Bridge Culvert Inspection													
Bridge File Num	ridge File Number 79176 -1 Bridge Culvert						Form Type			CULM			
Year Built		1982					Lot No.			4			
Bridge or Town	vn Name BOWDEN					Inspector Name				Owen Salava			
Located Over	ARY TO BOW	RY TO BOWDEN CREEK,				Inspector Class		BR CLS A					
3.89.1.2, WATERCRS-ST           Located On         2A:14 C1 28.610						Assistant Name							
Water Body CI./	Year						Assistant Class		0.5.0.4.0.4.4				
Navigabil. CI./Ye							Inspection Date		25-Oct-2011				
Legal Land Loca		NE SEC	C 11 TWP 34 R	GE 1 W5I	М		Data Entry By			Marcia Chavez			
Longitude, Latitu		-114:01	:43, 51:54:32							30-Nov-2011			
Road Authority Alberta Transportation (AIT)				(AIT)			Reviewer Name Review Date		John O'Brien				
Contract Main. A	•								14-Nov-2011				
Clear Roadway/	Skew	11 / 15	deg. (RHF)		1					Andrew Smikle	2S		
AADT/Year			2010 (A)				· ·	Dept. Review Date Follow-Up By		02-Dec-2011			
Road Classificat	tion	RAU-21	1.8-110				FOIIOW-	ор Бу					
Detour Length (I	km)	6					1						
Bridge Culvert	Inform	ation											
Number of Culve	erts		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	2000		MP		27		125X26	2.8	ROUND	
2	MAIN		-	2000		MP		27		125X26	2.8	ROUND	
Special Features	s		CONC FLOOR										
Utility Attachments       Telephone       West r/w.       Power					ilities (L	ies (Located at) Gas Canadian Natural Gas SE. Municipal Drablem (Y(h))							
Others Gas line perpendicular to culverts 40m			U/S.		Probler	n (Y/N) 🛛 🕅	No						
Remarks													
				Ар				ankment ation of C	e n el i	tion			
Horizontal Alignment				Last 6	Now 6	Explanation of Condition Curve & intersection 100m South.							
Vertical Alignme					7	7	Old Hwy 2A (Bowden access).						
Roadway Width			11.000			/	Slight d	Slight dips over structure - previously patched.					
Embankment					6	6							
Sideslope (:	:1)		2.0			-							
(Height of Cov	/ /er(m) :	1.5)					1						
Guardrail (Y/N)			No										
Approach Road	d / Emb	bankme	nt General Rati	ing	6	6							
						Upstre	am End						
Culvert Compo	nent				Last	Now		ation of C	ondi	tion			
(Pipe # : <b>1, Spa</b>	ın Type	e: Prima	ry Span)										
Direction							South p	oipe.					
End Treatment ( Others, None)	Concre	ete, Stee	I, STEEL										
Headwall					Х	Х							
Collar	Collar			Х	Х								
Wingwalls				Х	X								
(Shape : )													

Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Span Type: Primary	v Span)	Luot	110 1	
Cutoff Wall		Х	X	
Bevel End		N	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	0			
Scour Protection		N	5	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Upstream End General Rating		4	5	
opstream End General Rating				
				Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Loca		ban (mm	):	, Rise (mm): 2000, Type: MP)
Barrel Last Accessible Date	25-Oct-2011			South culvert.
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		N	7	
Measured Rise (mm)	1950			
Measured At Ring No.	2			
Sag (mm)	50			2.5%
Percent Sag	2			
Sidewall		N	7	
Measured Span (mm)	2060			
Measured At Ring No.	2			
Deflection (mm)	60			
Percent Deflection	3			
Floor		N	N	0.5m water.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	7	Ring 2/3.
Separation (mm)	70			
Longitudinal Seams		N	X	
Total No. of Cracked Rings				1
				1
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

79176 -1 Bridge Culvert

		Brid	dae Cu	Ivert Barrel				
Culvert Component								
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	):	, Rise (mm): 2000, Type: MP)				
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							
Fish Passage Adequacy		5	5					
Baffle		N	X					
(Туре : )								
Waterway Adequacy		N	7	(400mm. 20Jan2009).				
Icing (Y/N)	Yes							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		N	7					
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Span Type: Primary	/ Span)							
Direction		W		South pipe.				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	X					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape: )								
Cutoff Wall		X	X					
Bevel End		N	7					
Heaving (mm)	0							
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	0							
Scour Protection		N	7					
(Type : <b>RIP RAP</b> )								
(Avg. Rock Size(mm) : 250)								
Scour/Erosion		N	7					
Beavers (Y/N)	No							
Downstream End General Rati	ng	7	7					
				am End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	ary Span)	_						
Direction		E		North culvert.				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	Х					
Collar		N	4	Concrete on South side only & breaking up but stable and grassed.				
Wingwalls		Х	Х					
(Shape: )								
Cutoff Wall		X	X					

Alberta Transportation

Upstream End									
Culvert Component				Explanation of Condition					
(Pipe # : 2, Span Type: Second	dary Span)								
Bevel End		N	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	200								
Scour Protection		N	6						
(Type : <b>NATURAL</b> )									
(Avg. Rock Size(mm) : )									
Scour/Erosion		N	6						
Beavers (Y/N)	No		<u> </u>						
Upstream End General Rating		4	4						
Culvert Component				Ivert Barrel					
Culvert Component (Pipe # : 2, Secondary Span, Lu	ocation Code: MAIN		Now	Explanation of Condition					
Barrel Last Accessible Date	25-Oct-2011	, opan (r	iiii).	, Rise (mm): 2000, Type: MP)					
	25-00(-2011			Used as cattlepass.					
Special Features									
Special Feature		N	5						
(Type : CONC FLOOR)									
Special Feature									
(Туре : )									
Roof		N	6	1.8m concrete floor to roof, R2.					
Measured Rise (mm)									
Measured At Ring No.	2								
Sag (mm)	20								
Percent Sag									
Sidewall		N	6						
Measured Span (mm)	2040								
Measured At Ring No.	2								
Deflection (mm)	40								
Percent Deflection	2								
Floor		N	N						
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		N	6						
Separation (mm)	70								
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		N	6						
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes			1					

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

79176 -1 Bridge Culvert

		Brid	dae Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S			, Rise (mm): 2000, Type: MP)
Ponding (Y/N)	No		-	
Fish Passage Adequacy		Х	Х	
Baffle		X	X	
(Type : )		Λ		
Waterway Adequacy		N	6	
Icing (Y/N)	No		0	
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	6	
g				
Culvert Component		D Last		eam End Explanation of Condition
	ary Span)	Last	WOW	
(Pipe # : 2, Span Type: Second	ary span)	10/		Nextherest
Direction End Treatment (Concrete, Steel,	STEEL	W		North culvert.
Others, None)		X	X	
		^	^	
Collar			X	
Wingwalls		Х	Х	
(Shape : )				
Cutoff Wall		Х	Х	
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		N	7	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>250</b> )				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Ratir	ng	7	7	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		N	7	
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 :	1			
(Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·			1
Channel General Rating	,	7	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/CUTC	)FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	55.6/66.	7 Sufficiency Rating (Last/No (%)	ow) 6	<b>67.1/62.7</b> Est. Repl. Yr 2035		2035	Maint. Reqd. (Y/N		No		
Special Comments for Next Inspection					Department Comments							
Maintenance Reviewed By					Date		E	stimated Total	0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Owen	Salava	F	Previous A	evious Assistant's Name							
Next Inspection Date 25-Ju		2013	F	Previous Inspection Date 08-Feb-2010								
Inspection Cycle (Default) (months)	21											
Comment												