					Bridg	e Culve	ert Insp	ection							
Bridge File Nun	nber	09172 -4 Bridge Culvert					Form Type			CUL1					
Year Built		1955					Lot No.			4					
Bridge or Town	Name	BULWARK					Inspec	Inspector Name		Owen Salava					
Located Over	WATERCRS-ST					K, 5.18.2, Inspector C Assistant N				BR CLS A					
Located On		599:04 C	25.665					ant Class							
Water Body Cl.	/Year									17 Con 2012					
Navigabil. CI./Y	′ear						Inspection Date Data Entry By		17-Sep-2012 Marcia Chavez						
Legal Land Loc	cation	SW SEC	2 TWP 38 RC	GE 11 W4	М		Data Entry Date			22-Oct-2012					
Longitude, Latit	tude	-111:28:	10, 52:13:49				Reviewer Name			John O'Brien					
Road Authority		Alberta T	ransportation	(AIT)			Review Date			27-Sep-2012					
Contract Main. Area CMA21									Namo	Andrew Smikles					
Clear Roadway	//Skew	8.6 /								22-Oct-2012					
AADT/Year		730 / 20 ⁻	11 (A)			Dept. Review Date Follow-Up By			22-001-2012						
Road Classifica	ation	RCU-208	8-110				голом-ор ву								
Detour Length	(km)	6													
Bridge Culvert	t Inform	ation													
Number of Culv	verts	1	<u> </u>												
Pipe #	Barrel			Туре	Length		Corr. Profile	PI./Slab Thickness	Shape						
1	U/S	1	810	1118		FP		13.2		68X13		ARCH			
1	MAIN	1	810	1118		FP		20.7		68X13	ARCH				
Special Feature	es														
Special Feature	es Comi	ment													
Telephone Power Others Remarks	3 wire	North r/w	۷.				Gas Municipal Problem (Y/N) No								
				Ap	oproa	ch Road	d / Emb	ankment							
						Now	Explanation of Condition								
Horizontal Alignment					8	8	4th pipe from W; 0.43m from Range Rd. 11-2.								
Vertical Alignment				8	8	_									
Roadway Width	Roadway Width (m) 8.600														
Embankment					8	8									
Sideslope (3.0												
(Height of Co	. ,	0.9)	-												
Guardrail (Y/N)			No												
Approach Roa	d / Eml	bankmen	t General Rat	ing	8	8									
						Upstre	am End								
0 1 1 0	onent				Last	Now	Explar	nation of	Condi	tion					
Culvert Compo					Ν		-								
Direction															
	(Concre	ete, Steel	, STEEL												
Direction End Treatment	(Concre	ete, Steel	, STEEL		Х	X									
Direction End Treatment Others, None)	(Concre	ete, Steel	STEEL		X X	X X									
Direction End Treatment Others, None) Headwall	(Concre	ete, Steel	STEEL												

Alberta Transportation

Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
Cutoff Wall			X						
Bevel End			6						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	200								
Scour Protection		7	7						
(Type : RIP RAP)		1							
(Avg. Rock Size(mm) : 250)									
Scour/Erosion			7						
Beavers (Y/N)	No								
Upstream End General Rating		6	6						
		Brid	d <u>ge Cu</u>	lvert Barrel					
Culvert Component		Last		Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span								
Barrel Last Accessible Date	17-Sep-2012								
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type :)		I	_						
Roof		6	6	Unable to measure due to silt, looks ok.					
Measured Rise (mm)		0	0						
Measured At Ring No.									
Sag (mm)									
Percent Sag			0						
Sidewall	1000	6	6						
Measured Span (mm)	1880			-					
Measured At Ring No.	2								
Deflection (mm)	70			3.7%					
Percent Deflection	4								
Floor	1	N	N	Silt covered.					
Bulge (mm)									
Measured At Ring No.									
Abrasion (Y/N)									
Circumferential Seams		6	6						
Separation (mm)	0								
Longitudinal Seams		Х	Х						
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		4	4	Floor pitting, visible at lower corners.					
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes			1					
Camber POS/ZERO/NEG	ZERO								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

09172 - 4 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Location Code: U/S, Span (mm): 1810, Rise (mm): 1118, Type: FP)										
Ponding (Y/N)	No									
Fish Passage Adequacy		6	6							
Baffle		Х	Х							
(Туре :)										
Waterway Adequacy		6	6							
Icing (Y/N)	No									
Silting (Y/N)	Yes									
Drift (Y/N)	No									
Barrel Extension General Ratin	g	6	6							
		D	ownstr	eam End						
Culvert Component		Last		Explanation of Condition						
Direction		S								
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	X							
Collar		Х	Х							
Wingwalls		X	Х							
(Shape :)										
Cutoff Wall		X	X							
Bevel End		6	6							
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	200									
Scour Protection		6	6							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 250)										
Scour/Erosion		6	6							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	6	6							
				re Usage						
Obernal (11/0 and D/0)		Last	Now	Explanation of Condition						
Channel (U/S and D/S) Alignment		8	8	Large slough, no defined channel.						
Bank Stability		8	8							
HWM (m below Top of Culvert)			1	HWM not visible.						
Drift (Y/N)	No			1						
Channel Bottom Degrading/Aggrading	AGGRADING									
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	1									
(Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·			1						
Channel General Rating			8							

Maintenance Recommendations											
Inspector Recommendations	Yea	Year Inspector Comments			Department Comments					Est. Cost	Cat #
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	DFF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow) 66.7	.7/66.7	7 Sufficiency Rating (Last/Nov (%)	w) 6	67.0/66.9 E		Repl. Yr	2019	2019 Maint. Re		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 Owen Salava Previo					Assistant's Name						
Next Inspection Date	17-Dec-201	7-Dec-2015			Previous Inspection Date 02-Nov-2009						
	39										
Comment											