					ridge	Culve	ert Inspe							
Bridge File Nu							Form Type			CULM				
Year Built 1987  Bridge or Town Name BRUDERHEIM							Lot No.			1				
Located Over 2ND ORDER TRIBUTARY TO BI					A) (E.E.	N	Inspector Name			Melanie Johnson				
Located Over			KDER TRIBUTA (, 6.62.2.1, WAT			KHILL	Inspector Class Assistant Name		BR CLS B					
Located On		830:04	C1 4.513		Assistant Class				-					
Water Body Cl	./Year						Inspection Date			30-Mar-2012				
Navigabil. Cl./	Year					·				Theresa Lacusta				
Legal Land Lo	cation	NW SE	C 6 TWP 56 RC	GE 20 W4M			Data Entry Date		08-May-2012					
Longitude, Lat	itude	-112:58	3:33, 53:48:54					er Name		Eric Carcoux				
Road Authority Alberta Transportation (AIT)				(AIT)			Review Date		25-Apr-2012					
Contract Main. Area CMA14							Dept. R	eviewer	Name	Brent Herrick				
Clear Roadwa	y/Skew	10.9 /						eview Da		12-Jun-2012				
AADT/Year			2011 (A)				Follow-							
Road Classific			11.8-110											
Detour Length		3												
Bridge Culver		nation	_											
Number of Cul			2		,  -									
Pipe #	Barrel		Span	Rise (or Dia	a.)	Гуре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		-	1200	ı	MP		33		68X13	2.8	ROUND		
2	MAIN		-	1200	1	MP	33			68X13	2.8	ROUND		
Special Featur	es													
Special Featur	es Com	ment												
Little Attacker					Utili	ties (L	ocated	at)						
Utility Attachments  Telephone West r/w.							0							
Telephone			<i>h.,</i>				Gas	. al						
Power 3 wires East r/w. Others							Municip Problen		No					
Remarks							1 TODICI	11 (1/14)	140					
Romano				App	roach	n Road	d / Emba	nkment						
						Now	1	Explanation of Condition						
Horizontal Alig	nment				7	7	Field er	ntrance to	NW.					
Vertical Alignm	nent				8	8								
Roadway Widt	:h (m)		10.900											
Embankment					7	7								
Sideslope (_	·1)		3.0		,									
(Height of Co		: 2)	0.0											
Guardrail (Y/N		-,	No											
					_									
Approach Roa	ad / Em	bankme	nt General Rat	ing	7	7								
					ι	Jpstre	am End							
<b>Culvert Comp</b>	onent			L	ast	Now	Explan	ation of	Condi	tion				
(Pipe # : <b>1</b> , <b>S</b> p	oan Typ	e: Prima	ary Span)											
Direction				E			North c	ulvert.						
End Treatment Others, None)	t (Concr	ete, Stee	el, STEEL											
Headwall					Х	Χ								
Collar					Х	Х								
Wingwalls	Wingwalls				Χ	Х								
(Shape:	)													
							_							

			Upstre	am End
<b>Culvert Component</b>		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Cutoff Wall		Х	Х	
Bevel End		N	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Water to crown of culvert.
Above/Below (mm)	500			
Scour Protection		N	7	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	G.R. carried forward from 19/Aug/2005.
		Bri	dge Cu	Ivert Barrel
<b>Culvert Component</b>		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	າ):	, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date				Viewed from ends. Shape appears OK22-Dec-2008
				Water to crown
Special Features				
Special Feature				
(Type:)			1	
Special Feature				
(Type:)			Ι	
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.	400			
Sag (mm)	100			
Percent Sag			T	
Sidewall On any (same)		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)  Percent Deflection				
		NI	T NI	
Floor		N	N	
Bulge (mm)  Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	l NI	
		IN	N	
Separation (mm)		V	V	
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		5	N	Superficial rust on lower 1/222-Dec-2008
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 1200, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	Previous G.R. was "5" from 19/Aug/2005.
				ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)	1		I
Direction End Treatment (Concrete, Steel,	NONE	W		North culvert.
Others, None) Headwall		X	X	
Collar		X	X	
		X	X	
Wingwalls (Shape: )		_ ^		
Cutoff Wall		Х	Х	
Bevel End		N	N	Water to crown
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)		1	1	
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		E		South culvert.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		X	X	

Upstream End									
Culvert Component		Last		Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Bevel End		N	N	Water to crown of pipe					
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	500								
Scour Protection		N	7						
(Type: RIP RAP)									
(Avg. Rock Size(mm): 300)									
Scour/Erosion		N	7						
Beavers (Y/N)	No								
Upstream End General Rating		7	7						
		Brid	dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1200, Type: MP)					
Barrel Last Accessible Date				Shape appears OK22-Dec-2008					
				Water to crown					
Special Features				Tracor to stown					
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		N	N						
Measured Rise (mm)									
Measured At Ring No.									
Sag (mm)	100								
Percent Sag									
Sidewall		N	N						
Measured Span (mm)									
Measured At Ring No.									
Deflection (mm)									
Percent Deflection									
Floor		N	N						
Bulge (mm)									
Measured At Ring No.									
Abrasion (Y/N)									
Circumferential Seams		N	N						
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		5	N	Superficial rust on lower 1/222-Dec-2008					
Corrosion By Soil (Y/N)	No			1					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								
				4					

		Brio	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (n	nm):	, Rise (mm): 1200, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy			5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	Previous G.R. was "5" from 19/Aug/2005.
		D	ownstr	ream End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		W		South culvert.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape: )			1	
Cutoff Wall		Х	X	
Bevel End		N	N	Water to crown
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
			truotuu	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)	<u> </u>	Last	INOW	Explanation of condition
Alignment		8	8	
Bank Stability		N	8	
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 :	NONE)			
(Fish Compensation Measure 2 :				
Channel General Rating		8	8	

77078 -1 Bridge Culvert

			Maintenance Ro	ecommend	ations						
Inspector Recommendations	Year	Inspector C	omments		Department Cor		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING	i										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTO	OFF										
REPAIR SEAMS											
OTHER ACTION	2012	Dewater pip circumferen	e and inspect for failed tial seam. Repair seam i	f required.							
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No.(%)	ow) 55.6/5	5.6 Sı	ufficiency Rating (Last/	Now)	59.7/59.5	Est	. Repl. Yr	2027	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date			E	stimated Tota	1 0	
Proposed Long-Term Strategy										·	
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Jason Saly			Previous Assistant's Name							
Next Inspection Date	30-Jun-2015			Previous Inspection Date 22-Dec-2008							
Inspection Cycle (Default) (months)	39				,						
Comment											