Bridge Culvert Inspection														
Bridge File Number 76884 -1 Bridge Culve			rt			Form Type		CUL1						
Year Built 1977						Lot No.		4						
Bridge or Town Name DUFFIELD						Inspector Name		Kris Bosters						
Located Over WABAMUN CREEK, 6.120, WA				TERC	RS-ST	Inspector Class		BR CLS A						
Located On 627:02 C1 26.058						Assista	Assistant Name		Brian Cote					
Water Body CI./Year						Assistant Class								
Navigabil. Cl./Ye	ear						Inspection Date		25-Oct-2012					
Legal Land Loca	ation	NE SEC	34 TWP 51 R	GE 3 W5	М		Data Entry By			Theresa Lacusta				
Longitude, Latitude -114:21:03, 53:27:14						Data Entry Date			13-Nov-2012					
Road Authority Alberta Transpo			ransportation	ansportation (AIT)				Reviewer Name		Eric Carcoux				
Contract Main. Area CMA11							Review Date		04-Nov-2012					
Clear Roadway/Skew 9 / 20 deg. (RHF)						Dept. Reviewer Name			Brent Herrick					
AADT/Year 1,430 / 2011			011 (A)	011 (A)					Dept. Review Date		20-Nov-2012			
Road Classificat	tion	RCU-209	9-110				Follow	Up By						
Detour Length (I	km)	25												
Bridge Culvert	Inform	ation												
Number of Culverts 1														
Pipe #	Barrel	S	Span	Rise (or	Dia.)	via.) Type		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 [	MAIN	3	495	3854		SPE		140.2		152X51	3.0	ELLIPSE		
Special Features	s													
Special Features Comment u/s 3 rings round, d/s 3 rigs round.														
Litility Attachmor	nte				Uti	inties (L		at)						
	20m S	South					Gas							
Dowor	3011 3	bouin			Municipal									
Othoro	NL r/m	Alborto S			Problem (Y/N) No									
Others N. r/w Alberta Supernet fibre optic							FIODIEI	11 ( 171 <b>N</b> )	INO					
Approach Bood / Embourgent														
				<u> </u>	Last	Now	Explan	ation of	Condit	ion				
Horizontal Alignment			7	7	Curve in both directions									
Vertical Alignment				5	5	Sag- poorsight dist. both directions.								
Roadway Width	(m)		9.000					sing.						
Embankmont					7	7								
	•1)		2.0			1								
(Hoight of Cov	(or(m))	19)	2.0				-							
Guardrail (Y/N)	(III) .	10)	Yes											
Approach Road	d / Emb	pankment	t General Rat	ing	5	5								
						Unotro	om End							
Culvert Compo	nont				Last	Now	Evolar	ation of	Condi	ion				
Direction	nom				N	now	Елріан		Contai					
End Treatment (	Concre	ete Steel	CONCRETE	:			-							
Others, None)														
Headwall			5	5	Wide cracks at top.									
Collar			4	4	Wide cracks - both sides-breaking up likely from movement in fill.					vement in fill.				
Wingwalls			X	Х										
(Shape : )														
Cutoff Wall					Ν	N								

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			Upstre	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	300								
Scour Protection		8	8	Riprap pushed into barrel.					
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : 400)									
Scour/Erosion		8	8						
	1								
Beavers (Y/N)	No			Drift piled up.					
Unstream End General Rating		4	4						
		-							
		Bri	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	oan (mm	ı): 3495	5, Rise (mm): 3854, Type: SPE)					
Barrel Last Accessible Date	25-Oct-2012			Could not confirm measurements due to ice along sidewalls and visibility.					
Special Features									
Special Feature									
(Type:)									
Special Feature				_					
(Type:)									
Roof		7	7	A bulge about 14m from inlet. 100mm					
Measured Rise (mm)	3725			deep (damaged during construction) - (ring 4)					
Measured At Ring No.	17								
Sag (mm)	129			-					
Percent Sag	3			-					
Sidewall	•	7	7						
Measured Span (mm)	3605	-		-					
Measured At Ring No	17			-					
Deflection (mm)	110			-					
Percent Deflection	3			-					
Floor	0	7	7						
Bulge (mm)	0								
Measured At Ring No									
Abrasion (Y/N)	No								
Circumferential Seams		7	7						
Senaration (mm)	0		1						
	•	7	7						
Total No. of Cracked Pinge		1	1						
Total No. of Pings with Two				-					
Cracked Seams									
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)	No			Only 3 ring u/s and staggared					
Longitudinal Stagger (Y/N) No									
Coating			5	Water seeping through bolt holes.					
Corrosion By Soil (Y/N)	Yes			Superficial corrosion.					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								

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Bridge Inspection & Maintenance System (Web 2005)

76884 -1 Bridge Culvert

Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	): 3495	, Rise (mm): 3854, Type: SPE)				
Ponding (Y/N) Yes				0.3 caused by pushed in riprap.				
Fish Passage Adequacy		6	6					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		7	7					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating			7					
		D	ownstr	eam End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		S						
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall			8					
Collar		8	8					
Wingwalls		Х	Х					
(Shape: )								
Cutoff Wall		N	N					
Bevel End		8	8					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	600							
Scour Protection		8	8					
(Type : <b>RIP RAP</b> )								
(Avg. Rock Size(mm) : 400)								
Scour/Erosion		8	8					
Beavers (Y/N)	No							
Downstream End General Rati	ng	8	8					
			Structur					
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)	1	Laot	non					
Alignment			7					
Bank Stability			7					
HWM (m below Top of Culvert)				ule				
Drift (Y/N) Yes				u/s.				
Channel Bottom DEGRADING Degrading/Aggrading								
Beavers (Y/N) Yes								

Structure Usage									
	Last	Now	Explanation of Condition						
(Fish Compensation Measure 1 : NONE)									
(Fish Compensation Measure 2 : NONE)									
Channel General Rating	7	7							

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Comments		Department Cor	nments		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION	N										
INSTALL CONCRETE/STEEL LI	NING										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/	CUTOFF										
REPAIR SEAMS											
OTHER ACTION										_	
OTHER ACTION										_	
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (La (%)	st/Now)	77.8/77.	8 Sufficiency Rating (Last/No. (%)	ow) 7	72.3/72.3	Est. Repl. Yr	it. Repl. Yr 2030		qd. (Y/N)	No	
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	Arnold	l Assenhe	imer	Previous A	Assistant's Name						
Next Inspection Date 25-J		า-2016		Previous I	s Inspection Date 10-Jul-2009						
Inspection Cycle (Default) (months) 39											
Comment											