				Rric	ae Culv	ert Inspection						
Bridge File Nu	mher	70491 -1	Bridge Culve		ge Cuiv	Form Type		CULM				
Year Built	ilibei	1962	Driuge Cuive	71 L		Lot No.		4				
Bridge or Town	n Name					Inspector Na	me	Melanie Johnson				
Located Over	Tivallic		ARY TO TOA	Inspector Cla		BR CLS B						
Localog Over		WATERO			_,	Assistant Nar		51. 020 5				
Located On		33:04 C1	7.244			Assistant Cla						
Water Body Cl	./Year					Inspection Date		23-Aug-2011				
Navigabil. Cl./	Year					Data Entry By		Theresa Lacusta				
Legal Land Lo	cation	SW SEC	35 TWP 55 F	RGE 3 W5M		Data Entry Date		19-Sep-2011				
Longitude, Lat	itude	-114:20:5	56, 53:47:43			Reviewer Name		Eric Carcoux				
Road Authority Alberta Transportation (AIT)				(AIT)		Review Date		07-Sep-2011				
Contract Main. Area CMA10						Dept. Review	er Name	Brent Herrick				
Clear Roadwa	y/Skew	9.4 / 0 de				Dept. Review Date		28-Sep-2011				
AADT/Year		2,070 / 2	010 (A)			Follow-Up By						
Road Classific	ation	RAU-211	.8-110									
Detour Length		29										
Bridge Culver												
Number of Cul	1	2			_							
Pipe #	Barrel	S	Span	Rise (or Dia.)	Type	Lengt	h	Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN	-		2200	MP	30		125X26	2.8	ROUND		
2	MAIN	-		2200	MP	30		125X26	2.8	ROUND		
Special Featur	-			1220		700		1207.20		11100112		
Special Featur		ment										
5, 555												
				Ų	tilities (Located at)						
Utility Attachm												
Telephone	West	r/w.				Gas						
Power	7 lines	s East r/w	•			Municipal						
Others						Problem (Y/N) No					
Remarks												
						d / Embankme						
Harizantal Alia	nmont							tion				
Horizontal Alignment			·	Las		Explanation	of Condi					
	ont			7	7		of Condi					
Vertical Alignm	nent					Explanation Crest curve to	of Condi					
	nent			7	7	Crest curve to Field access	of Condi the Nort to NW.	h.				
	nent			7	7	Explanation Crest curve to	of Condi the Nort to NW.	h.				
Vertical Alignm				7	7	Crest curve to Field access	of Condictory of the Norte of NW.	h.				
			9.400	7	7	Crest curve to Field access Asphalt patch	of Condictory of the Norte of NW.	h.				
Vertical Alignm			9.400	7 7	7 7	Crest curve to Field access Asphalt patch	of Condictory of the Norte of NW.	h.				
Vertical Alignm Roadway Widt Embankment	h (m)			7	7	Crest curve to Field access Asphalt patch	of Condictory of the Norte of NW.	h.				
Vertical Alignm Roadway Widt Embankment Sideslope (_	h (m) _:1)	0.8)	9.400	7 7	7 7	Crest curve to Field access Asphalt patch	of Condictory of the Norte of NW.	h.				
Roadway Widt Embankment Sideslope (_ (Height of Co	h (m) _:1) over(m) :	0.8)	4.0	7 7	7 7	Crest curve to Field access Asphalt patch	of Condictory of the Norte of NW.	h.				
Vertical Alignm Roadway Widt Embankment Sideslope (_	h (m) _:1) over(m) :	0.8)		7 7	7 7	Crest curve to Field access Asphalt patch	of Condictory of the Norte of NW.	h.				
Roadway Widt Embankment Sideslope (_ (Height of Co	h (m) _:1) over(m) :		4.0 No	7 7	7 7	Crest curve to Field access Asphalt patch	of Condictory of the Norte of NW.	h.				
Roadway Widt Embankment Sideslope (_ (Height of Co	h (m) _:1) over(m) :		4.0 No	7 7	7 7	Explanation Crest curve to Field access Asphalt patch East end mea	of Condictory of the Norte of NW.	h.				
Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N	h (m) _:1) over(m) :) ad / Emb		4.0 No	7 7 7 ting 7	7 7 7 Upstre	Explanation Crest curve to Field access Asphalt patch East end mea	of Condi to the Nort to NW.	h. es.				
Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Ro	h (m) _:1) over(m) :) ad / Emb	oankmen	4.0 No t General Ra	7 7	7 7 7 Upstre	Explanation Crest curve to Field access Asphalt patch East end mea	of Condi to the Nort to NW.	h. es.				
Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Road Culvert Comp (Pipe # : 1, Sp	h (m) _:1) over(m) :) ad / Emb	oankmen	4.0 No t General Ra	7 7 7 ting 7 Las	7 7 7 Upstre	Explanation Crest curve to Field access Asphalt patch East end means am End Explanation	of Condi to the Nort to NW.	h. es.				
Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Road Culvert Comp (Pipe # : 1, Sp Direction	h (m) _:1) over(m) :) ad / Emb	oankmen e: Primar	4.0 No t General Ra y Span)	7 7 7 ting 7	7 7 7 Upstre	Explanation Crest curve to Field access Asphalt patch East end mea	of Condi to the Nort to NW.	h. es.				
Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Road Culvert Comp (Pipe # : 1, Sp	h (m) _:1) over(m) :) ad / Emb	oankmen e: Primar	4.0 No t General Ra y Span)	7 7 7 ting 7 Las	7 7 7 Upstre	Explanation Crest curve to Field access Asphalt patch East end means am End Explanation	of Condi to the Nort to NW.	h. es.				

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	y Span)			
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Rrie	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. Spa			, Rise (mm): 2200, Type: MP)
Barrel Last Accessible Date	11-Nov-2009	\	·/·	Water 1.3m from crown.
Barror East / toocoolbio Bato	111107 2000			Pipe viewed from ends, shape and condition look good.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	2172			(11-Nov-2009)
Measured At Ring No.	2			
Sag (mm)	28			
Percent Sag	2			
Sidewall		7	7	
Measured Span (mm)	2250			(11-Nov-2009)
Measured At Ring No.	2			
Deflection (mm)	50			
Percent Deflection	3			
Floor		7	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	N	
Separation (mm)	20			
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				1
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				1
Longitudinal Stagger (Y/N)				
				4

	Bridge Culvert Barrel								
Culvert Component			Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm):		, Rise (mm): 2200, Type: MP)					
Coating		5	5	Superficial rust lower 1/2.					
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		7	N	GR was 7 from 11-Nov-2009					
				eam End					
Culvert Component	0	Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	(Span)	l_							
Direction	I	E		South barrel.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		Х	Х						
Wingwalls		Х	X						
(Shape:)									
Cutoff Wall		Х	Х						
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	300								
Scour Protection		7	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 200)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	7	7						
			Instra	am End					
Culvert Component				Explanation of Condition					
(Pipe # : 2, Span Type: Second	arv Span)								
Direction	, ,	W		North barrel.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		Х	X						

70491 -1 Bridge Culvert

	am End			
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)			1	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dge Cu	Ivert Barrel
Culvert Component		1	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2200, Type: MP)
Barrel Last Accessible Date	11-Nov-2009			Water 1.3m from crown-pipe viewed from ends-shape and condition appear adequate.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	2168			(11-Nov-2009)
Measured At Ring No.	2			end of barrel creased
Sag (mm)	32			
Percent Sag	2			
Sidewall		7	7	
Measured Span (mm)	2246			(11-Nov-2009)
Measured At Ring No.	2			(11100 2003)
Deflection (mm)	46			
Percent Deflection	2			
Floor		7	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	N	
Separation (mm)	10			
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)				

	Bridge Culvert Barrel									
Culvert Component				Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2200, Type: MP)						
Coating			5	Superficial rust lower 1/2.						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									
Fish Passage Adequacy		7	7							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		9	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		7	N	GR was 7 from 11-Nov-2009						
		D	ownstr	ream End						
Culvert Component		1	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Direction		E		North pipe.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	Х							
Collar		Х	Х							
Wingwalls		Х	Х							
(Shape:)										
Cutoff Wall		Х	Х							
Bevel End		5	5							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	300									
Scour Protection	'	7	7							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 200)										
Scour/Erosion		7	7							
Beavers (Y/N)	No									
Downstream End General Ratio	ng	5	5							
		S	truc <u>tu</u>	re Usage						
			Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		6	6							
Bank Stability		7	7							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	No			The violate.						

Structure Usage							
		Last	Now	Explanation of Condition			
Channel Bottom Degrading/Aggrading							
Beavers (Y/N)	No						
(Fish Compensation Measure 1 :	NONE)						
(Fish Compensation Measure 2 :	NONE)						
Channel General Rating 6 6							

				Maintenanc	e Recommend	lations					
Inspector Recommendations	\	Year	Inspecto	r Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC)FF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		77.8/55.6	Sufficiency Rating (Last (%)		ast/Now)	71.5/60.3	Est. Repl. Yr	2044 Maint. Re		qd. (Y/N)	No
Special Comments for Next Inspection						Department Comments					
Maintenance Reviewed By						Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Melanie	Melanie Johnson			Previous	Previous Assistant's Name					
Next Inspection Date	23-May-	3-May-2013			Previous	Inspection Date					
Inspection Cycle (Default) (months)	21										
Comment											