Bridge Culvert Inspection													
Bridge File Numb	ber	09744 -1 Bridge Culvert					Form Type		CULM	CULM			
Year Built		1989				Lot No.		4	4				
Bridge or Town N	lame	ACME					Inspect	or Name	Owen Salava	Owen Salava			
Located Over		TRIBUTARY TO KNEEHILLS CF 3.46.17, WATERCRS-ST						or Class nt Name	BR CLS A	BR CLS A			
Located On		575:02 0			Assistant Class								
Water Body CI./Y	′ear					Inspection Date			25-Jan-2011	25 Jap 2011			
Navigabil. Cl./Ye	ar									Marcia Chavez			
Legal Land Locat	tion	SW SEC	GE 26 W4	1M			ntry Date	03-Mar-2011					
Longitude, Latitu	de	-113:35:	02, 51:30:12				Reviewer Name			John O'Brien			
Road Authority Alberta Transportation (AIT)						Review Date			03-Feb-2011				
Contract Main. A	ct Main. Area CMA29							eviewer Nam		Chris Black			
Clear Roadway/S	Skew	N 9.4 /						eview Date	04-Mar-2011				
AADT/Year		740 / 20	09 (A)		Follow-Up By								
Road Classificati	on	RCU-20	9-110										
Detour Length (k	m)	6											
Bridge Culvert Information													
Number of Culve	rts		2			1							
Pipe # B	arrel		Span	Rise (or E	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1 N	1AIN		-	2700		MP		37	125X26	2.8	ROUND		
2 N	1AIN		-	2700		MP		37	125X26	2.8	ROUND		
Special Features													
Utilities (Located at) Utility Attachments													
	South						Gas						
	N of C	C/L 3 wire O/H 15m					Municip						
Others							Probler	n (Y/N) No					
Remarks				An	nroad	h Roar	l/Emba	Inkment					
						Now	Explanation of Condition						
Horizontal Alignment				8	8	Farm approach 50m East.							
Vertical Alignmer	nt				8	8	Grade increases to East.						
Roadway Width ((m)		9.400										
Embankment					8	8							
Sideslope (:	1)		4.0				-						
(Height of Cove	er(m) :	2.5)											
Guardrail (Y/N)			No										
Approach Road	/ Emb	bankmen	nt General Rat	ing	8	8							
							am End						
Culvert Compor					Last	Now	Explan	ation of Con	dition				
(Pipe # : 1, Spa	n Type	e: Primai	ry Span)		-								
Direction End Treatment (Concrete, Steel, STEEL				S		-							
Others, None) ` Headwall					Х	Х							
Collar					Х	Х							
Wingwalls					Х	X							
(Shape :)					Λ	Λ							
(onape.)						Page							

		1	Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	y Span)			
Cutoff Wall		X	X	
Bevel End		N	7	(Floor silted in N half. 04-Oct-2004).
Heaving (mm)	0			lced over.
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	N	Snow covered.
(Туре:)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating	1	7	7	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	pan (mm	ı):	, Rise (mm): 2700, Type: MP)
Barrel Last Accessible Date	25-Jan-2011			West pipe.
Special Features				
Special Feature				-
(Туре:)				-
Special Feature				-
(Туре:)				
Roof		7	7	(Avg rise @ ends 2735mm. Rise @ mid culvert 2680mm. 04-Oct-
Measured Rise (mm)	2735			2004). Was unable to measure rise due to ice on floor.
Measured At Ring No.	1			(04Oct2004).
Sag (mm)	35			-
Percent Sag	1		_	
Sidewall	1	7	7	-
Measured Span (mm)	2660			-
Measured At Ring No.	3			At mid-span.
Deflection (mm)	40			
Percent Deflection	1			-1.5%
Floor	1	N	N	iced over.
Bulge (mm)	0			-
Measured At Ring No.				-
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	50		_	
Longitudinal Seams	1	X	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		6	6	Surface patina floor, lower walls.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Inspection & Maintenance System (Web 2005)

09744 -1 Bridge Culvert

		Brid	dae Cu	Ivert Barrel
Culvert Component		Last	Now	
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp			, Rise (mm): 2700, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	Х	
(Туре :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			100mm silt D/S end.
Silting (Y/N)	Yes			Small branches 1.5m long in barrel.
Drift (Y/N)	Yes			Minor drift.
Barrel General Rating		7	7	
	1	D	ownsti	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL		_	
Headwall		X	X	
Collar		X	X	
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		N	X	
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	450			
Scour Protection		N	N	Snow covered.
(Туре :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	Snow covered.
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	lary Span)			
Direction		S		-
End Treatment (Concrete, Steel, Others, None)	STEEL		1	
Headwall		X	X	
Collar		X	X	
Wingwalls		Х	Х	_
(Shape:)				
Cutoff Wall		X	X	

Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)							
Bevel End	1	N	7					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW			-				
Above/Below (mm)	500							
Scour Protection		N	N	Snow covered.				
(Туре :)				-				
(Avg. Rock Size(mm) :)								
Scour/Erosion		N	N	Snow covered.				
Beavers (Y/N)	No							
Upstream End General Rating		7	7					
		Duit						
Culvert Component		Last	Now	Ivert Barrel Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN			, Rise (mm): 2700, Type: MP)				
Barrel Last Accessible Date	25-Jan-2011	i, Opan (i	<i>.</i>	East pipe.				
Barrel Last Accessible Date	25-5411-2011			Last pipe.				
Special Features								
Special Feature								
(Type :)								
Special Feature								
(Type:)								
Roof		N	7	(Avg rise @ ends 2735mm. Rise @ mid culvert 2680mm. 04-Oct-				
Measured Rise (mm)	2735			2004). Was not able to measure rise due to ice on floor.				
Measured At Ring No.	1							
Sag (mm) 35				(Upwards. 04Oct2004). 1.3%				
Percent Sag	1							
Sidewall		7	7	Sides wavey - minor @ midspan.				
Measured Span (mm)	2753			At midspan.				
Measured At Ring No.	3							
Deflection (mm)	53							
Percent Deflection	2							
Floor		N	N	Ice covered.				
Bulge (mm)	0							
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams		4	5	No infiltration.				
Separation (mm)	120							
Longitudinal Seams		X	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		6	6	Surface patina floor & lower walls.				
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	ZERO							

Bridge Inspection & Maintenance System (Web 2005)

09744 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2700, Type: MP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle			X						
(Type :)									
Waterway Adequacy		8	8						
Icing (Y/N)	No			100mm silt D/C and					
Silting (Y/N)	Yes			- 100mm silt D/S end. Small branches 1.5m long in barrel.					
Drift (Y/N)	Yes			Minor drift.					
Barrel General Rating									
		D	ownst	ream End					
Culvert Component		Last		Explanation of Condition					
(Pipe # : 2, Span Type: Second	larv Span)								
Direction		N							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall	1	Х	X						
Collar			Х						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall			X						
Bevel End		N	7						
Heaving (mm)	100								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm) 500									
Scour Protection			N	Snow covered.					
(Туре :)									
(Avg. Rock Size(mm) :)									
Scour/Erosion		N	N	Snow covered.					
Beavers (Y/N)	No								
Downstream End General Ratin	ng	7	7						
		Structu		re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			8						
Bank Stability			8						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	Channel Bottom NONE								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		8	8						

			Maintenance Reco	ommenda	ations					
Inspector Recommendations		Year	Inspector Comments		Department Con	nments		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)	77.8/77.8	8 Sufficiency Rating (Last/No (%)	9 (wo	80.2/80.0 Est. Repl. Yr 2035		2035	Maint. Reqd. (Y/N) No		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	Bryan \	Nai	F	s Assistant's Name						
Next Inspection Date 25-A		-2014	F	Previous I	us Inspection Date 20-Feb-2008					
Inspection Cycle (Default) (months)	39									
Comment										