					Drida	o Culve	rt Inch	oction						
Bridge File Nur	nhor	00172 1 Pridge Cultions				e Cuive	Culvert Inspection			CUL1				
Bridge File Number 09172 -1 Bridge Culvert Year Built 1955							Form Type Lot No.		1					
Bridge or Town Name BULWARK									Owen Salava					
Located Over	IName		ARY TO NELS		EK 5	18.2	Inspector Name Inspector Class		BR CLS A					
Localed Over		WATERO		ON CKE	LK, 5.	10.2,	Assistant Name		BN GLG A					
Located On		599:04 C	1 25.378				Assistant Class							
Water Body Cl./Year						Inspection Date			17-Sep-2012					
Navigabil. Cl./Year						Data Entry By				Marcia Chavez				
Legal Land Location SW SEC 2			2 TWP 38 RGE 11 W4M				Data Entry Date		22-Oct-2012					
Longitude, Latitude -111:28:26		6, 52:13:49				Reviewer Name		John O'Brien						
Road Authority Alberta Tra		ransportation (AIT)				Review Date		27-Sep-2012						
Contract Main. Area CMA21						Dept. Reviewer Name		i						
Clear Roadway/Skew 8.6 /						Dept. Review Date		22-Oct-2012						
AADT/Year		730 / 201	1 (A)				Follow-Up By		22 000 2012					
Road Classifica	ation	RCU-208	3-110				. 3 3p By							
Detour Length (km) 6														
Bridge Culver		nation												
Number of Cul	verts	1								I				
Pipe #	Barrel	S	pan	Rise (or	Dia.)	Туре	Length		Corr. Profile	Pl./Slab Thickness	Shape			
1	U/S	18	810	1118		FP	13.2		65X13		ARCH			
1	MAIN	18	810			FP		20.7		68X13		ARCH		
Special Feature	es													
Special Feature		ment												
•														
					Uti	ilities (L	ocated	at)						
Utility Attachme	ents								1					
Telephone							Gas							
Power	3 wire	e North r/w.					Municipal							
Others	-						Proble	m (Y/N)	No					
Remarks				_										
		Approach Ros					Explanation of Condition							
Harizantal Alia	omont					Now	Field entrance 70m E; 5th pipe from W; 0.75 km from Range Rd.					n Dongo Dd 11		
Horizontal Alignment				7	7	2.					ii Kange Ku. 11-			
Vertical Alignment Roadway Width (m)		8.600		8	8									
Roadway Widi	1 (111)		0.000											
Embankment					8	8								
Sideslope (_			3.0											
(Height of Co		(8.0												
Guardrail (Y/N)			No											
Approach Roa	d / Eml	bankment	General Rat	ing	7	7								
						Upstre	∣ am End							
Culvert Comp	onent				Last	Now		ation of	Condi	tion				
Direction					N									
End Treatment Others, None)	(Concre	ete, Steel,	STEEL											
Headwall					Х	Х								
Collar	Collar			Х	Х									
Wingwalls			Х	X										
vvingwalls					/\									

			Linetre	am End
Culvert Component				
Cutoff Wall		Last X	Now	Explanation of Condition
Cuton wan		^	^	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		6	6	
	T.			
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
opsiream End General Rating				
				Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca		oan (mm):	1810, I	Rise (mm): 1118, Type: FP)
Barrel Last Accessible Date	17-Sep-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof	4005	3	3	
Measured Rise (mm)	1005			
Measured At Ring No.	2			
Sag (mm)	113			10.1%
Percent Sag	10			
Sidewall		4	4	
Measured Span (mm)	1905			
Measured At Ring No.	2			
Deflection (mm)	95			5.2 %
Percent Deflection	5			
Floor	I	5	5	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	40			
Longitudinal Seams		X	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		4	4	Pitting in floor & haunches.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	No Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	1810, F	Rise (mm): 1118, Type: FP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		6	6						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel Extension General Ratin	ng	5	3						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		S							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar			Х						
Wingwalls			Х						
(Shape:)									
Cutoff Wall			X						
Bevel End		4	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	150		1						
Scour Protection		7	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 250)			1						
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Downstream End General Rating		4	6						
		S	tructu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			8	Large slough area. No defined banks.					
Bank Stability			8						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N) No									
Channel Bottom Degrading/Aggrading				Unknown.					
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		8	8						

			Maintenance Ro	ecommend	lations					
Inspector Recommendations		Year Inspector Comments			Department Com		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION	l									
INSTALL CONCRETE/STEEL LINI	NG									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CU	JTOFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last (%)	/Now)	55.6/33.	.3 Sufficiency Rating (Last/	Now)	63.2/55.0	Est. Repl. Yr	2018	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection No action on roo Revise to CUL1 inspection.			n. 2 inspection; confirm rings measured	next	Department Comments					
Maintenance Reviewed By					Date		E	stimated Tota	1 0	
Proposed Long-Term Strategy	2009.0	7.10 Cor	ntinue inspections on regular BIM Cyc	cle. Culvert	s should be ok until	2020.CB			'	
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name Owe		Owen Salava			Assistant's Name					
		17-Dec-2015			Inspection Date	06-Oct-2009				
Inspection Cycle (Default) (months)					,	122.22.2				
Comment										