç			Corr. Profile	PI./Slab Thickness	Shape		
1 MAIN	2316	2560		SPE		30.5		152X51	2.8	ELLIPSE		
Special Features												
Special Features Comme	nt											
			1 14	litico /l		<b>at</b> )						
Litility Attachments			Ull	nues (L	-ocaleu	atj						
Telephone					Gas							
Power					Municir	al						
Others				Problem (Y/N) No								
Remarks						II ( 171 <b>N</b> )						
Kemanos			Approa	ch Road	d / Fmba	ankment						
			Last	Now	Explan	ation of	Condit	ion				
Horizontal Alignment				9	Rise to N							
Vertical Alignment			7	7								
Roadway Width (m)	dth (m) 10.800											
Embankment	nbankment					g by 1.5n	n DP x	2 m wide erosi	on hole at South	n side of D/S		
Sideslope (:1)	e ( :1) 3.0				barrel- starts just behind the bevel West end. U/S East end has 3 m							
(Height of Cover(m) : 2.	2)						× 1 III (			ient.		
Guardrail (Y/N)	Yes											
Approach Road / Embar	nkment Gener	al Rating	7	7								
				Upstre	am End							
Culvert Component			Last	Now	Explan	ation of	Condit	ion				
Direction			E									
End Treatment (Concrete	, Steel, STEEI	-										
Others, None)												
Others, None) Headwall			X	X								
Others, None) Headwall Collar			X X	X X								
Others, None) Headwall Collar Wingwalls			X X X	X X X								
Others, None) Headwall Collar Wingwalls (Shape : )			X X X	X X X X								

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Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
Bevel End	I	N	4	Damage at crown extending down bevel side. Dent pushed in 300					
Heaving (mm)	500			mm.					
Invert Above/Below Stream Bed	ABOVE			-					
Above/Below (mm)	100		1						
Scour Protection		N	4	Rip rap not complete at South side bevel.					
(Type : <b>RIP RAP</b> )				_					
(Avg. Rock Size(mm) : 300)			1						
Scour/Erosion		N	4						
Beavers (Y/N)	No								
Upstream End General Rating		6	4						
		Bric	dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	): 2316	6, Rise (mm): 2560, Type: SPE)					
Barrel Last Accessible Date	06-Dec-2011								
Special Features	ı 		1						
Special Feature									
(Type:)									
Special Feature									
(Туре : )									
Roof		N	6						
Measured Rise (mm)	2484								
Measured At Ring No.	3								
Sag (mm)	76								
Percent Sag	3								
Sidewall		N	3	Cracked seams					
Measured Span (mm)	2411								
Measured At Ring No.	3								
Deflection (mm)	95			_					
Percent Deflection	4								
Floor		N	N	300 mm of water and ice.					
Bulge (mm)	0			_					
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		Ν	6						
Separation (mm)	20			longit seam.j					
Longitudinal Seams		Ν	3	90mm remaining steel @ ring 3 South wall seam					
Total No. of Cracked Rings	3			Rings 2.3.4 have cracks on south wall					
Total No. of Rings with Two Cracked Seams	0			longit seam.					
Min. Remaining Steel Between Cracks (mm)	90								
Proper Lap (Y/N)	No			1					
Longitudinal Stagger (Y/N)	No			1					
Coating		N	4	Corrosion with some pitting at floor					
Corrosion By Soil (Y/N)	No			& @ lower haunches and bevel end floors.					
Corrosion By Water (Y/N)	Yes			1					
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	No								

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Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	lvert Barrel						
Culvert Component	Ilvert Component Last Now Explanation of Condition									
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	ban (mm	): 2316	5, Rise (mm): 2560, Type: SPE)						
Fish Passage Adequacy	Fish Passage Adequacy		5							
Baffle		X	Х							
(Type : )										
Waterway Adequacy		4	4	(HWM to top of pipe at U/S end) 24 June 2010						
Icing (Y/N)	No			D/S is scouring at side of bevel and South side of barrel						
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		3	3							
			ownst	ream End						
Culvert Component		Last	Now	Explanation of Condition						
Direction	1	W	1.1011							
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall	Headwall		X							
Collar		X	Х							
Wingwalls		X	Х							
(Shape : )	(Shape : )									
Cutoff Wall		X	X							
Bevel End		3	5							
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE			_						
Above/Below (mm)	Above/Below (mm) 500									
Scour Protection		3	3	No rock or fill at sides of bevel						
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		3	3	[D/S 12 x 18 x 0.5 m, scour hole is well rip rapped] 10 May 2008 Erosion hole 4m long by 1.5m wide x 1.5m deep @ South side of barrel						
Beavers (Y/N)	No									
Downstream End General Ratin	ng	3	3							
		S	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			5	2 channels-1 aligns well with pipe 1 @ 45 deg to pipe						
Bank Stability			4	Some erosion on the banks at u/s and d/s.						
HWM (m below Top of Culvert)	0.0			HWM not visible						
Drift (Y/N)	No									
Channel Bottom Degrading/Aggrading	DEGRADING									
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		5	5	GR carried forward						

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77266 -1 Bridge Culvert

Maintenance Recommendations											
nspector Recommendations Year			Inspector Comments		Department Com	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP 2012			Repair scour at stream, sides of beve South side of barrel. Est 30m3 clay a class 2 rock	el and and 50m3							
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	DFF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) 33.3/33.			3 Sufficiency Rating (Last/N (%)	Now) 3	35.4/39.7	Est. Repl. Yr	2015	Maint. Red	qd. (Y/N)	Yes	
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 Tom Carey F			Previous A	Assistant's Name							
Next Inspection Date 06-Sep-2013			Previous I	us Inspection Date 24-Jun-2010							
Inspection Cycle (Default) (months)	21										
Comment											