					Bridg	e Culve	rt Insp	ection						
Bridge File Nur	mber '	74202 -	-1 Bridge Culve	rt			Form 7	уре		CUL1				
Year Built 1986							Lot No.			4				
Bridge or Town	Name I	LUNDB	RECK				Inspec	tor Name		Garry Roberts				
Located Over		ADAIR	CREEK, 2.12.4	8.12, WA	TERC	RS-ST	Inspector Class BR CLS A							
Located On	:	22:08 C	21 22.004				Assista	ant Name						
Water Body Cl.	./Year						Assistant Class							
Navigabil. Cl./Year Legal Land Location SW SEC 7 TWP 12 RGE 1 W5M Longitude, Latitude -114:07:49, 49:58:58 Road Authority Alberta Transportation (AIT) Contract Main. Area CMA27 Clear Roadway/Skew 12 / 22 deg. (RHF) AADT/Year 1,980 / 2011 (A) Road Classification RAU-211.8-110 Detour Length (km) 60 Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Span Rise (or Dia						Inspec	tion Date		05-Jun-2012					
				Л		Data E	Data Entry By Kelsey Roberts							
Longitude, Latitude -114:07:49, 49:58:58						Data Entry Date 05-Jul-2012								
Road Authority Alberta Transportation (AIT)			(AIT)			Reviewer Name			Tom Carey					
Contract Main. Area CMA27 Clear Roadway/Skew 12 / 22 deg							Review Date			18-Jun-2012				
Clear Roadway/Skew 12 / 22 de		deg. (RHF)				Dept. Reviewer Name								
AADT/Year 1,980 / 20						Dept. Review Date			12-Jul-2012					
Road Classifica	ation	RAU-21	11.8-110				Follow-Up By							
Detour Length	(km)	60												
		ation												
Number of Culv	verts		1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		-	1800		SP		133.5		152X51	4.0,3.0	ROUND		
Special Feature	es													
Special Feature	es Comm	nent												
_														
					Ut	ilities (L	ocated	at)						
									1					
Utility Attachments Telephone East side. Power 1 wire - East side 150m from c/l. Others Fibre optics @ East r/w.					Gas									
Telephone East side. Power 1 wire - East side 150m from c/l.					Municipal Problem (VAN) No.									
Others Fibre optics @ East r/w.					Proble	m (Y/N)	No							
Remarks								_						
				Α			1	ankment						
				Last	Now	Explanation of Condition								
Horizontal Alignment			5	5										
Vertical Alignment Roadway Width (m) 12.000		12.000		6	6									
Freehanders and					1		N 45			t D/O f				
Embankment	4)				4	4	stable			be at D/S from springs. Grassed and presently				
Sideslope (10.0\	3.0				Piping	from U/S	end co	oming out of em	bankment app	orox. 2.5m above		
(Height of Co		16.3)	\ <u>\</u>				crown.							
Guardrail (Y/N)			Yes			1								
Approach Roa	ad / Emb	ankme	nt General Rat	ing	5	5								
						Upstre								
Culvert Compo	onent				Last	Now	Explar East	nation of	Condi	tion				
Direction		E	E											
End Treatment (Concrete, Steel, Others, None)														
Headwall			Х	X										
Collar			7	6										
Wingwalls			Х	X										
(Shape:)														
Cutoff Wall					X	X								

			Heatra	om End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		Last 7	NOW 5	Water traveling under bevel					
Heaving (mm)	100	,	5	vvater travering under bever					
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	250	7	7						
Scour Protection		7	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 400)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Upstream End General Rating		7	5						
		Brid	dge Cu	Ivert Barrel					
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 1800, Type: SP)					
Barrel Last Accessible Date	05-Jun-2012								
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		7	7						
Measured Rise (mm)	1750								
Measured At Ring No.	30								
Sag (mm)	50								
Percent Sag	2								
Sidewall		7	7	Piping @ d/s @ south side wall @ d/s 3 rings - 8th ring from D/S					
Measured Span (mm)	1850			Also in Ring 1 North sidewall, Ring 5 long seam, construction damage in Ring 14 North upper sidewall.					
Measured At Ring No.	32			damage in King 14 North upper sidewall.					
Deflection (mm)	50								
Percent Deflection	2								
Floor		7	7						
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	Yes								
Circumferential Seams		7	7						
Separation (mm)	0	,		-					
Longitudinal Seams		7	7						
Total No. of Cracked Rings	0	,	, ,						
Total No. of Rings with Two Cracked Seams	0								
Min. Remaining Steel Between Cracks (mm)	0			3N stagger					
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	Yes								
Coating	. 50	5	5	Minor superficial rust @ U/S and D/S bevel. Corrosion staining					
Corrosion By Soil (Y/N)	Yes	J	J	coming through lower longit seams @ roof bolts coming from soil					
Corrosion By Water (Y/N)	Yes			side					
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	No								

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 1800, Type: SP)					
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No			Approx. 200mm silt in last 4 rings at D/S					
Silting (Y/N)	Yes								
Drift (Y/N)	No								
Barrel General Rating		7	7						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		W		West					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		Х	Х						
Wingwalls		X	X						
(Shape:)									
Cutoff Wall		Х	Х						
Bevel End		6	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm) 300									
Scour Protection		6	6						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 500)									
Scour/Erosion		6	6						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	6	6						
		S	tructu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)			1						
Alignment		7	7						
Bank Stability		7	7						
HWM (m below Top of Culvert)				No visible HWM					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	NONE								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 : NONE)									
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		7	7						

		Moix	ntenance Recommen	dations					
Inspector Recommendations	Department Com	monts		Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS	Year	Inspector Comments		Department Com	ments		raiget real	ESI. COSI	Cal #
PLACE ADDITIONAL RIP RAP									+
REMOVE DRIFT ACCUMULATION									+
INSTALL CONCRETE/STEEL LINING									+
INSTALL STRUTS									+
INSTALL CONCRETE COLLAR/CUTO)FF								+
REPAIR SEAMS	21.1								
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									1
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	ow) 77.8/77	.8 Sufficiency R (%)	ating (Last/Now)	73.4/71.1	Est. Repl. Yr	2030	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	stimated Tota	0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Garry Roberts		Previous	Assistant's Name					
Next Inspection Date	05-Mar-2014		Previous	Inspection Date	07-Oct-2010				
Inspection Cycle (Default) (months)	21		'		<u> </u>				
Comment									