					Bridg	e Gaive	ert Insp						
Bridge File Number 76961 -1 Bridge Culvert						Form Type			CULM				
Year Built		1986					Lot No.		4				
Bridge or Town	Name						Inspector Name			Russel Vanderschaaf			
Located Over			RDER TRIBUTA E RIVER, 8.10.9				Inspector Class			BR CLS B			
		ST					Assistant Name						
Located On		681:02	C1 1.923					ant Class					
Water Body Cl.	/Year							Inspection Date 06-Mar-2012					
Navigabil. Cl./Y	'ear						Data Entry By Theresa Lacusta						
Legal Land Loc	ation	SW SE	C 27 TWP 80 R	GE 12 W	′6M		Data Entry Date 27-Mar-2012						
Longitude, Latit	Longitude, Latitude -119:47:48, 55:57:22							Reviewer Name Eric Carcoux					
Road Authority	d Authority Alberta Transportation (AIT)						Review Date			22-Mar-2012			
Contract Main.	Contract Main. Area CMA05									David Morrisor	1		
Clear Roadway	/Skew	10 /						Review Da	ate	31-Oct-2012			
AADT/Year		320 / 2	011 (A)				Follow	-Up By					
Road Classifica	ation												
Detour Length	(km)	6											
Bridge Culvert	Inform	ation											
Number of Culv	/erts		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Type		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN		-	1400		MP		23		68X13	3.5	ROUND	
2	MAIN		-	1400		MP		23		68X13	3.5	ROUND	
Special Feature	es												
Special Feature	es Comi	ment											
					1145	11:41 /1	(-4					
Litility Attachma	nto				Uti	lities (L	ocated	at)					
Utility Attachme	ents				Uti	lities (L		at)					
Telephone		s o/b No	orth 16m from c/l		Uti	lities (L	Gas	, 					
Telephone Power		s o/h No	orth 16m from c/l		Uti	lities (L	Gas Munici	pal	No				
Telephone Power Others		s o/h No	rth 16m from c/l		Uti	lities (L	Gas Munici	, 	No				
Telephone Power		s o/h No	rth 16m from c/l				Gas Munici Proble	pal m (Y/N)					
Telephone Power Others		s o/h No	rth 16m from c/l		oproac	ch Road	Gas Munici Proble	pal m (Y/N) ankment	-	ion			
Telephone Power Others Remarks	3 lines	s o/h No	orth 16m from c/l				Gas Munici Proble	pal m (Y/N)	-	ion			
Telephone Power Others Remarks Horizontal Align	3 lines	s o/h Na	orth 16m from c/l		oproac Last	Now 8	Gas Munici Proble	pal m (Y/N) ankment	-	ion			
Telephone Power Others Remarks	3 lines	s o/h Na	9.100		oproac Last	ch Road	Gas Munici Proble	pal m (Y/N) ankment	-	ion			
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Width	3 lines	s o/h No			oproac Last	Now 8	Gas Munici Proble	pal m (Y/N) ankment	-	ion			
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment	3 lines	s o/h No	9.100		Last 8	Now 8	Gas Munici Proble	pal m (Y/N) ankment	-	ion			
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (3 lines				Last 8	Now 8	Gas Munici Proble	pal m (Y/N) ankment	-	ion			
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment	3 lines mment ent n (m) -:1) ver(m)		9.100		Last 8	Now 8	Gas Munici Proble	pal m (Y/N) ankment	-	ion			
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (3 lines mment ent n (m) :1) ver(m)	: 2)	9.100	A	Last 8	Now 8	Gas Munici Proble	pal m (Y/N) ankment	-	ion			
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (3 lines mment ent n (m) :1) ver(m)	: 2)	9.100 3.0 No	A	Last 8 8 7	8 8	Gas Munici Proble	pal m (Y/N) ankment nation of	-	ion			
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope ((Height of Co Guardrail (Y/N) Approach Roa	3 lines mment ent n (m) 2:1) ver(m):	: 2)	9.100 3.0 No	A	Diproace Last 8 8	ch Road Now 8 8 7	Gas Munici Proble // Emb Explar	pal m (Y/N) ankment nation of	Condit				
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (3 lines mment ent (m) :1) ver(m)	: 2) bankme	9.100 3.0 No Port General Rat	A	Last 8 8 7	8 8	Gas Munici Proble // Emb Explar	pal m (Y/N) ankment nation of	Condit				
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (3 lines mment ent (m) :1) ver(m)	: 2) bankme	9.100 3.0 No Port General Rat	A	Last 8 8 7	ch Road Now 8 8 7	Gas Munici Proble I / Emb Explar	pal m (Y/N) ankment nation of	Condit				
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (3 lines mment ent (m) ver(m):	: 2) bankme e: Prima	9.100 3.0 No Port General Rate ary Span)	A	Diproace Last 8 8	ch Road Now 8 8 7	Gas Munici Proble // Emb Explar	pal m (Y/N) ankment nation of	Condit				
Telephone Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (3 lines mment ent (m) ver(m):	: 2) bankme e: Prima	9.100 3.0 No Port General Rate ary Span)	A	Last 8 8 7	ch Road Now 8 8 7	Gas Munici Proble I / Emb Explar	pal m (Y/N) ankment nation of	Condit				

Culvert Component Last Now Explanation of Condition				Upstre	eam End
Wingwalls X X X (Shape:) Cutoff Wall X X Bevel End N N N Covered by snow & grass Silt build up. (photo) Invert Above/Below Stream Bed BELOW Above/Below (mm) 200 Scour Protection N N Snow covered (Type: NONE) (Avg. Rock Size(mm):) Scour/Erosion N N Snow covered Beavers (Y/N) No Upstream End General Rating N N Upstream End General Rating N N N Bridge Culvert Barrel Last Now Explanation of Condition (Pipe #: 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP) Barrel Last Accessible Date 06-Mar-2011 West pipe Special Features Special Features	Culvert Component		Last	Now	Explanation of Condition
(Shape:) Cutoff Wall X X X Bevel End N N N Covered by snow & grass Silt build up. (photo) Invert Above/Below Stream Bed BELOW Above/Below (mm) 200 Scour Protection N N N Snow covered (Type: NONE) (Avg. Rock Size(mm):) Scour/Erosion N N N Snow covered Beavers (Y/N) No Upstream End General Rating N N N Bridge Culvert Barrel Last Now Explanation of Condition (Pipe #: 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP) Barrel Last Accessible Date 06-Mar-2011 West pipe Special Features Special Feature	(Pipe #: 1, Span Type: Primary	/ Span)			
Cutoff Wall X X X Bevel End N N N Covered by snow & grass Silt build up. (photo) Invert Above/Below Stream Bed BELOW Above/Below (mm) 200 Scour Protection N N Snow covered (Type: NONE) (Avg. Rock Size(mm):) Scour/Erosion N N Snow covered Beavers (Y/N) No Upstream End General Rating N N Upstream End General Rating N N Bridge Culvert Barrel Culvert Component Last Now Explanation of Condition (Pipe #:1, Primary Span, Location Code: MAIN, Span (mm): Rise (mm): 1400, Type: MP) Barrel Last Accessible Date 06-Mar-2011 West pipe Special Features Special Feature	Wingwalls		X	X	
Bevel End Heaving (mm) Heaving	(Shape:)				
Heaving (mm) 100 Silt build up. (photo) Invert Above/Below Stream Bed BELOW Above/Below (mm) 200 Scour Protection N N (Type : NONE) (Avg. Rock Size(mm) :) Scour/Erosion N N Snow covered Beavers (Y/N) No Upstream End General Rating N N Upstream End General Rating N N Epiloge Culvert Barrel Culvert Component Last Now Explanation of Condition (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm):	Cutoff Wall		X	X	
Invert Above/Below Stream Bed BELOW Above/Below (mm) 200 Scour Protection N N Snow covered (Type: NONE) (Avg. Rock Size(mm):) Scour/Erosion N N Snow covered Beavers (Y/N) No Upstream End General Rating N N Bridge Culvert Barrel Culvert Component Last Now Explanation of Condition (Pipe #: 1, Primary Span, Location Code: MAIN, Span (mm): Rise (mm): 1400, Type: MP) Barrel Last Accessible Date 06-Mar-2011 West pipe Special Features Special Feature	Bevel End		N	N	Covered by snow & grass
Above/Below (mm) 200 Scour Protection	Heaving (mm)	100			Silt build up. (photo)
Scour Protection N N Snow covered (Type: NONE) (Avg. Rock Size(mm):) Scour/Erosion N N Snow covered Beavers (Y/N) No Upstream End General Rating N N Bridge Culvert Barrel Culvert Component Last Now Explanation of Condition (Pipe #: 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP) Barrel Last Accessible Date 06-Mar-2011 West pipe Special Features Special Feature	Invert Above/Below Stream Bed	BELOW			
(Type : NONE) (Avg. Rock Size(mm) :) Scour/Erosion N N Snow covered Beavers (Y/N) No Upstream End General Rating N N Bridge Culvert Barrel Culvert Component Last Now Explanation of Condition (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP) Barrel Last Accessible Date 06-Mar-2011 West pipe Special Features Special Feature	Above/Below (mm)	200			
(Avg. Rock Size(mm):) Scour/Erosion N N Snow covered Beavers (Y/N) No Upstream End General Rating N N N Bridge Culvert Barrel Culvert Component Last Now Explanation of Condition (Pipe #: 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP) Barrel Last Accessible Date 06-Mar-2011 West pipe Special Features Special Feature	Scour Protection		N	N	Snow covered
Scour/Erosion N N Snow covered Beavers (Y/N) No Upstream End General Rating N N Bridge Culvert Barrel Culvert Component Last Now Explanation of Condition (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP) Barrel Last Accessible Date 06-Mar-2011 West pipe Special Features Special Feature	(Type : NONE)				
Beavers (Y/N) Upstream End General Rating N Bridge Culvert Barrel Culvert Component (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): Barrel Last Accessible Date O6-Mar-2011 West pipe Special Features Special Feature	(Avg. Rock Size(mm):)				
Upstream End General Rating N	Scour/Erosion		N	N	Snow covered
Bridge Culvert Barrel Culvert Component Last Now Explanation of Condition (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP) Barrel Last Accessible Date 06-Mar-2011 West pipe Special Features Special Feature	Beavers (Y/N)	No			
Culvert Component Last Now Explanation of Condition (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP) Barrel Last Accessible Date 06-Mar-2011 West pipe Special Features Special Feature	Upstream End General Rating		N	N	
Culvert Component Last Now Explanation of Condition (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP) Barrel Last Accessible Date 06-Mar-2011 West pipe Special Features Special Feature			Brid	dae Cu	ulvert Barrel
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1400, Type: MP) Barrel Last Accessible Date 06-Mar-2011 West pipe Special Features Special Feature	Culvert Component				
Barrel Last Accessible Date 06-Mar-2011 West pipe Special Features Special Feature	•	tion Code: MAIN, Spa			
Special Feature					
	Special Features				
	Special Feature				
(Type:)	(Type:)				
Special Feature	Special Feature				
(Type:)	(Type:)				
Roof 6 7 Can't measure due to ice.	Roof		6	7	
Measured Rise (mm) Estimated.	Measured Rise (mm)				Estimated.
Measured At Ring No.	Measured At Ring No.				
Sag (mm) 36		36			
Percent Sag 3	Percent Sag	3			
Sidewall 6 7 c/l of road, 8.4m from u/s end.	Sidewall		6	7	c/l of road, 8.4m from u/s end.
Measured Span (mm) 1436	Measured Span (mm)	1436			
Measured At Ring No.					
Deflection (mm) 36	Deflection (mm)	36			
Percent Deflection 3	Percent Deflection	3			
Floor N N Can't see due to ice/silt.	Floor		N	N	Can't see due to ice/silt.
Bulge (mm) 0		0			
Measured At Ring No.	Measured At Ring No.				
Abrasion (Y/N) No	Abrasion (Y/N)	No			
Circumferential Seams 6 6	Circumferential Seams		6	6	
Separation (mm) 100	Separation (mm)	100			
Longitudinal Seams X X			Х	Х	
Total No. of Cracked Rings					
Total No. of Rings with Two Cracked Seams	Total No. of Rings with Two				
Min. Remaining Steel Between Cracks (mm)	Min. Remaining Steel				
Proper Lap (Y/N)	, ,				
Longitudinal Stagger (Y/N)					1

		Bric	lvert Barrel	
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1400, Type: MP)
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating	110	6	7	
Barrer General Nating			,	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Direction		N		West pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		N	N	Covered by ice and snow.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	N	Covered by ice and snow.
(Type : NONE)				
(Avg. Rock Size(mm):)				
Scour/Erosion		N	N	Covered by ice and snow.
Beavers (Y/N)	No			
Downstream End General Ratio	ng	N	N	
			Upstre	am End
Culvert Component		1		Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		S		East pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		Х	Х	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200		_	
Scour Protection		N	N	Snow covered.
(Type : NONE)				
(Avg. Rock Size(mm):)				
Scour/Erosion		N	N	Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		N	N	
		Brio	dae Cu	Ivert Barrel
Culvert Component		1	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S			, Rise (mm): 1400, Type: MP)
Barrel Last Accessible Date	06-Mar-2012			East pipe
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		6	6	Can't measure due to ice. estimated
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	60			
Percent Sag	4			
Sidewall		6	6	C/L of road, 10m from u/s end.
Measured Span (mm)	1433			
Measured At Ring No.				
Deflection (mm)	33			
Percent Deflection	22			
Floor		N	N	Can't see due to ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	90			
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)				

		Brio	Bridge Culvert Barrel							
Culvert Component		Last	Now	· •						
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 1400, Type: MP)						
Coating		6	6							
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	No									
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									
Fish Passage Adequacy		7	7							
Baffle		X	Х							
(Type:)										
Waterway Adequacy		5	5							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		6	6							
		D	ownst	ream End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Direction		N		East pipe						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar		Х	Х							
Wingwalls		X	X							
(Shape :)										
Cutoff Wall		Х	Х							
Bevel End		N	N	Can't see due to snow and grass.						
Heaving (mm)	100									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	200									
Scour Protection		N	N	Covered by snow.						
(Type : NONE)										
(Avg. Rock Size(mm):)										
Scour/Erosion		N	N	Covered by snow.						
Beavers (Y/N)	No									
Downstream End General Ratio	ng	N	N							
		S	tructu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		6	6							
Bank Stability		6	6							
HWM (m below Top of Culvert)				No HWM visible.						
Drift (Y/N)	No									

		S	tructu	re Usage
		Last	Explanation of Condition	
Channel Bottom Degrading/Aggrading				Stable
Beavers (Y/N) No				
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		6	6	

Bridge Inspection & Maintenance System (Web 2005)

		Maintenance	Recommend	lations						
Inspector Recommendations	Year	Inspector Comments		Department Com	ments		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS				·						
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTO	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No. (%)	ow) 66.7/66	.7 Sufficiency Rating (Las	st/Now)	61.5/61.5	Est. Repl. Yr	2031	Maint. Re	qd. (Y/N)	No	
Special Comments for Next Inspection				Department Comments						
Maintenance Reviewed By				Date		E	stimated Tota	0		
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Laurie McCarro	on	Previous	Previous Assistant's Name Russel Var			Vanderschaaf			
Next Inspection Date	06-Jun-2015		Previous	Inspection Date	19-Nov-2008					
Inspection Cycle (Default) (months)	39									
Comment										