Bridge Culvert Inspection														
			-1 Bridge Culve			Form Type		CUL1						
Year Built/Lined	t	1980/1	984				Lot No.			3				
Bridge or Town	Name	EXSHA	W				Inspect	or Name		Garry Roberts				
Located Over		ELPOCA CK, 2.13.56.20.2, WAT			TERCRS-ST		Inspect	or Class		BR CLS A				
Located On		40:10 C1 48.785					Assista	nt Name						
Water Body Cl.	/Year						Assista	nt Class						
Navigabil. Cl./Y	ear						Inspect	ion Date		24-Jun-2011				
Legal Land Loc	ation	SW SE	C 5 TWP 20 R	3E 8 W5N	/		Data E	ntry By		Alyssa Boynto	n			
Longitude, Latit	ude	-115:05	5:04, 50:39:55				Data E	ntry Date		13-Jul-2011				
Road Authority		Alberta	Transportation	(AIT)			Review	er Name		Tom Carey				
Contract Main.	Area	CMA28	3				Review	Date		28-Jun-2011				
Clear Roadway	/Skew	11 / -27	deg. (LHF)				Dept. F	Reviewer N	ame	Tim Davies				
AADT/Year		440 / 20	010 (A)				Dept. F	Review Dat	e	15-Jul-2011				
Road Classifica	ation	RAU-20	09-110				Follow-	Up By						
Detour Length	(km)	5												
Bridge Culvert Information														
Number of Culv	erts		1			I				I	1			
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
	MAIN F LINER	ULL	-	2000		MP		132.9		125X26	2.8	ROUND		
Special Feature	es													
Special Feature	es Comr	nent												
					Uti	ilities (L	ocated.	at)						
Utility Attachme	ents													
Telephone							Gas							
Power							Municipal Problem (Y/N)							
Others							Probler	n (Y/N)						
Remarks None visible. Approach Road / Embankment														
	Last		Explanation of Condition											
Horizontal Alignment				6	6	Horizontal curve 400 m south.								
Vertical Alignment				7	7	300mm DP EROSN @ SE down to rock								
Roadway Width			11.000											
			11.000											
Embankment					6		is 3:1 to 2: is 2.5 to 1.		ith 2 berms. large berm.					
Sideslope (:1)		2.0	2.0				10 2.0 10 1	••,	argo borni.					
(Height of Co		23)			<u> </u>									
Guardrail (Y/N)			Yes				1 BRO	KEN POST	Г@ S	SE & NW				
Approach Road / Embankment General Rating		6	6											
						Upstre	am End							
Culvert Compo	onent				Last	Now	Explan	ation of C	ondi	tion				
Direction					E									
End Treatment (Concrete, Steel, Others, None)														
Headwall			Х	X										
Collar			7	7										
Wingwalls			Х	Х										
(Shape:)														
Cutoff Wall				Х	Х									

			Upstre	am End					
Culvert Component		Last		Explanation of Condition					
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	100								
Scour Protection		7	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 500)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Upstream End General Rating		7	7						
opstream End General Nating			_ ′						
		Bri	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe #: 2, Secondary Span, Lo	cation Code: MAIN	N, Span (ı	mm):	, Rise (mm): 2000, Type: MP)					
Barrel Last Accessible Date	24-Jun-2011								
Special Festures									
Special Features Special Feature				Elbow in SPCSP at D/S					
(Type:)				Libow III Of Col at D/O					
Special Feature									
(Type:)									
Roof	4000	6	6	Local bulges @ roof & sidewall. Worst bulge dim 2050x1880mm in MP liner-insignificant @ 5m from u/s. from grouting of liner.					
Measured Rise (mm)	1880			-					
Measured At Ring No. 3									
Sag (mm) 120									
Percent Sag	6		1						
Sidewall	I	4	4	2880 spanx 2600 rise @ old pipe @ 5th ring from d/s-crks @ N sidewall.					
Measured Span (mm)	2050			Rating due to cracked seam.					
Measured At Ring No.	3								
Deflection (mm)	50								
Percent Deflection	2								
Floor	I	6	6						
Bulge (mm)	0								
Measured At Ring No.				Minor @ lowerside wall					
Abrasion (Y/N)	Yes								
Circumferential Seams		7	7						
Separation (mm)	90								
Longitudinal Seams		4	4	Cracks in original SPCSP @ 2 o'clock					
Total No. of Cracked Rings 1				- north sidewall. Looking d/s - 10 bolt locations cracked 105 mm steel 5th ring from d/s					
Total No. of Rings with Two Cracked Seams	0			No change at 2011 inspection.					
Min. Remaining Steel Between Cracks (mm)	105								
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	No								
Coating		5	5	Superficial corrosion @ floor.					
Corrosion By Soil (Y/N)	No			1 .					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	No								

Bridge Culvert Barrel										
•		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2000, Type: MP)						
Fish Passage Adequacy		7	7							
Baffle			6	At D/S SPCSP ring only.						
(Type:)										
Waterway Adequacy		6	6							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating			4							
Downstream End										
Culvert Component		Last	Now	Explanation of Condition						
Direction		W								
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	Х							
Collar			Х							
Wingwalls		Х	Х							
(Shape:)										
Cutoff Wall		Х	Х							
Bevel End			7							
Heaving (mm)	0									
Invert Above/Below Stream Bed ABOVE										
Above/Below (mm)	200									
Scour Protection		7	7							
(Type: RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		7	7							
Beavers (Y/N)	No									
Downstream End General Rating			7							
		S	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			7	Spring @ SW						
Bank Stability			6							
HWM (m below Top of Culvert)				Hwm not visible.						
Drift (Y/N) Yes				At u/s channel - Minor.						
Channel Bottom NONE Degrading/Aggrading										
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		7	7							

			Maintenance R	ecommend	dations					
Inspector Recommendations	Year	Year Inspector Comments			Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION		INSTAL POST @	L TWO 5'x6"x8" TT GUARD SE & NW	RAIL						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/I (%)	Now) 44.4/	44.4/44.4 Sufficiency F (%)		Now)	58.9/58.8	Est. Repl. Yr	2030	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date			Estimated Tota	I 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name Garry		ts		Previous	ous Assistant's Name					
Next Inspection Date	24-Mar-2013	3		Previous	Inspection Date					
Inspection Cycle (Default) (months)	21									
Comment										