					Brida	e Culve	ert Inspe	ction					
Bridae File Nurr	Bridge File Number 72821 -1 Bridge Culvert					o ouire	Form Type			CULM			
Year Built		1992					Lot No.	/ -		4			
Bridge or Town	Name							or Name		Tom Carey			
Located Over	JTARY TO MACKAY CREEK, 28.3,					or Class		BR CLS A					
Located On			40.221;1:22 L ²	1 40.207			Assistant Name						
Water Body CI./	Year						Assistant Class		08-Feb-2012				
Navigabil. CI./Ye	ear						<u> </u>	Inspection Date Data Entry By		Lauren Korte			
Legal Land Loca	ation	NE SEC	29 TWP 11 R	GE 1 W4N	Л		Data Entry Date			26-Mar-2012			
Longitude, Latit	ude	-110:06	:02, 49:56:24				Reviewer Name			Garry Roberts			
Road Authority Alberta Transportation (AIT)							Review Date		26-Feb-2012				
Contract Main. Area CMA23									Tim Davies				
Clear Roadway/Skew 13.2 /							Dept. Review Date		29-Mar-2012				
AADT/Year		5,160 / 2	2011 (A)				Follow-						
Road Classifica	tion	RAU-21	1.8-110				_	-1 2					
Detour Length (km)	5											
Bridge Culvert		1											
Number of Culv			2										
·	Barrel		Span	Rise (or I	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
	MAIN		-	1400		MP		70			2.8	ROUND	
2 Special Feature	MAIN		-	1400		MP		17			2.8	ROUND	
Utility Attachments Telephone					Uti	ilities (L	Gas						
Power		North R				Municip							
Others	Fibre	Optic So	outh ROW.				Problen	n (Y/N) I	No				
Remarks													
					Last	Now	d / Emba	ation of C	ondi	tion			
Horizontal Align	ment				8	8							
Vertical Alignme					8	8	-						
Roadway Width			27.000			Ū							
Embankment					8	8							
Sideslope (:1)		4.0										
(Height of Cov	/er(m) :	0.7)											
Guardrail (Y/N)			Yes										
Approach Road	d / Emł	bankmei	nt General Rat	ing	8	8							
							am End						
Culvert Compo (Pipe # : 1, Spa		e: Prima	ry Span)		Last	Now	Explana	ation of C	ondi	tion			
Direction			- /		s		West pi	pe South	End.				
End Treatment Others, None)	(Concre	ete, Stee	I, STEEL										
Headwall					Х	X							
Collar					Х	X							
Wingwalls					Х	X							

				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Cutoff Wall		X	X	
Bevel End		6	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection	1	7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		6	7	
opstream End General Rating				
Output On				Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca		pan (mm	<u>)</u> :	, Rise (mm): 1400, Type: MP)
Barrel Last Accessible Date	08-Feb-2012			West pipe.
Special Features				
Special Feature				
(Type :)			_	-
Special Feature				
(Туре :)				
Roof		N	8	
Measured Rise (mm)	1390			
Measured At Ring No.	3			
Sag (mm)	0			
Percent Sag	1			
Sidewall		N	8	
Measured Span (mm)	1410			
Measured At Ring No.	3			
Deflection (mm)	0			
Percent Deflection	1			
Floor		N	5	
Bulge (mm)	0			1
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	5	60mm vertical gap @ floor @ D/S 1/3.
Separation (mm)	40			
Longitudinal Seams		N	X	
Total No. of Cracked Rings	0			1
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				-
Longitudinal Stagger (Y/N)				-
Coating		N	4	Minor corrosion @ top @ ends.
Corrosion By Soil (Y/N)	Yes	ÎN .	4	Alkali and corrosion and stains @ floor.
Corrosion By Water (Y/N)	Yes			Scaling and pitting @ floor @ D/S 1/3.
Sonosion by water (1/11)	100			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

72821 -1 Bridge Culvert

		Brid	dae Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	ı):	, Rise (mm): 1400, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			(Water to 800mm of roof).
Fish Passage Adequacy		7	7	
Baffle		X	Х	
(Туре :)				
Waterway Adequacy		5	4	Rip Rap 300mm DP in D/S bevel.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating	1	N	8	
		Г	ownstr	ream End
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction		N		West pipe North end.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		X	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	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	1	S		East pipe South end.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)		_	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			_
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : RIP RAP)				_
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dae Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo				, Rise (mm): 1400, Type: MP)
Barrel Last Accessible Date	08-Feb-2012		,.	, , , , , , , , , , , , , , , , , , , ,
Special Features				
Special Feature				East Pipe.
(Type :)				_
Special Feature				_
(Type :)				
Roof		Ν	8	
Measured Rise (mm)	1380			_
Measured At Ring No.	4			_
Sag (mm)	20			_
Percent Sag	1			
Sidewall		Ν	8	
Measured Span (mm)	1400			_
Measured At Ring No.	4			_
Deflection (mm)	0			_
Percent Deflection	0			
Floor		Ν	6	
Bulge (mm)				
Measured At Ring No.				_
Abrasion (Y/N)			_	
Circumferential Seams		Ν	5	70mm vertical gap @ floor @ D/S 1/3.
Separation (mm)	25			
Longitudinal Seams		Х	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		Ν	6	Alkali and minor corrosion stains @ floor.
Corrosion By Soil (Y/N)	Yes			Minor corrosion @ top @ ends.
Corrosion By Water (Y/N)	Yes			1
Camber POS/ZERO/NEG	ZERO			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

72821 -1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1400, Type: MP)						
Ponding (Y/N)	Yes			(Water to 800mm of roof).						
Fish Passage Adequacy		7	7							
Baffle		X	Х							
(Type:)										
Waterway Adequacy		5	4	Rip Rap 400mm DP in D/S bevel.						
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		N	8							
		D	ownst	ream End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Direction		N		East pipe North End.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	Х							
Collar		X	Х							
Wingwalls		Х	Х							
(Shape:)										
Cutoff Wall		X	X							
Bevel End		7	7							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm) 200										
Scour Protection		7	7							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		7	7							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	7	7							
		s	Structu	re Usage						
		Last								
Channel (U/S and D/S)										
Alignment			5							
Bank Stability		7	7							
HWM (m below Top of Culvert)	-0.5			(0.5m above North)						
Drift (Y/N)	No									
Channel Bottom Degrading/Aggrading	AGGRADING									
Beavers (Y/N)										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·									
Channel General Rating		5	5							

			Maintenance Rec	ommend	ations					
Inspector Recommendations		Year	Inspector Comments		Department Com	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)	55.6/88.9	9 Sufficiency Rating (Last/No (%)	ow) 5	52.9/67.8 Est. Repl. Yr 20		2030	Maint. Reqd. (Y/		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	Garry F	Roberts	F	Assistant's Name						
Next Inspection Date 08-N		-2013	F	Previous I	us Inspection Date 13-Jul-2010					
Inspection Cycle (Default) (months)	21									
Comment										