					Brida	e Culve	ert Insp	ection				
Bridge File Number 74042 -1 Bridge Culvert			Dirag	C Gaive	ert Inspection Form Type		CULM					
Year Built 1958			•				Lot No.		2			
			VAUXHALL				Inspector Name		Jon Davies			
Located Over		TRIBUTARY TO BOW RIVER, 2.13.7,						tor Class	BR CLS B			
		WATERCRS-ST						Assistant Name				
Located On 36:0		36:04 C	1 50.760				Assista	ant Class				
Water Body CI	./Year						Inspection Date		02-Jan-2012			
Navigabil. Cl./	Year							Data Entry By Alyssa Boynton				
Legal Land Location		NW SE	C 35 TWP 14 F	RGE 16 W	/4M			Data Entry Date 22-Feb-2012				
Longitude, Latitude			:50, 50:13:21				Reviev	Reviewer Name Garry Roberts				
Road Authority		Alberta	Transportation	(AIT)			Reviev	Review Date 20-Jan-2012				
Contract Main.		CMA24					Dept. I	Reviewer Name	r Name Tim Davies			
Clear Roadway	y/Skew	10.6 /					Dept.	Dept. Review Date 24-Feb-2012				
AADT/Year			1,610 / 2010 (A)				Follow-Up By					
Road Classifica		RAU-21	1.8-110									
Detour Length		3										
Bridge Culver												
Number of Cul	T		1	I ,				I		T ,		
Pipe #	Barrel		Span	Rise (or Dia		Туре		Length	Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		3660	2440		BP		17.7		771101411000	RECTANGLE	
Special Feature	·					, <u>, , , , , , , , , , , , , , , , , , </u>	17.7				11201711022	
Special Feature		ment										
					Uti	ilities (L	ocated	at)				
Utility Attachme	ents											
Telephone W. ditch-conduit over headwall							Gas					
Power		ne crosses road 20 m north					Munici					
Others Fibre optic cable west ditch						Proble	m (Y/N) No					
Remarks												
				Α				ankment	iti a m			
Harizantal Alia	Horizontal Alignment				Last 7	7	Explanation of Condition Int 100m N					
					5	5			sing NB on nort	th and no passi	ing SB on south.	
Vertical Alignment  Roadway Width (m) 10.600			3	J 3		-						
Noadway Widt	.11 (111)		10.000									
Embankment					7	6						
Sideslope (:1) 2.0												
(Height of Co	over(m)	: <b>1.1</b> )										
Guardrail (Y/N)	)		Yes				Turn down ends not attached to post at SW or SE.					
Approach Roa	ad / Eml	bankmer	 nt General Rat	ting	5	5						
Culvert Com	onort				Last	Upstre Now			ition			
Culvert Component  Direction			W	INOM		Explanation of Condition  West end.						
End Treatment (Concrete, Steel, CONCRETE		VV		11000	vest ellu.							
Others, None)	t (COHO)	cic, Oicc	i, CONORL IL	-								
Headwall					7	6						
Collar			X	X								
Wingwalls			7	3	Concrete slab has a full length longitudinal crack 20-60mm wide with							
(Shape : FLARE)					a 300mm heave. Broken out sections up to 200mm in diameter exist.							
Cutoff Wall			N	N	buried							

Upstream End									
Culvert Company									
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		X	X						
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	300		Τ_						
Scour Protection		6	6						
(Type : NATURAL)									
(Avg. Rock Size(mm):)			1						
Scour/Erosion		6	6						
Beavers (Y/N)	No								
Upstream End General Rating		6	3						
		Bri	dge Cu	lvert Barrel					
Culvert Component				Explanation of Condition					
	tion Code: MAIN. S			0, Rise (mm): 2440, Type: BP, Cell Sequence: 1)					
Barrel Last Accessible Date	02-Jan-2012		<u>,                                      </u>						
Special Features									
Special Feature				North cell					
(Type:)									
Special Feature									
(Type:)									
Roof		N	6						
	2440	IN	0						
Measured Rise (mm)									
Measured At Ring No.	1								
Sag (mm)	0								
Percent Sag	0		1						
Sidewall	ı	N	5	Spall & vertical crack 3 m from u/s end south wall-rebar exposed.					
Measured Span (mm)	1820			Medium width vertical and longitudinal crack on North and South					
Measured At Ring No.	1			sidewall.					
Deflection (mm)	0								
Percent Deflection	0								
Floor		N	5	(Exposed rebar-100mm water on flr					
Bulge (mm)	0			minor abrasion) 20021009  Minor abrasion seen throughout.					
Measured At Ring No.									
Abrasion (Y/N)	Yes								
Circumferential Seams		N	6						
Separation (mm)	30								
Longitudinal Seams		Х	Х						
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		X	Х						
Corrosion By Soil (Y/N)		^							
Corrosion By Water (Y/N)	DOC								
Camber POS/ZERO/NEG	POS								
Ponding (Y/N)	No								

74042 -1 Bridge Culvert

		Brid	dge Cu	lvert Barrel
<b>Culvert Component</b>		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	ation Code: MAIN, Sp	an (mm	): 1830	), Rise (mm): 2440, Type: BP, Cell Sequence: 1)
Fish Passage Adequacy		Х	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	5	
		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	ation Code: MAIN, Sp	an (mm	): 1830	), Rise (mm): 2440, Type: BP, Cell Sequence: 2)
Barrel Last Accessible Date	02-Jan-2012			South cell.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	6	
Measured Rise (mm)	2440			
Measured At Ring No.	1			
Sag (mm)	0			
Percent Sag				
Sidewall		N	5	Wide vert cracks throughout
Measured Span (mm)	1850			(Rebar exposed 1m from u/s N wall)
Measured At Ring No.	1			
Deflection (mm)	0			
Percent Deflection				
Floor		N	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	
Separation (mm)	30			
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		Х	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	POS			
Ponding (Y/N)	No			

		Brio	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	): 1830	, Rise (mm): 2440, Type: BP, Cell Sequence: 2)
Fish Passage Adequacy		X	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	5	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
		E		EAST.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			And Treated Timber
Headwall		7	6	
Collar		X	Х	
Wingwalls		8	6	T. Timber walls/4 piles per side.
(Shape : FLARE)		1		
Cutoff Wall		X	N	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		5	5	Large scour hole 7 m x
(Type : RIP RAP)				10 m x 1.2 m deep appears well protected on bottom - June 23 2010.
(Avg. Rock Size(mm) : 400)				Unable to confirm depth.
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
		ş	Structu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)			_	
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)	1.5			1m high drift at center wall at U/S. No HWM visible.
Drift (Y/N)	Yes			TO TITTIN VIOLE.
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

		Maintenance F	Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department Cor	mments	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS					3.0				
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION	2012	Remove drift at U/S center wall							
INSTALL CONCRETE/STEEL LINING	3								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION	2012	Install post at SE T.D. reattach SW	T.D.						
OTHER ACTION	2012	Install new concrete apron at U/S.							
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N(%)	low) 55.6/5	Sufficiency Rating (Last	/Now) 62.8/59.9	Est. Repl. Yr	2026 Maint. Re	eqd. (Y/N)	Yes		
Special Comments for Next Inspection			Department Comments						
Maintenance Reviewed By			Date		Estimated Total	al 0			
Proposed Long-Term Strategy						'			
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Tom Carey		Previous Assistant's Name						
Next Inspection Date	02-Oct-2013		Previous Inspection Date	s Inspection Date 23-Jun-2010					
Inspection Cycle (Default) (months)	21		· ·						
Comment									