Bridge Culvert Inspection													
Bridge File Number 74347 -		74347 -1	47 -1 Bridge Culvert				Form Type			CULE			
Year Built 1954						Lot No.		4					
Bridge or Town Name HINTON			۸			Inspector Name		Shane Hall					
Located Over CACHE P			PERCOTTE CREEK, 8.11.137,			Inspector Class			BR CLS A				
Located On	32 007:16:02 R1 32 000				Assistant Name								
Water Body CL/	32.007,10.02 1(1 32.000				Assistant Class								
Navigabil, CL/Ye	ear						Inspection Date		12-Aug-2012				
Legal Land Location SW SEC 1			29 TWP 51 RGE 24 W5M				Data Entry By			Theresa Lacusta			
Longitude, Latitude -117:30:5			52, 53:25:32				Data Entry Date			09-Sep-2012			
Road Authority Alberta T		Transportation (AIT)				Review Data							
Contract Main. Area CMA13						Dept Reviewer Name		30-AUG-2012					
Clear Roadway	/Skew	25.5 /					Dept. Reviewer Name			Brent Herrick			
AADT/Year		5,630 / 20	2011 (A)				Follow Lip Pu		18-Sep-2012				
Road Classifica	tion	RAD-412	.4-120				Follow-Up By						
Detour Length (km)	1											
Bridge Culvert	Bridge Culvert Information												
Number of Culv	erts	1											
Pipe #	Barrel	S	pan	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	U/S	-		2120		SP		34.7		152X51	3.0	ROUND	
1	MAIN	1	675	1675		BP		116.5				SQUARE	
Special Feature	s												
Special Feature	s Comr	nent											
					1 14	litioo /l	o o o t o d	- 4)					
Utilities (Located at) Utilities (Located at)													
Telephone	North	r/w.	/w. Gas										
Power	5 wires	es OH North r/w.					Municip	al					
Others							Problem (Y/N) No						
Remarks	File ta	g South e	nd.										
Approach Road / Embankment													
				NOW	Local road intersection 50 m SW								
Vertical Alignme						7							
Roadway Width			25.500			1	12.6 WF	RI 129F	BI				
	. (,		23.300										
Embankment						4	Erosion gully at NE 1m x 1m x 50m. Appears relatively stable with rock base.						
Sideslope (:1)		3.0				Ditch drainage CSP's @			@ SE (600mm) & SW (800mm).			
(Height of Cov	ver(m) :	16)	Vee										
Guardrail (Y/N)			Yes										
Approach Road	d / Emb	ankment	General Rat	ing	7	7							
Linstream End													
Culvert Component					Last	Now	Explanation of Condition						
Direction			S										
End Treatment (Concrete, Steel, CONCRETE Others, None)													
Headwall			7	7									
Collar					6 6		Wide tranverse cracks.						
Wingwalls				X	Х								
(Shape:)													

Alberta Transportation

			Upstre	am End								
Culvert Component		Last	Now	Explanation of Condition								
Cutoff Wall			N									
Bevel End			7									
Heaving (mm) 0												
Invert Above/Below Stream Bed BELOW												
Above/Below (mm) 200												
Scour Protection		7	5	Settlement up to 0.5m beside bevel. Stable. Collar undermined								
(Type : RIP RAP)				photo								
(Avg. Rock Size(mm) : 300)												
Scour/Erosion		7	5									
Beavers (Y/N)	No											
Upstream End General Rating		6	5									
	Bridge Culvert Barrel											
Culvert Component	Culvert Component Last Now Explanation of Condition											
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, F	Rise (mm): 2120, Type: SP)								
Barrel Last Accessible Date	12-Aug-2012											
Special Features												
Special Feature												
(Type :)												
Special Feature												
(Type :)												
Roof		7	7									
Measured Rise (mm)	2061											
Measured At Ring No.	8											
Sag (mm)	59											
Percent Sag	3											
Sidewall		7	7									
Measured Span (mm)	2181											
Measured At Ring No.	8											
Deflection (mm)	61											
Percent Deflection	3		_									
Floor		7	7									
Bulge (mm)	0											
Measured At Ring No.												
Abrasion (Y/N)	Yes											
Circumferential Seams		6	6									
Separation (mm)	0											
Longitudinal Seams		7	7									
Total No. of Cracked Rings 0				Not staggered @ end rings.								
Total No. of Rings with Two Cracked Seams				1N stagger elsewhere								
Min. Remaining Steel Between Cracks (mm)												
Proper Lap (Y/N) No												
Longitudinal Stagger (Y/N) No												
Coating		5	5	Rusting @ floor seams due to piping.								
Corrosion By Soil (Y/N)	Yes			Superficial								
Corrosion By Water (Y/N)	Yes											
Camber POS/ZERO/NEG	ZERO											

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

74347 -1 Bridge Culvert

	1	Bric	lge Cu	lvert Barrel				
Culvert Component		Last No		Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, F	Rise (mm): 2120, Type: SP)				
Ponding (Y/N)	No							
Fish Passage Adequacy			4	Steep slope at inlet.				
Baffle		Х	Х					
(Туре :)								
Waterway Adequacy		7	7	(0.7m ice to crown. 2000/04/21)				
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel Extension General Ratin	ıg	7	7					
		Bric	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1675	, Rise (mm): 1675, Type: BP)				
Barrel Last Accessible Date	12-Aug-2012							
Special Features								
Special Feature				"7" CIP Concrete Transition				
(Туре :)								
Special Feature								
(Туре :)								
Roof		5	5	R5 & R6, seepage & rust stains. 15mm displacement @ section 7				
Measured Rise (mm) 1664				(from U/S BP).				
Measured At Ring No.								
Sag (mm)	11							
Percent Sag	1							
Sidewall		5	5	Vertical cracks @ most walls, 4 to 6mm, no stain @ top. Heavy rust				
Measured Span (mm)	1687			stain @ bottom. Seepage through section 5.				
Measured At Ring No.								
Deflection (mm)	12			1				
Percent Deflection	1							
Floor		5	5	Top 20 mm is abraded.				
Bulge (mm)	0							
Measured At Ring No.								
Abrasion (Y/N)	Yes							
Circumferential Seams		5	5	Construction seams, differential settlement is 47mm @ section 18				
Separation (mm)	0			(from U/S BP).				
Longitudinal Seams		Х	X					
Total No. of Cracked Rings	0							
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)	No							
Corrosion By Water (Y/N)	No							
Camber POS/ZERO/NEG	ZERO							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

74347 -1 Bridge Culvert

	1	Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	ı): 1675	, Rise (mm): 1675, Type: BP)
Ponding (Y/N)	No			
Fish Passage Adequacy	-	4	4	Water velocity too high, even at low low flows.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	(0.7m ice to crown. 2000/04/21)
Icing (Y/N)	No		_	
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		N		-
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		X	Х	
Wingwalls		6	6	Wide diagonal crack on West wall.
(Shape : FLARE)			_	
Cutoff Wall		N	N	
Bevel End		Х	Х	
Heaving (mm)			_	
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ration	ng	6	6	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			5	Sharp bend @ inlet.
Bank Stability			6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N) Yes				200mm dia. logs.
Channel Bottom DEGRADING				At d/s end.
Beavers (Y/N) No				
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		5	5	

Maintenance Recommendations												
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/CUTC)FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No(%)	ow)	55.6/55.	.6 Sufficiency Rating (Last/N (%)	low) !	56.6/55.6 Est. Repl. Yr 2045		2045	Maint. Reqd. (Y/N)		No		
Special Comments for Next Inspection				Department Comments								
Maintenance Reviewed By					Date		E	Estimated Total	0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Eric		arcoux		Previous Assistant's Name								
Next Inspection Date 12-1		/-2014		Previous Inspection Date 16-Sep-2010								
Inspection Cycle (Default) (months) 21												
Comment												