Bridge Culvert Inspection													
Bridge File Num	ber	00482 -	1 Bridge Culve	rt			Form Type		CULM				
Year Built 1961							Lot No.			2			
Bridge or Town Name LEDUC								Inspector Name		Todd Warshawski			
Located Over 2ND OR			ORDER TRIBUTARY TO BLACKMUD				Inspector Class			BR CLS B			
		CREEK	., 6.95.2.6.1, WATERCRS-ST				Assistant Name						
Located On		814:02	C1 12.301	12.301				nt Class					
Navigabil CL/Year						Inspec	ion Date		15-Mar-2012				
Navigabil. Cl./Ye	ear						Data E	ntry By		Lisa Fairhurst			
Legal Land Loca	ation	NW SE	C 23 TWP 49 F		Data Entry Date			19-Apr-2012					
Longitude, Latitu	Jde	-113:24	.55, 53:14:42		Reviewer Name			Eric Carcoux					
Road Authority		Alberta	Transportation (AIT)					Date		09-Apr-2012			
Clear Readwoy/Skow 42/45				Dept. Reviewer Name			Brent Herrick						
ADT/Vear 1670/				Dept. Review Date		04-May-2012							
AADT/Year 1,670		1,6707	2011 (A)				Follow	Uр Ву					
Road Classification RCU-2		RCU-2'	10-110										
Detour Length (	km) ∣	5											
Bridge Cuivert	Informa	ation	1										
Ding #	Imper or Cuiverts		l Spop			Turna		Longth		Corr Drofilo	DI /Slob	Shana	
	Darrei	Span Rise (or Dia.		Dia.)	туре		Length		Con. Prome	Thickness	Shape		
1	MAIN		3660 1830 BP		BP	78.6				RECTANGLE			
Special Features										·			
Special Feature													
					Uti	lities (L	ocated	at)					
Utility Attachme	nts	Pr. 1					0						
Telephone	vvest c	altch.					Gas						
Power							IVIUNICI		Nia				
Domorko	No to a	visible					Problei	n (Y/N)	INO				
Approach Road / Embankmont													
				~	Last	Now	Fxplan	ation of	Condi	tion			
Horizontal Align	ment				7	7	SH int. 200m North. Located @ base of North hill. No passing NB.						
Vertical Alignment				6	6						- F		
Roadway Width (m)		9.400	9.400		-	3.0m b	3.0m berm on both sides.						
Embankment				8	8								
Sideslope (:1) 3.0						-							
(Height of Cover(m) : <b>10</b> )													
Guardrail (Y/N)		Yes			Accident damage at SE, 6 posts, 6 sections, and turn down end								
Approach Road	d / Emb	ankme	nt General Rat	ina	6	6				_,			
				3									
						Upstre	am End						
Culvert Compo	nent				Last	Now	Explan	ation of	Condi	tion			
Direction				_	E		-						
End Treatment ( Others, None)	(Concre	te, Stee											
Headwall	Headwall			7	7								
Collar					X	Х							
Wingwalls					5 5		Wide crack in both wingwalls. Large spall on SE wingwall. Still						
(Shape: )							functional.						
Cutoff Wall						N							
							1						

Alberta Transportation

	1	1	Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	6	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>450</b> )				
Scour/Erosion		N	6	
Beavers (Y/N)	avers (Y/N) No			
Upstream End General Rating		5	5	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 1830	, Rise (mm): 1830, Type: BP, Cell Sequence: 1)
Barrel Last Accessible Date	12-Dec-2008			Water/ice too high to enter.
				Viewed from ends, shape and condition appears ok.
Special Features				
Special Feature				
(Type : )			_	
Special Feature				
(Туре : )				
Roof		4	N	(Wide crack 1/3 length from West.) - Dec/08
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		1	N	(Wide crack 1/3 length from West ) - Dec/08
Massured Span (mm)	1929		IN	
Measured At Bing No.	1020			At mid nine
Deflection (mm)	2			
Denection (mm)	2			
	0			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				-
Abrasion (Y/N)				
Circumferential Seams		X	N	
Separation (mm)			_	
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		X	X	(Staining on sidewalls.) - Dec/08
Corrosion By Soil (Y/N)	No	~	~	
Corrosion By Water (Y/N)	No			
Camber POS/7EPO/NEC	NEG			
Ponding (Y/N)	No			

Alberta Transportation

		Brid	lge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	ation Code: MAIN, S	Span (mm	): 1830	, Rise (mm): 1830, Type: BP, Cell Sequence: 1)
Fish Passage Adequacy		7	7	
Baffle		N	N	
(Туре : )				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		4	4	GR carried forward from Dec/08
Culvert Component		Brid	dge Cu	Ivert Barrel
(Pipe # : 1 Primary Span Loss	tion Codo: MAIN	LdSI Snan (mm	110W	Explanation of Condition
Porrel Lost Assessible Date	40 Dec 2000	Span (mm	). 1030	
Barrei Last Accessible Date	12-Dec-2008			viewed from ends, snape and condition appear ok
Special Features		,		
Special Feature				
(Type:)				
Special Feature				
(Туре : )				
Roof		4	N	See cell 1.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		4	N	See cell 1.
Measured Span (mm)	1824			
Measured At Ring No.				
Deflection (mm)	6			
Percent Deflection	0			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		X	N	
Separation (mm)				
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		X	X	(Staining from water, not corrosion.) - Dec/08
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brie	dge Cu	lvert Barrel				
Culvert Component			Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 1830	, Rise (mm): 1830, Type: BP, Cell Sequence: 2)				
Fish Passage Adequacy		7	7					
Baffle		N	N					
(Туре : )								
Waterway Adequacy			7					
Icing (Y/N)	No							
Silting (Y/N)	Yes							
Drift (Y/N) No								
Barrel General Rating			4	GR carried forward from Dec/08				
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		W						
End Treatment (Concrete, Steel, Others, None)	nd Treatment (Concrete, Steel, CONCRETE Others, None)							
Headwall			7					
Collar			Х					
Wingwalls			5	Wide crack with 0.1m2 delam @ NW corner by headwall.				
(Shape : )								
Cutoff Wall			N					
Bevel End			Х					
Heaving (mm) 0								
Invert Above/Below Stream Bed								
Above/Below (mm) 0								
Scour Protection		N	6					
(Type : <b>RIP RAP</b> )								
(Avg. Rock Size(mm) : 400)		1						
Scour/Erosion		N	6					
Beavers (Y/N) No								
Downstream End General Rating			5					
		s	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)			_					
Alignment			7					
Bank Stability			7					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	Yes							
Channel Bottom Degrading/Aggrading								
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating			7					

				Maintenance Rec	ommend	ations					
Inspector Recommendations		⁄ear	Inspecto	r Comments	Department Comments				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	2	012	Seal crac done alre	ck in pipe.Seal crack in pipe if eady	not						
OTHER ACTION		012	Re-lap V	/est guardrail.							
OTHER ACTION		012	Repair g turndowr	uardrail 6 posts, 6 scetions, 1 n end							
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow) 4	4.4/44.	.4 Sufficiency Rating (Las (%)		ow) 5	53.1/53.1	Est. Repl. Yr	2035	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments					
Maintenance Reviewed By						Date		I	Estimated Total	0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
							1				
Previous Inspector's Name	Jason Sa	aly		F	Previous A	Assistant's Name	Bryce Clayte	n			
Previous Inspector's Name Next Inspection Date	Jason Sa 15-Jun-2	aly 2015		F	Previous / Previous I	Assistant's Name	Bryce Clayto	on 3			
Previous Inspector's Name Next Inspection Date Inspection Cycle (Default) (months)	Jason Sa 15-Jun-2 39	aly 2015		F	Previous / Previous I	Assistant's Name	Bryce Clayto 12-Dec-200	on 3			