					Brida	e Culve	ert Inspe	ection						
Bridge File Numl	ber	07690 -	·1 Bridge Culve	rt			Form T		CUL	CUL1				
Year Built 1987							Lot No.		4	4				
Bridge or Town I	Name	COCHE	RANE				Inspect	or Name	Gar	Garry Roberts				
Located Over			ER CREEK, 2.	13.48, WA	ATERO	CRS-	Inspect	or Class		BR CLS A				
		ST						nt Name						
Located On		1A:04 C	21 34.905				Assista	nt Class						
Water Body CI./	Year							ion Date	29-	ug-2012				
Navigabil. Cl./Ye	ear						Data E			Lauren Korte				
Legal Land Loca	tion	NE SEC	C 18 TWP 26 R	GE 5 W5	M			ntry Date		28-Sep-2012				
			10.48 51.13.37					er Name		Tom Carey				
Road Authority Alberta T			Transportation (AIT)					Date		04-Sep-2012				
Contract Main. A	rea	CMA28	<u> </u>				Dept. Reviewer Name			•				
Clear Roadway/S	Skew	11.2 / -2	23 deg. (LHF)					Review Date		02-Oct-2012				
AADT/Year		1,710 /	2011 (A)				Follow-							
Road Classificat	ion	RAU-21	10-110				. 5	-,						
Detour Length (k	(m)	12												
Bridge Culvert I		ation												
Number of Culve	erts		1	1		ı								
Pipe #	Barrel		Span	Rise (or	Dia.)	Type		Length		. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	3658		SP		82.3	152	X51	4.0	ROUND		
Special Features	3											·		
Special Features	s Comr	ment												
•														
					Uti	lities (L	ocated	at)						
Utility Attachmen														
Telephone	North						Gas							
Power	3 wire 150m		fence 30km fro	m c/l & cro	ossing	road	Municip Problem	pal m (Y/N) No						
Others														
Remarks														
				A	pproac	h Road	d / Emba	ankment						
					Last	Now	Explanation of Condition							
Horizontal Alignment					6	6	Curves	Curves on both ends.						
Vertical Alignment				8	8									
Roadway Width	(m)		11.200											
Embankment					5	5								
Sideslope (:	1)		3.0											
(Height of Cov		9.6)												
Guardrail (Y/N)	. , .	,	Yes				One splice over pipe @ South guardrail has only 4 bolts.							
Approach Road / Embankment General Rating				6	6									
						Unstre	am End							
Culvert Compo	nent				Last	Now		ation of Co	ndition					
Direction			1				North.							
End Treatment (Concrete, Steel, CONCRETE Others, None)														
Headwall				5	5	Cracking vertical 0.5mm wide. Cracks up to 3mm wide. Minor spalling @ West.					de. Minor			
Collar					6	6		6mm wide cracks in collar. Additional concrete cast @ outside of original collar.						

07690 -1 Bridge Culvert

2.1				am End
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		X	X	
(Shape:) Cutoff Wall		5	5	Breaking @ West haunch - still functions.
Cuton wan			3	Breaking & West Haurich - Still functions.
Bevel End		5	5	Superficial rust on bevel's floor. Bevel is hollow as viewed through
Heaving (mm)	50			missing grout plug @ West.
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	250			
Scour Protection		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)		1		
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Brid	dge Cu	lvert Barrel
Culvert Component		1	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 3658, Type: SP)
Barrel Last Accessible Date	29-Aug-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	3550			
Measured At Ring No.	9			
Sag (mm)	58			
Percent Sag	1			
Sidewall		7	7	
Measured Span (mm)	3740			
Measured At Ring No.	9			
Deflection (mm)	82			
Percent Deflection	2		_	
Floor	1	4	5	First 4 rings at U/S have concrete pumped behind walls.
Bulge (mm)	90			D/S 1/3 of floor is silt covered
Measured At Ring No.				(Isolated perforations with piping at R10 East side)- Could not confirm.
Abrasion (Y/N)	No			(Dec 8, 2010).
Circumferential Seams		7	7	3 - 9th ring from D/S piping along East sidewall, bulge at mid span @ East sidewall. Hollow spots in haunch area of sidewall.
Separation (mm)	0		_	East sidewall. Hollow spots in naunch area of sidewall.
Longitudinal Seams		7	7	
Total No. of Cracked Rings 0				
Total No. of Rings with Two Ocracked Seams				1N stagger.
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			

		Bri	dge Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	1):	, Rise (mm): 3658, Type: SP)
Coating		5	5	Lower seams show stains and piping, spring from 3rd to 9th ring from outlet East side at 5 o'clock. Leakage @ all haunch seams @ this
Corrosion By Soil (Y/N)	Yes			outlet East side at 5 o'clock. Leakage @ all haunch seams @ this location.
Corrosion By Water (Y/N)	Yes			Superficial corrosion on floor.
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)			_	
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		D	ownsti	ream End
Culvert Component		Last		Explanation of Condition
Direction			1-1-0-11	South.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		6	6	Bevel projects from fill 400 mm.
Heaving (mm)	150			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		6	6	No piping seen between fill & bevel edge.
Beavers (Y/N)	No			
Downstream End General Rating			6	
		5	Structu	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)		1	1-1-0-11	
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Culvert)	2.5			(April 11, 2007) No visible HWM.
Drift (Y/N)	Yes			Logs @ D/S banks in fence at D/S.
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			

Structure Usage									
	L	_ast	Explanation of Condition						
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			7						

			Maintena	nce Recommer	dations						
Inspector Recommendations	Year Inspector Comments				Department Com	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS							-				
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING	ì										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTO	OFF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No. (%)	ow) 77.8/77	'.8 S	Sufficiency Rating (Last/Now) (%)		71.1/71.1 E		. Repl. Yr	2025 Maint. Ro		eqd. (Y/N)	No
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date			ı	Estimated Tota	ıl O	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Garry Roberts			s Assistant's Name							
Next Inspection Date	29-May-2014		s Inspection Date 08-Dec-2010								
Inspection Cycle (Default) (months)	21										
Comment											