Bridge Culvert Inspection													
Bridge File Number		01443 -1 Bridge Culvert						Form Type		CUL1			
Year Built 1961							Lot No.		2				
Bridge or Town	Name	BENTLE	.EY				Inspector Name			Owen Salava			
Located Over		RAINY C	CREEK, 3.78.6, WATERCRS-ST				Inspector Class			BR CLS A			
Located On		20:02 C	14.423				Assistant Name						
Water Body Cl./Year							Assista	Assistant Class					
Navigabil. CI./Y	'ear						Inspection Date			11-Jul-2012			
Legal Land Location SW SEC :			3 TWP 40 RGE 1 W5M				Data E	Data Entry By Marcia Chavez					
Longitude, Latitude -114:04:2			26, 52:24:41					ntry Date	;	20-Aug-2012			
Road Authority Alberta T			Transportation (AIT)					er Name	•	John O'Brien			
Contract Main. Area CMA19					Review Date		30-Jul-2012						
Clear Roadway/Skew 9.6 /							Dept. Reviewer Name		Andrew Smikles				
AADT/Year 5,630 / 2		2011 (A)		Dept. Review Date		21-Aug-2012							
Road Classifica	ation	RAU-210	0-110		Follow-Up By								
Detour Length	(km)	3											
Bridge Culvert Information													
Number of Culv	/erts	1	1						a a w				
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре	Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	-		3495		SP		40.2		152X51	4.2	ROUND	
Special Features													
Special Features Comment													
Litility Attachme													
Telephone	East	/w.											
Power	1 line	15m c/l F		Municipal									
Others		10111 0/1 2				Problem (Y/N) No							
Remarks							1						
	Approach Road / Embankment												
					Last	Now	Explan	ation of	Condit	ion			
Horizontal Alignment				7	7	Hill at North in sag curve.							
Vertical Alignment				7	7	No pas	No passing, limited signt distance.						
Roadway Width (m)		9.600											
Embankment					6	6							
Sideslope (_:1)		4.0				Over pipe. 3:1 at road						
(Height of Cover(m) : 1.8)													
Guardrail (Y/N)		Yes											
Approach Road / Embankment General Rating					7	7							
						Upstre	am End						
Culvert Component					Last	Now	Explanation of Condition						
Direction			W										
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall			Х	Х									
Collar				X	Х								
Wingwalls					X	Х							
(Shape:)													
Cutoff Wall					X	X							

Alberta Transportation

			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		4	4	Bevel projects from fill 300mm and heaving. Minor.						
Heaving (mm) 250										
Invert Above/Below Stream Bed	BELOW			-						
Above/Below (mm)	100									
Scour Protection		N	4	(Insufficient rock at toe of bevel. 07Feb2008) - Unable to confirm						
(Type : RIP RAP)				rock due to heavy vegetation.						
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		N	4	Minor scour at banks.						
Beavers (Y/N)	No									
Upstream End General Rating	1	4	4							
Culvert Commence		Bric	ige Cu	Ivert Barrel						
(Dipo # 1 Drimony Open Lass	tion Code: MAINL Co		NOW \.							
Demold act Accessible D	an Code: MAIN, Spa	an (mm)	<i>)</i> :	, rise (mm): 3493, Type: Sr)						
Barrel Last Accessible Date	11-Jul-2012									
Special Features	·									
Special Feature										
(Type:)										
Special Feature										
(Type:)										
Roof		6	6	Avg 200 mm rock on floor.						
Measured Rise (mm)	3436									
Measured At Ring No.										
Sag (mm) 59				1 7%						
Percent Sag 2				- 1.770						
Sidewall		6	6							
Measured Span (mm)	3585									
Measured At Ring No.	7									
Deflection (mm)	90			2.6% sidewall						
Percent Deflection	3									
Floor		N	6							
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams			5	Barrel leaks through seams from spring line down.						
Separation (mm)	0									
			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)	Yes									
Longitudinal Stagger (Y/N) Yes										
Coating			5	Minor superficial at lower 1/3.						
Corrosion By Soil (Y/N)	Yes			1						
Corrosion By Water (Y/N)	Yes			1						
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, Spa):	, Rise (mm): 3495, Type: SP)							
Fish Passage Adequacy		7	7								
Baffle		Х	Х								
(Туре :)											
Waterway Adequacy		7	7								
Icing (Y/N)	No										
Silting (Y/N)	No										
Drift (Y/N)	No										
Barrel General Rating		6	6								
Downstream End											
Culvert Component		Last	Now	Explanation of Condition							
Direction		E									
End Treatment (Concrete, Steel, Others, None)	STEEL		_								
Headwall		X	X								
Collar		X	X								
Wingwalls		Х	Х								
(Shape:)											
Cutoff Wall		X	X								
Bevel End	1	7	7	-							
Heaving (mm) 0											
Invert Above/Below Stream Bed	BELOW			-							
Above/Below (mm)	300										
Scour Protection		N	6	Well vegetated.							
(Type : NATURAL)				-							
(Avg. Rock Size(mm) :)		1									
Scour/Erosion			6								
Beavers (Y/N)	No										
Downstream End General Ratin	ng	4	6								
		s	Structu	re Usage							
		Last	Now	Explanation of Condition							
Channel (U/S and D/S)			_								
Alignment		7	7								
Bank Stability		6	6								
HWM (m below Top of Culvert)				HWM not visible.							
Drift (Y/N)	No										
Channel Bottom Degrading/Aggrading											
Beavers (Y/N) No											
(Fish Compensation Measure 1 :	NONE)										
(Fish Compensation Measure 2 :	NONE)										
Channel General Rating		7	7								

Maintenance Recommendations												
Inspector Recommendations			Year	Inspecto	r Comments		Department Comments				Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP			2012	S-1418 L	J/S & D/S. 10m3 each	n end.						
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTOFF			2015	Collar at	u/s end.							
REPAIR SEAMS	REPAIR SEAMS											
OTHER ACTION	OTHER ACTION											
OTHER ACTION	OTHER ACTION											
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			66.7/66.7 Sufficiency Rating (%)		(Last/Now)	2.3/64.2 Est. Repl. Yr		2035	Maint. Red	qd. (Y/N)	Yes	
Special Comments for Next Inspection	only cond nother 30 at this tir some time	cern is bev yrs life bu ne. Ripra e.	vel heaving & lack of a t heaving will get wors p is not a concern but	any weight on se; therefore, may want to	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 Owen		Owen	Dwen Salava			Previous	ous Assistant's Name					
Next Inspection Date 11-Ar		11-Apr	I1-Apr-2014			Previous	bus Inspection Date 08-Dec-2010					
Inspection Cycle (Default) (months) 21		21										
Comment												