Bridge Culvert Inspection														
Bridge File Number 77694 -1 Bridge Culvert			rt			Form Type			CULM					
Year Built 1953							Lot No.			4				
Bridge or Town Name HOLDEN						Inspector Name			Owen Salava					
Located Over TRIBUT/ WATER			JTARY TO VERMILION RIVER, 6.5.44, ERCRS-ST				Inspector Class			BR CLS A				
Located On 14:10 C			C1 7.272				Assistant Name							
Water Body Cl./Year							Assistant Class		10 Jan 2012					
Navigabil. CI./Ye	ear						Inspection Date		10-Jan-2012					
Legal Land Location NW SEC			EC 4 TWP 49 RGE 15 W4M											
Longitude, Latitude -112:08		51, 53:12:13		Data E	Data Entry Date		31-Jan-2012							
Road Authority Alber		Alberta <sup>·</sup>	erta Transportation (AIT)						;	Jasui Saly 30- Jan-2012				
Contract Main. Area CMA16		6					Dent Reviewer Name		Androw Smiklos					
Clear Roadway/	/Skew	13.4 / 0	0 deg.						ivame oto	Andrew Smikles				
AADT/Year		1,800/2	2010 (A)				Dept. Review Date		U2-F6D-2U12					
Road Classifica	tion I	RAU-21	3.4-120				Follow-Up By							
Detour Length (	km) :	3												
Bridge Culvert	Informa	ation												
Number of Culv	erts		1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		3352	1676		BP		23.8				RECTANGLE		
Special Feature	s													
Special Feature	s Comm	nent												
	nto				Ut	liities (L	ocated	at)						
Utility Attachments														
Power		South r/w												
Othors	Bailway	av 40m North					Broblog	m (V/N)	No					
Remarks							II ( 171 <b>N</b> )							
Remarks				Δ	nnroad	ch Road	l / Fmb	ankment						
					Last	Now	Explanation of Condition							
Horizontal Alignment			7	7	Intersection with local N-S road 40 m West.									
Vertical Alignment				8	8									
Roadway Width (m)		13.400												
Embankment				6	6	3:1 the	n steeper	ns to 2:	1 at ends of					
Sideslope (	:1)		2.0			-	pipe.							
(Height of Cov	ver(m) : 2	2.2)												
Guardrail (Y/N)		,	Yes											
Approach Road	d / Emba	ankmer	nt General Rat	ing	7	7								
Culurent Commo	un e un t				Leet	Upstre	am End	ation of	Condit	tion				
Culvert Component			Last	NOW	Explan	ation of	Conan	lion						
End Treatment (Concrete, Steel, CONCRETE		3												
Others, None) Headwall			6	6										
Collar		X	X											
Wingwalls			6	6										
(Shape : FLARE)			0	U										
	····)				Y	Y								
					^	^								

Alberta Transportation

	Upstream End									
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		Х	X							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	250									
Scour Protection	•	6	6	Well grassed in.						
(Type : NATURAL)										
(Avg. Rock Size(mm) : )										
Scour/Erosion		7	6							
Beavers (Y/N)	No									
Upstream End General Rating	I	6	6							
		Duid		luart Davral						
Culvert Component			Now	Explanation of Condition						
(Dipo # : 1 Primary Span Local	tion Codo: MAIN Sna	Lasi	110W	Pise (mm): 1676 Type: PP. Coll Sequence: 1)						
Cripe # . 1, Frinary Span, Loca	tion code. MAIN, Spa		). 1070	(hind). 1070, Type. BF, Cell Sequence. 1)						
Barrel Last Accessible Date	10-Jan-2012			vv barrei.						
Special Features		1	1							
Special Feature										
(Type : )										
Special Feature										
(Type : )										
Roof		6	6	Silt & ice on floor, rise could not be measured.						
Measured Rise (mm)			-							
Measured At Ring No.										
Sag (mm)	0									
Percent Sag										
Sidowall		6	6	Madium vartical aracka (0.9mm) randomly through barrol						
Measured Span (mm)	1696	0	0	Span at S end=1686=10mm=0.6%.						
Measured At Ding No.	1000			Span at N end=1686=10mm=0.6%.						
Deflection (mm)	40									
	10			-						
Percent Deflection	1		1							
Floor		N	N	Ice covered.						
Bulge (mm)				-						
Measured At Ring No.				-						
Abrasion (Y/N)			-							
Circumferential Seams		5	5	Steel plates bolted together to close gaps at sidewalls/roof. Void						
Separation (mm)				Tilled with expanded toam.						
Longitudinal Seams		Х	Х							
Total No. of Cracked Rings										
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)										
Longitudinal Stagger (Y/N)										
Coating		X	X							
Corrosion By Soil (Y/N)			~							
Corrosion By Water (V/N)										
	NEC									
Camber FUS/ZERU/NEG										
Ponding (Y/N)	No									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	ation Code: MAIN, Sp	an (mm	): 1676	, Rise (mm): 1676, Type: BP, Cell Sequence: 1)					
Fish Passage Adequacy		6	6						
Baffle			X						
(Type : )									
Waterway Adequacy			7						
Icing (Y/N)	No								
Silting (Y/N)	Yes								
Drift (Y/N)	No								
Barrel General Rating		6	6						
Culturent Common on on t		Bric	ige Cu	Ivert Barrel					
(Dipo # : 1 Primory Spon Loop	tion Code: MAIN Sn	Last	NOW	Explanation of Condition					
Parrel Lest Assessible Date	10 Jon 2012		). 1070	, Rise (inin). 1070, Type. DF, Cen Sequence. 2)					
Barrei Last Accessible Date	10-Jan-2012			E Darrei.					
Special Features			1						
Special Feature									
(Type : )			1						
Special Feature									
(Type : )			1						
Roof	-	6	6	Silt & ice on floor, could not measure rise.					
Measured Rise (mm)									
Measured At Ring No.									
Sag (mm)	0								
Percent Sag									
Sidewall		6	6	Random medium vertical cracks in walls.					
Measured Span (mm)	easured Span (mm) 1772			- Span at N end=1672=4mm=0.2%.					
Measured At Ring No.									
Deflection (mm)	4								
Percent Deflection	0		-						
Floor	-	N	N	Covered with ice. Horz. crack E sidewall at S end.					
Bulge (mm)									
Measured At Ring No.									
Abrasion (Y/N)									
Circumferential Seams		5	5						
Separation (mm)									
Longitudinal Seams		Х	X						
Total No. of Cracked Rings									
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)									
Coating		Х	X						
Corrosion By Soil (Y/N)									
Corrosion By Water (Y/N)									
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	No								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	vert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	): 1676	, Rise (mm): 1676, Type: BP, Cell Sequence: 2)					
Fish Passage Adequacy		6	6						
Baffle			X						
(Туре : )									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	Yes								
Drift (Y/N)	No								
Barrel General Rating			6						
	l.	D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		N							
End Treatment (Concrete, Steel, Others, None)	CONCRETE		1						
Headwall		5	5	Horiz. ck in headwall.					
Collar			X						
Wingwalls		6	6						
(Shape : <b>FLARE</b> )									
Cutoff Wall		X	X						
Bevel End		Х	X						
Heaving (mm)	0								
Invert Above/Below Stream Bed									
Above/Below (mm)	0								
Scour Protection		6	6	Well grassed in.					
(Type : NATURAL)				-					
(Avg. Rock Size(mm) : )									
Scour/Erosion		6	6						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	5	5						
		s	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			7	2 - 1000 mm CSP's under CNR tracks.					
Bank Stability			7						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	rift (Y/N) No								
Channel Bottom NONE Degrading/Aggrading									
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)		_						
Channel General Rating			7						

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Com	Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTO	FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	w)	66.7/66.	7 Sufficiency Rating (Last/Nov (%)	w) 6	67.5/67.6	5/67.6 Est. Repl. Yr 2025		Maint. Reqd. (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 Jas		Saly	Pr	Previous Assistant's Name								
Next Inspection Date 10		-2013	Pr	revious Inspection Date 23-Jun-2010								
Inspection Cycle (Default) (months) 21												
Comment												