Bridge Culvert Inspection														
Bridge File Num	Bridge File Number 79218 -1 Bridge Culvert						Form Type			CUL1				
Year Built		1983					Lot No.		4					
Bridge or Town	Name	ALDER	FLATS				Inspector Name		Owen Salava					
Located Over			SHOE CREEK	, 6.147.2	,		Inspector Class		BR CLS A					
Located On		22·26 C	1 18 166				Assistant Name							
Water Body CL/	Vear	22.20 0	110.100				Assistant Class							
Navigabil CL/Year						Inspection Date		25-Jun-2012						
Legal Land Location NW SEC					1		Data Entry By		Marcia Chavez					
Longitude Latitude -114:52:1			·18 52·51·11	26 TWP 45 RGE 6 W5W					Data Entry Date		15-Jul-2012			
Road Authority Alberta T			Transportation (AIT)					Reviewer Name		John O'Brien				
Contract Main, Area CMA17			Tranoportation		Review Date		05-Jul-2012							
Clear Roadway/Skew 11.3 / -4		11 dea. (LHF)		Dept. Reviewer Name			Andrew Smikles							
AADT/Year 2 070 /		2.070 / 2	/ 2011 (A)					Dept. Review Date		19-Jul-2012				
Road Classificat	tion	RAU-21	211.8-110					Follow-Up By						
Detour Length (km)	15					-							
Bridge Culvert Information														
Number of Culverts 1														
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		2314	2552		SP		110.9		152X51	3.0	ROUND		
Special Feature	s													
Special Feature	s Comr	ment	No tag visible.											
					Uti	ilities (L	ocated	at)						
Utility Attachme	nts													
Telephone							Gas							
Power	1 wire	wire o/h E r.o.w.					Municipal							
Others							Problem (Y/N) No							
Remarks	Remarks													
Approach Road / Embankment														
					Now	Explanation of Condition								
Horizontal Alignment				/			to sight distance.							
Vertical Alignment		11 200		6	6	0								
Roadway Width (m)			11.300											
Embankment					7	7	4:1 @	top 1/2						
Sideslope (:1)		3.0				1							
(Height of Cov	/er(m) :	8)												
Guardrail (Y/N)			No											
Approach Road	d / Emb	bankmer	nt General Rat	ing	6	6								
						Upstre	am End							
Culvert Compo	nent				Last	Now	Explar	nation of	Condit	tion				
Direction					Е									
End Treatment (Concrete, Steel, STEEL Others, None)														
Headwall					Х	X								
Collar			X	Х										
Wingwalls			X	Х										
(Shape :)														
Cutoff Wall				Х	X									

Alberta Transportation

	Upstream End									
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		6	6							
Heaving (mm)	100									
Invert Above/Below Stream Bed	BELOW			_						
Above/Below (mm) 400			1							
Scour Protection		N	6	w/some 0.6m rock.						
(Type : RIP RAP)				_						
(Avg. Rock Size(mm) : 300)			1							
Scour/Erosion		N	6							
Beavers (Y/N)	Yes			Remains 10m U/S - no problem						
Upstream End General Rating			6							
		Bric	lge Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 2314	, Rise (mm): 2552, Type: SP)						
Barrel Last Accessible Date	25-Jun-2012									
Special Features										
Special Feature				_						
(Type:)				_						
Special Feature				_						
(Туре :)										
Roof		7	7							
Measured Rise (mm)	2505									
Measured At Ring No.	13									
Sag (mm)	47			1.8 % sag						
Percent Sag	1									
Sidewall		7	7							
Measured Span (mm)	2372									
Measured At Ring No.	13									
Deflection (mm)	58			2.5% deflection						
Percent Deflection	2									
Floor		N	6	Some rocks in barrel floor.						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	Yes									
Circumferential Seams		6	6							
Separation (mm)	0									
Longitudinal Seams		6	6							
Total No. of Cracked Rings	0			1						
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No			1						
Longitudinal Stagger (Y/N)	No			1						
		6 6		Coating wearing on floor & haunches						
Corrosion By Soil (Y/N)	Yes		5	Some wearing off of galvanizing at U/S end. Some staining at roo						
Corrosion By Water (Y/N)	Yes			n lower sidewall. Staining through S. wall longit. seams @ upper roof, staining @ bolts.						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2314, Rise (mm): 2552, Type: SP)									
Fish Passage Adequacy		5	5	Fast flow @ center.					
Baffle		X	X						
(Type :)									
Waterway Adequacy			7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		6	6						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		W							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar			X						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall		X	X						
Bevel End		6	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed BELOW									
Above/Below (mm)	300								
Scour Protection		N	6	Some class II in apron. Mostly natural.					
(Type : RIP RAP)	(Type : RIP RAP)								
(Avg. Rock Size(mm) : 450)		1	-						
Scour/Erosion			6						
Beavers (Y/N)	Beavers (Y/N) No								
Downstream End General Ration	ng	6	6						
		s	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			6	Small sized drift					
Bank Stability			7						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	Yes								
Channel Bottom Degrading/Aggrading									
Beavers (Y/N)	Yes								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)		1						
Channel General Rating		6	6						

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Comments		Department Comr	nents	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											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		66.7/66.	7 Sufficiency Rating (Last/N (%)	low) (65.9/65.8 Est. Repl. Yr		2039	Maint. Red	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 Ow		Salava		Previous	evious Assistant's Name						
Next Inspection Date		25-Mar-2014			Previous Inspection Date 02-Feb-2011						
Inspection Cycle (Default) (months) 21											
Comment											