Bridge Culvert Inspection													
Bridge File Number 75621 -1 Bridge Culvert						Form Type			CUL1				
Year Built	1964								4				
Bridge or Town Name	MENAIK					Inspector Name			Owen Salava				
Located Over	TRIBUTA	ARY TO MASH	KWA CRE	EK,		· · ·		BR CLS A					
		4, WATERCR				Assista	Int Name						
Located On	2:28 R1	10.676;2:28 L	1 10.677			Assista	nt Class						
Water Body Cl./Year					Inspection				22-Feb-2013				
Navigabil. Cl./Year				4.5.4		Data Entry By			Marcia Chavez				
Legal Land Location		12 TWP 44 R	GE 26 W	4IVI		Data E	ntry Date		11-Mar-2013				
Longitude, Latitude						Reviewer Name			John O'Brien				
Road Authority						Review Date		27-Feb-2013					
Contract Main. Area	CMA17					Dept. Reviewer Name		Chris Black					
Clear Roadway/Skew AADT/Year	ay/Skew 22.8 / -15 deg. (LHF) 24,500 / 2011 (A)				Dept. Review D			ate	14-Mar-2013				
Road Classification	RAD-412					Follow	Follow-Up By						
Detour Length (km)	1	2.4-120											
Bridge Culvert Inform													
Number of Culverts	1												
Pipe # Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 MAIN	2	2019	2226		SPE		128.2		152X51	3.5,3.5,3.5	ELLIPSE		
Special Features									·	•			
Special Features Com	ment												
				Uti	lities (L	ocated	at)						
Utility Attachments						0							
Telephone					Gas Municipal								
Power Others					Problem (Y/N) No								
Remarks			FIUDIEI	II (1/IN)	INU								
Remains			Δι	onroa	ch Road	d / Emb	ankment						
		Now	Explanation of Condition										
Horizontal Alignment					8	In sag of vertical curve.							
Vertical Alignment				6	6								
Roadway Width (m) 22.800													
Embankment				6	6	SW en	SW embankment erosion due to channel misalignment.						
Sideslope (:1)	3.0					1							
(Height of Cover(m)	: 12)												
Guardrail (Y/N)		Yes											
Approach Road / Em	bankmen	t General Rat	ing	6	6								
					Upstre	am End							
Culvert Component				Last	Now		ation of	Condi	tion				
Direction				W									
End Treatment (Concr Others, None)	ete, Steel,	STEEL											
Headwall			Х	Х									
Collar			Х	Х									
Wingwalls			Х	Х									
(Shape :)													
Cutoff Wall				X	X								

Alberta Transportation

			Upstre	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		5	5						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	300								
Scour Protection		5	N	Bevel projects 800mm from fill.					
(Type : NATURAL)		· · · ·		Snow covered.					
(Avg. Rock Size(mm) :)									
Scour/Erosion		5	N	Snow covered.					
Beavers (Y/N)	No								
Upstream End General Rating		5	5						
		Bri	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	n): 2019), Rise (mm): 2226, Type: SPE)					
Barrel Last Accessible Date	22-Feb-2013								
Special Features									
Special Feature									
(Туре :)									
Special Feature									
(Туре :)									
Roof		7	7	Unable to measure due to ice.					
Measured Rise (mm)	2160								
Measured At Ring No.	20								
Sag (mm) 66				(from unknown date)					
Percent Sag 3									
Sidewall	•	6	6	Span @ R2 = 1992, 27mm. R10 = 2004, 15mm. R30 = 2031, 12mm.					
Measured Span (mm)	2087		U	R40 = 2023, 4mm. R50 = 1993, 26mm.					
Measured At Ring No.	20			-					
Deflection (mm)	68			-					
Percent Deflection	3			3.4%					
Floor	0	6	N	Ice					
Bulge (mm)	0	0	IN						
Measured At Ring No.	0			-					
Abrasion (Y/N)	No			-					
Circumferential Seams	NO	7	7						
	0	1	/						
Separation (mm)	0		-						
Longitudinal Seams	0	7	7						
Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams	0			-					
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)	No			-					
Longitudinal Stagger (Y/N)	Yes			-					
	100	F	E	Superficial correction @ longitudinal come ? waterline					
Coating	Vee	5	5	Superficial corrosion @ longitudinal seams & waterline. Minor leakage through some bolt holes.					
Corrosion By Soil (Y/N)	Yes								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	No								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel												
Culvert Component		Last	Now	Explanation of Condition								
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2019									
Fish Passage Adequacy		6	6									
Baffle			X									
(Type :)		X	~									
Waterway Adequacy		7	7									
Icing (Y/N)	No	,	1									
Silting (Y/N)	No											
Drift (Y/N)	Yes											
Barrel General Rating	103	6	6									
Barrel General Kating		0	0									
Downstream End												
Culvert Component		Last	Now	Explanation of Condition								
Direction		E										
End Treatment (Concrete, Steel, Others, None)	STEEL		1									
Headwall		X	X									
Collar			Х									
Wingwalls		Х	Х									
(Shape :)												
Cutoff Wall			Х									
Bevel End			5									
Heaving (mm)	0											
Invert Above/Below Stream Bed	BELOW											
Above/Below (mm)	300											
Scour Protection			N	Snow covered; previous rating 4 on 13Jul2011.								
(Type : NATURAL)												
(Avg. Rock Size(mm) :)												
Scour/Erosion			4	15 x 6m scour hole 1m deep not creating a problem.								
Beavers (Y/N) No												
Downstream End General Rati	l	4	4									
	•											
				re Usage								
		Last	Now	Explanation of Condition								
Channel (U/S and D/S)		4										
Alignment			4	(U/S end does not line up with channel causing erosion @ SW embankment, minor. 13Jul2011) - Snow covered; looks OK, rating carried forward.								
Bank Stability			5									
HWM (m below Top of Culvert)				No HWM visible.								
Drift (Y/N)	No											
Channel Bottom Degrading/Aggrading												
Beavers (Y/N) Yes												
(Fish Compensation Measure 1 :	1											
(Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·											
Channel General Rating	,	4	4									

Maintenance Recommendations											
Inspector Recommendations			Year	Inspector Comments		Department Con	nments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTOFF		DFF									
REPAIR SEAMS											
OTHER ACTION											_
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)			66.7/66.	.7 Sufficiency Rating (Last/N (%)	low) 6	62.6/62.6	Est. Repl. Yr	2033 Maint.		Reqd. (Y/N) No	
Special Comments for Next Inspection						Department Comments					
Maintenance Rev	flaintenance Reviewed By				Date		E	Estimated Total	I 0		
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Owen S			wen Salava Previous A			Assistant's Name					
Next Inspection Date 22-No		22-Nov	2-Nov-2014 P			nspection Date	13-Jul-2011				
Inspection Cycle (Default) (months) 21		21									
Comment											