Bridge Culvert Inspection													
Bridge File Num	Number 79872 -1 Bridge Culvert			rt			Form T	уре		CULM			
Year Built	19	910					Lot No.			1			
Bridge or Town	Name T	ILLEY					Inspect	or Name		Tom Carey			
Located Over	E	ID - IRI	RIGATION C, V	WATERC	RS-IC		Inspector Class		BR CLS A				
Located On 876:02 C1 14.868 Water Body Cl./Year							Assistant Name						
Water Body Cl./	/Year						Assista	nt Class					
Navigabil. Cl./Y	ear						Inspect	ion Date		16-Feb-2010			
Legal Land Loc	egal Land Location NE SEC 13 TWP 18 RGE 13 W				4M		Data Er	ntry By		Kelsey Roberts	S		
Longitude, Latit	atitude -111:39:24, 50:31:39						Data Er	ntry Date		23-Mar-2010			
Road Authority	Alberta Transportation (AIT)						Review	er Name		Garry Roberts			
Contract Main.	Main. Area CMA23						Review	Date		24-Feb-2010			
Clear Roadway/Skew 11 /							Dept. R	eviewer	Name	Lorenz Bohner	t		
AADT/Year	AADT/Year 200 / 2008 (A)						Dept. R	eview Da	ate	26-Mar-2010			
Road Classifica	Road Classification RCU-209-110						Follow-	Up By					
Detour Length (	(km) 4	.0					1						
Bridge Culvert	Informat	tion					1						
Number of Culverts 3													
Pipe #	Barrel	Span Rise (or			Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	1	1829	1119		FP		24.2		68X13		ARCH	
2	MAIN		1829	1119	119 FP			24.2		68X13		ARCH	
3	MAIN	-	1700	940 FP		FP		24.2		68X13		ARCH	
Special Feature	ecial Features						1			1	1		
Special Feature	es Comme	ent											
opecial Feature													
					Uti	lities (L	ocated	at)					
Utility Attachme	ents												
Telephone							Gas						
Power	3 wire w	vest dito	ch				Municip	al					
Others							Problem	n (Y/N)	No				
Remarks													
				A	oproac	h Road	d / Emba	nkment					
					Last	Now	Explan	ation of	Condi	tion			
Horizontal Align	nment				7	7	(1·1 ove	(1:1 over culverts)					
Vertical Alignme	ent				7	7							
Roadway Width	n (m)		11.000										
Embankment					N	N	snow covered						
Sideslope (	:1)		4.0				1						
(Height of Cov	ver (m) : )	)											
Guardrail (Y/N)			No										
Approach Roa	d / Emba	Inkmen	t General Rat	ing	7	7							
						Unstre	am End						
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion			
(Pipe # : 1. Spa	an Type:	Primar	v Span)					••••					
Direction			/		S		SOUTH	IEAST					
End Treatment Others, None)	(Concrete	e, Steel	, NONE		_								
Headwall					Х	Х							
Collar					Х	X							

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	Х	
Bevel End		X	Х	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)				
Scour Protection		5	N	Snow
(Туре : )				
(Avg. Rock Size (mm) : )				
Scour/Erosion		5	N	
Beavers (Y/N)	No			
Upstream End General Rating		5	N	
		Bri	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	n): 1829	, Rise (mm): 1119, Type: FP)
Barrel Last Accessible Date	19-Jun-2003			Both ends completly snowed in.
Special Features				
Special Feature				
(Туре : )				
Special Feature				
(Туре : )				
Roof		N	N	(LOCALIZED DAMAGE TO ROOF).
Measured Rise (mm)				1744 x 830 @ W end of ring 1 @ midspan rise 815 (10.1% deft)
Measured At Ring No.				@ midspan, span 1740 (2.4% defl)
Sag (mm)	95			
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	40			
Percent Deflection				
Floor		N	N	(MINOR CORROSION) 2003/06/19
Bulge (mm)	30		_	
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	MID COUPLER HAS SOME DIRT INFILTRATION
Separation (mm)	40			
Longitudinal Seams		X	Х	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Bric	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 1829	, Rise (mm): 1119, Type: FP)
Coating		N	N	(MINOR CORROSION)
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	X	
Baffle		Х	Х	
(Туре : )		1		
Waterway Adequacy	1	N	N	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No		-	
Barrel General Rating		3	3	GENERAL RATING CARRIED FORWARD
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction		N		SOUTHWEST
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall	- -	Х	X	
Collar		Х	Х	
Wingwalls		X	Х	
(Shape : )				
Cutoff Wall		Х	X	
Bevel End		X	Х	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	50			
Scour Protection		N	N	(LARGE RIPRAP-loss of fines around
(Туре : )				bevel end) 2003/06/19 Snow covered
(Avg. Rock Size (mm) : )		,		
Scour/Erosion		N	N	snow covered
Beavers (Y/N)	No			
Downstream End General Ration	ng	6	N	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		S		MIDDLE EAST NORTHEAST SAME AS MIDDLE
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	Х	
Collar		X	X	

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)		_	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	Х	
Bevel End	1	X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			_
Above/Below (mm)	100			
Scour Protection		N	N	snow covered
(Type : )				-
(Avg. Rock Size (mm) : )		1		
Scour/Erosion	_	N	N	snow covered
Beavers (Y/N)	No			
Upstream End General Rating		5	N	
		Brid	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAII	N, Span (ı	mm): 1	829, Rise (mm): 1119, Type: FP)
Barrel Last Accessible Date	21-Jan-1999			Both ends completly snowed in. Covered in snow Unable to access
Special Features				
Special Feature				
(Type : )				_
Special Feature				
(Type : )				
Roof		N	N	(Localized damage to roof)
Measured Rise (mm)				(1744 x 830 @ W end of Ring 1) 2003*06/19
Measured At Ring No.				_
Sag (mm)	50			_
Percent Sag			_	
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	90			
Percent Deflection				
Floor		N	N	(Minor corrosion)
Bulge (mm)	290			_
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	(Mid coupler has some dir infiltration) 2003/06/19
Separation (mm)	120			
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm): 18	829, Rise (mm): 1119, Type: FP)
Coating		N	N	(Minor Corrosion) 2003/06/03
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	X	
Baffle		Х	Х	
(Type : )		1	1	
Waterway Adequacy	1	N	N	
Icing (Y/N)	No			-
Silting (Y/N)	No			-
Drift (Y/N)	No		-	
Barrel General Rating		3	3	General rating carried forward
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		N		MIDDLE WEST: NORTHWEST SAME AS MIDDLE
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	Х	
Wingwalls		Х	Х	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		Х	Х	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	50			
Scour Protection		N	N	snow covered
(Type:)				
(Avg. Rock Size (mm) : )		1		
Scour/Erosion		N	N	snow covered
Beavers (Y/N)	No			
Downstream End General Ratin	ng	5	N	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	ary Span)			
Direction		S		East
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	Х	
Collar		Х	Х	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	lary Span)	1		
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		N	N	snow covered
(Туре : )				
(Avg. Rock Size (mm) : )				
Scour/Erosion		N	N	
Beavers (Y/N)				
Upstream End General Rating		5	N	
		Brie	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm): 17	700, Rise (mm): 940, Type: FP)
Barrel Last Accessible Date	19-Jun-2003			
Special Features				
Special Feature				Both ends completly snowed in.
(Type : )				
Special Feature				
(Type : )				
Roof		N	N	(Localized damage to roof) 2003/06/19
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	95			
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	(minor corrosion)
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams	1	N	N	(mid coupler has some dirt infiltration) 2003/06/19
Separation (mm)				
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brio	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm): 1	700, Rise (mm): 940, Type: FP)
Coating		N	N	(Minor Corrosion) 2003/06/19
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		Х	X	
(Type : )		1		
Waterway Adequacy		N	N	
Icing (Y/N)				-
Silting (Y/N)				-
Drift (Y/N)				
Barrel General Rating		3	3	G.R. carried forward
		D	ownst	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	ary Span)			
Direction		N		West
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		X	Х	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		N	N	Snow
(Type:)				
(Avg. Rock Size (mm) : )				
Scour/Erosion		N	N	
Beavers (Y/N)				
Downstream End General Ratin	ng	5	N	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		9	9	Irrigation gates 75m east
Bank Stability		N	N	Snow
HWM (m below Top of Culvert)				
Drift (Y/N)	No			

Structure Usage									
		Last	Now	Explanation of Condition					
Channel Bottom Degrading/Aggrading	DEGRADING								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		9	9						

Maintenance Recommendations												
Inspector Recommendations			Year	Inspecto	r Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT /	ACCUMULATION											
INSTALL CONCR	ETE/STEEL LINING											
INSTALL STRUTS	6											
INSTALL CONCR	ETE COLLAR/CUTC	DFF										
REPAIR SEAMS												
OTHER ACTION		2	2010	Repair p	ipes							
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			33.3/33.:	3 Sufficiency Rating (Last (%)		Now)	60.1/60.1	Est. Repl. Yr 2010		Maint. Reqd. (Y/N)		Yes
Special Dimensions do not correspond to pipe informed A.T. Feb. 18/10- scheduled				bes- mixed I for repla	d up with old to new form ch cement in 2010.	anges-	Department Comments					
Maintenance Revi	ewed By						Date		E	Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Program	m (Y/N)											
Proposed Action												
Previous Inspector's Name Tim D			Tim Davies				ous Assistant's Name					
Next Inspection D	ate	16-May-2013 Previo					Inspection Date 20-Feb-2007					
Inspection Cycle (	Default) (months)	39										
Comment												