Bridge Culvert Inspection												
Bridge File Number 70839 -1 Bridge Culvert					o ourr	Form Type			CUL1			
Year Built	1962			Lot No.			1					
Bridge or Town Nam		N			Inspector Na			Owen Salava				
Located Over TRIBUTARY TO BEAVERHILL O					K.	Inspector Class		BR CLS A				
	6.62.7, V	VATERCRS-S	т			Assistant Name						
Located On 15:08 C1 17.180						Assistant Class						
Water Body CI./Year					Inspection Date				09-Jan-2012			
Navigabil. Cl./Year					Data Entry By			Marcia Chavez				
Legal Land Location						Data Entry Date		14-Feb-2012				
Longitude, Latitude -112:41:30, 53:43:16						Review	/er Name		Jason Saly			
Road Authority Alberta Transportation (AIT)					Review Date			28-Jan-2012				
	Contract Main. Area CMA14					Dept. Reviewer Name			Andrew Smikles			
Clear Roadway/Skew		• • •				Dept. Review Date		21-Mar-2012				
AADT/Year	1,610/2				Follow-Up By							
Road Classification	RAU-209	9-110										
Detour Length (km)	5											
Bridge Culvert Infor	1											
Number of Culverts	1				Turne		Longth		Corr Drofilo	DI /Clob	Shana	
Pipe # Barre	ei 5	Span	Rise (or	Dia.)	Dia.) Type		Length		Corr. Profile	PI./Slab Thickness	Shape	
1 MAIN	J 2	2019	2226		SPE		30.5		152X51	3.5	ELLIPSE	
Special Features												
Special Features Co	mment 5	5% V.E.										
				Uti	lities (l	ocated	at)					
Utility Attachments						-						
	ved in Soutl	h ditch.				Gas						
Power		)m North of c/l				Municipal Problem (Y/N) No						
			Problei	m (Y/N)	No							
Remarks			Δ.		h Dee	d / Emale	ankment					
			A	Last			ation of		tion			
Horizontal Alignment					8	Explai		Contai				
Vertical Alignment				8	8	-						
Roadway Width (m)		9.000										
Embankment				6	6							
Sideslope (:1)	Sideslope (:1) 3.0											
(Height of Cover(m	) : <b>1.1</b> )											
Guardrail (Y/N)		No										
Approach Road / Ei	nbankmen	t General Rat	ina	8	8							
						am End						
Culvert Component				Last	Now	Explan	ation of	Condi	tion			
Direction		075-1		S								
End Treatment (Cond Others, None)	crete, Steel,	STEEL										
Headwall			X	X								
Collar			X	X								
Wingwalls			X	X								
(Shape : )					~							
Cutoff Wall				X	X							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Upstream End											
Culvert Component		Last	Now	Explanation of Condition							
Bevel End		4	4	One side buckled from accident damage. Three corrugations torn -							
Heaving (mm)	75			photo. Corrosion similar to barrel.							
Invert Above/Below Stream Bed	BELOW										
Above/Below (mm)	100										
Scour Protection		6	6	Well grassed.							
(Type : <b>RIP RAP</b> )											
(Avg. Rock Size(mm) : 200)											
Scour/Erosion		6	6								
Beavers (Y/N)	No		1								
Upstream End General Rating	1	4	4								
		Bric	lae Cu	lvert Barrel							
Culvert Component		1		Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. Spa			•							
Barrel Last Accessible Date	09-Jan-2012										
Special Features											
Special Feature											
(Type:)			1								
Special Feature											
(Туре : )											
Roof		N	5	Unable to measure due to ice.							
Measured Rise (mm)											
Measured At Ring No.				Est.							
Sag (mm)											
Percent Sag 3											
Sidewall		N	4	Lower sidewalls indicate heavy corrosion on lower sections of the							
Measured Span (mm)	2040			pipe, loss of section.							
Measured At Ring No.	5										
Deflection (mm)	21										
Percent Deflection	1										
Floor		N	N	Under ice.							
Bulge (mm)	0										
Measured At Ring No.											
Abrasion (Y/N)	No										
Circumferential Seams		N	4	Some circumferential seam bolts are corroding.							
Separation (mm)	0										
Longitudinal Seams		N	5	All lapped improperly. R4 W side bolts corroding @ 10:00 o'clock.							
Total No. of Cracked Rings	0										
Total No. of Rings with Two Cracked Seams											
Min. Remaining Steel Between Cracks (mm)											
Proper Lap (Y/N) No				1							
Longitudinal Stagger (Y/N)	Yes			- 1N							
Coating			4	No galvanizing remains at water to air interface. A few spots							
Corrosion By Soil (Y/N)	Yes	N	-+	perforated due to corrosion.							
Corrosion By Water (Y/N)	Yes			-							
Camber POS/ZERO/NEG	NEG										
Callber FUS/ZERU/NEG	INEG										
Ponding (Y/N)	No										

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brie	dge Cu	lvert Barrel							
Culvert Component		Last		Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	): 2019	, Rise (mm): 2226, Type: SPE)							
Fish Passage Adequacy		Х	Х								
Baffle			Х								
(Type:)											
Waterway Adequacy		6	6								
Icing (Y/N)	No										
Silting (Y/N)	No										
Drift (Y/N) No											
Barrel General Rating		4	4								
Downstream End   Culvert Component Last Now Explanation of Condition											
Direction		N									
End Treatment (Concrete, Steel,	STEEL										
Others, None)											
Headwall		X	Х								
Collar		X	Х								
Wingwalls		X	X								
(Shape : )											
Cutoff Wall			Х								
Bevel End		4	4	Corrosion/scaling lower 1/2 similar to barrel corrosion.							
Heaving (mm)	Heaving (mm) 50										
Invert Above/Below Stream Bed BELOW											
Above/Below (mm)	Above/Below (mm) 400										
Scour Protection	Scour Protection			Well grassed in.							
(Type : <b>RIP RAP</b> )											
(Avg. Rock Size(mm) : 200)											
Scour/Erosion			6								
Beavers (Y/N)	No		-1								
Downstream End General Ratio	ng	4	4								
		9	Structu	re Usage							
		Last	Now	Explanation of Condition							
Channel (U/S and D/S)	1	1-0101	1								
Alignment				Channel does not line up with the culvert on either end.							
Bank Stability			6								
HWM (m below Top of Culvert) 0.7											
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			5								

Maintenance Recommendations												
Inspector Recommendations			Year	Inspecto	r Comments		Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT	ACCUMULATION											
	ETE/STEEL LINING											
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTOFF		DFF										
REPAIR SEAMS												
OTHER ACTION			2012	(Concrete floor. 05/June/2007)								
	OTHER ACTION											
OTHER ACTION												
OTHER ACTION					1			1	_			
Structural Condition Rating (Last/Now) (%)			44.4/44.	4	Sufficiency Rating (Last (%)	/Now)	50.1/53.1	Est. Repl. Yr	2015	Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection Consider installing concrete floor in next 3yrs. If installed it will extend life of culvert to 10-15yrs. It appears soil is corrosive in the area. Consider dewatering for a full inspection; pipe nearing end of service life.					Department Comments							
Maintenance Reviewed By							Date		E	Estimated Total	0	
Proposed Long-To												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Jason		Jason S	Jason Saly F			Previous	is Assistant's Name					
Next Inspection Date 09-C		09-Oct-	09-Oct-2013 Pre				s Inspection Date 02-Jun-2010					
Inspection Cycle (Default) (months) 21		21										
Comment												