					Brida		ort Inco	ection					
Bridge File Nu	1 Bridge Culve	rt	ынад	idge Culvert Inspection Form Type			CULM						
Year Built/Lined 1990/200							Lot No.		4				
Bridge or Towr		1000/20						tor Name		Owen Salava			
Located Over	Traine							nspector Class BR CLS A					
		6.146.2	, WATERCRS-	ST	<u>, , , , , , , , , , , , , , , , , , , </u>		Assistant Name						
Located On 13:04			N/ C1 3 862					Assistant Class					
Water Body Cl	./Year						Inspection Date			25-Jun-2012			
Navigabil. Cl./	rear							Intry By		Marcia Chavez			
Legal Land Loo	cation	SW SE						Data Entry Date 15-Jul-2012					
Longitude, Lati	itude	-114:54	11.51.30 52.55.53					ver Name		John O'Brien			
Road Authority	/	Alberta	Transportation	(AIT)				Review Date 05-Jul-2012					
Contract Main.	Area	CMA17						Reviewer N	ame	Andrew Smikle	25		
Clear Roadway	y/Skew	8.8 /					· · ·	Review Dat		19-Jul-2012			
AADT/Year		780 / 20	011 (A)				· ·	-Up By	0	10 001 2012			
Road Classific	ation	RAU-20	09-110					op by					
Detour Length	(km)												
Bridge Culver	t Inform	nation											
Number of Cul	verts		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
2	MAIN F	ULL	-	900		SSP		45.4			7.0	ROUND	
3	MAIN		-	1524		SSP		50			9.5	ROUND	
Special Featur	es												
Special Featur	es Comi	ment											
					Uti	ilities (L	ocated	at)					
Utility Attachm	ents												
Telephone	Buried	d South i	r/w.				Gas						
Power	3 wire	North r/	/w.				Munici	pal					
Others							Proble	m (Y/N)	١o				
Remarks	Phone	e laid acı	ros inlet.										
				A			1	ankment					
					Last	Now	<u> </u>	nation of C					
Horizontal Alig					7	7	Reside		s We	est, both sides.	Field access E	ast, South side.	
Vertical Alignm					7	7							
Roadway Widt	h (m)		8.800										
Embankment					7	7							
Sideslope (_:1)		2.5]						
(Height of Co		: 7.2)											
Guardrail (Y/N))		Yes				91m long each side.						
Approach Roa	ad / Eml	bankme	nt General Rat	ing	7	7							
						Unstre	am End						
Culvert Comp	onent				Last		1	nation of C	ondi	tion			
(Pipe # : 2, Sp		e: Secor	ndary Span)										
Direction	715				S								
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall					Х	X							
Collar					X	Х							

Upstream End										
Culvert Component		Last		Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Wingwalls		Х	Х							
(Shape :)										
Cutoff Wall		Х	X							
Bevel End		Х	8							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	200									
Scour Protection		8	8							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 450)										
Scour/Erosion		8	8							
Beavers (Y/N)	No									
Upstream End General Rating		8	8							
		Brid	dge Cu	Ivert Barrel						
Culvert Component		Last		Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 900, Type: SSP)						
Barrel Last Accessible Date				Not bridge size, not accessible.						
Special Features										
Special Feature										
(Type :)										
Special Feature										
(Туре :)										
Roof		7	7	Viewed from ends.						
Measured Rise (mm)										
Measured At Ring No.										
Sag (mm)										
Percent Sag										
Sidewall		7	7	Viewed from ends.						
Measured Span (mm)				1						
Measured At Ring No.										
Deflection (mm)										
Percent Deflection										
Floor		N	N							
Bulge (mm)				1						
Measured At Ring No.										
Abrasion (Y/N)	No			1						
Circumferential Seams		N	N							
Separation (mm)				1						
Longitudinal Seams		Х	X							
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)										

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Calvert ComponentLastNovExplanation of ConditionConsion Sy Soll (Y/N)XXRise (mm): 900, Type: SSP)Consion Sy Meter (Y/N)ZEROYKConsoin Sy Meter (Y/N)NoYYCanadian Sy Soll (Y/N)NoYYFish Passage AdequacyXXXSteler Passage AdequacyYYYSteler Passage AdequacyNoYYSteler Passage AdequacyNoYYSteler Passage AdequacyNoYYSteler Passage AdequacyNoYYSteler Passage AdequacyNoYYSteler Passage AdequacyYYYSteler Passage AdequacyYYYSteler Passage AdequacyYYYSteler Passage AdequacyYYYSteler Passage AdequacyYYY	Bridge Culvert Barrel									
(Pipe # : 2, Saecondary Span, Location Code: MAIN, Span (mm): or Mise (mm): 900, Type: SSP)Consion [V] Soli (YN)XXCorrosion By Water (YA)VVCorrosion By Water (YA)VVCondmer POS/ZERO/NEGZEROVState Conder POS/ZERO/NEGZEROVFish Passage AdequacyXXSating (YN)NoVBaffe777State plate baffles.T7(Type: WEIR)777Stating (YN)NoVNoVVBarrel General RatingNNCorrel (Concrete, Steel)STEELVCorrel (Concrete, Steel)STEELXCollarXXSour ProtectionNXCollarXXCollarXXSour ProtectionXXMary MallSourXCollarXXSour ProtectionNXMary MallSourXCollarXXSour ProtectionNXMary MallSourSourConcrete, Steel, (Type)88Sour ProtectionNNMary MallSourSourConcrete, Steel, (Type)SourSourConcrete, Steel, (Type)SourSourMary MallNoSourConcrete, Steel, (Type)SourMary MallLasNor	Culvert Component									
Corresion By Solt (YN) Consign By Water (YN) Image Point P	(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n							
Contrasting Water (Y/N)Vertical State St	Coating		X	X						
Camber POS/ZERO/NEGZEROZEROImage: Second se	Corrosion By Soil (Y/N)									
Ponding (YN)NoNoFish Passage AdequacyXXState Passage Adequacy77Gattine77Icing (YN)NoNo77Icing (YN)NoDift (YN)NoDift (YN)NoBarrel General RatingNNoDownstream EndCulvert ComponentIcing (NoCulvert ComponentNoCulvert ComponentNoCulvert ComponentNoCollarNoStell (State)StellCollarXXCollarXXCollarXXStore Jones In JonesNoSour ProtectionNoInvert Above/Below (mm)80Sour Protection88Gruper In Parameteri Concrete, Steen Jacobic Store Internation of ConditionInvert Above/Below (mm)0Sour Protection88Gruper Internation1Culvert Component88Gruper Internation1Culvert Component88Gruper Internation1Culvert Component1Culvert Component1 <td>Corrosion By Water (Y/N)</td> <td></td> <td></td> <td></td> <td></td>	Corrosion By Water (Y/N)									
Fish Passage AdequacyXXXFish Passage Adequacy777(Type : WEIR)777Icing (Y/N)No77Drift (Y/N)No0	Camber POS/ZERO/NEG	ZERO								
Baffle 7 7 Steel plate baffles. (Type : WEIR) 7 7 lcing (Y/N) No Stiling (Y/N) No Drift (Y/N) No Drift (Y/N) No Barrel General Rating N N Culvert Component Last Now Explanation of Condition (Pipe # 2, Span Type: Secondary Span) No Diraction N Ghdres, None) STEEL X X Others, None) STEEL X X Gilar X X X Collar X X X Guing (min) 0 Bevel cut. Invert Above/Below Stream Bel ADOVE Bevel cut. Gyne Coscin 8 8	Ponding (Y/N)	No								
$ \begin{array}{ $	Fish Passage Adequacy		Х	X						
Waterway Adequacy7777leing (YN)No	Baffle		7	7	Steel plate baffles.					
$\begin{array}{ $	(Type : WEIR)									
Siling (Y/N) Drift (Y/N) NoNoIImage: Second seco	Waterway Adequacy		7	7						
Drift (Y/N)NoNoNoBarrel General RatingNoNoNoNo with strain of ConditionCulvert ComponentLast NowExplanation of ConditionCulvert ComponentLast NowExplanation of ConditionCulvert ComponentNoEast NowExplanation of ConditionCulvert Concrete, Steel, STEELN $IVertice method for concrete, Steel, STEELNICollarXXCollarXXColdarXXColdarXXSecond Strain Bed ABOVESoldAbove/Below Strain Bed ABOVESoldAbove/Below Strain Bed ABOVE8Secon/Frotection(Y/N)NoSecon/FrotectionCulvert ComponentLast NowExplanation of ConditionCulvert ComponentCulvert ComponentSecon/Frotection(Y/N)NoSecon/FrotectionSecon/FrotectionSecon/FrotectionSecon/FrotectionSecon/FrotectionSecon/FrotectionSecon/FrotectionSecon/FrotectionSecon/FrotectionSecon/FrotectionSecon/Frotection$	Icing (Y/N)	No								
Barrel General RatingNNNDetectionCulvert ComponentLast NowExplanation of Condition(Pipe #: 2, Span Type: Secondry Span)DirectionNEnd Treatment (Concrete, Steel, STEELOthers, None)XX <td>Silting (Y/N)</td> <td>No</td> <td></td> <td></td> <td></td>	Silting (Y/N)	No								
Barrel General RatingNNNDetectionCulvert ComponentLast NowExplanation of Condition(Pipe #: 2, Span Type: Secondry Span)DirectionNEnd Treatment (Concrete, Steel, STEELOthers, None)XX <td></td> <td>No</td> <td></td> <td></td> <td></td>		No								
Culvert ComponentLastNovExplanation of Condition(Pipe #: 2, Span Type: Second-registrySourceNover Provide Second	Barrel General Rating		N	N						
Culvert ComponentLastNovExplanation of Condition(Pipe #: 2, Span Type: Second-registrySourceNover Provide Second			D	ownstr	ream End					
DirectionNEnd Treatment (Concrete, Steel, Others, None)STEELHeadwallXXKXXCollarXXCollarXXCollarXX(Shape :)XX(Shape :)XXCutoff WallXXBevel End99Heaving (mm)0VInvert Above/Below Stream BedABOVEAbove/Below (mm)800VScour Protection88(Type : RIP RAP) (Type : RIP RAP)88(Avg. Rock Size(mm) : 450)88Beavers (Y/N)NoVDownstream End General Rating88Cutvert ComponentLastNowEavers (Y/N)NoSDirectionSCutvert ComponentLastNoNESEnd Treatment (Concrete, Steel, NONESHeadwallXX </td <td>Culvert Component</td> <td></td> <td></td> <td></td> <td></td>	Culvert Component									
End Treatment (Concrete, Steel, Orders, None)STEELImage: Steel Stee	(Pipe # : 2, Span Type: Second	ary Span)								
Others, NoneIIIHeadwallXXXCollarXXXCollarXXX(Shape :)XXX(Shape :)XXXCutoff WallXXXBevel End99Bevel cut.Heaving (mm)0	Direction		N							
Headwall X X X Collar X X X Collar X X X Wingwalls X X X (Shape:) X X X Cutoff Wall X X X Bevel provide to the total of total of the total of	End Treatment (Concrete, Steel, Others, None)	STEEL								
WingwallsXX(Shape :)XXCutoff WallXXBevel End99Heaving (mm)0	Headwall		Х	X						
(Shape :)Cutoff WallXXBevel End99Heaving (mm)0	Collar		Х	Х						
Cutoff Wall X X X Bevel End 9 9 Bevel cut. Heaving (mm) 0	Wingwalls		Х	Х						
Image: Bevel End Bevel End Heaving (mm)0Image: Second Stream Bed ABOVE999Bevel cut.Invert Above/Below Stream Bed Above/Below (mm)ABOVEImage: Second Stream Bed ABOVEABOVEImage: Second Stream Bed ABOVEImage: Second Stream S										
Heaving (mm)0IIInvert Above/Below Stream BedABOVEIAbove/Below (mm)800IScour Protection88(Type : RIP RAP) (Avg. Rock Size(mm) : 450)88Scour/Erosion88Beavers (Y/N)NoIDownstream End General Ratize88Culvert ComponentLastNovErd Treatment (Concrete, Steel, NONESEnd Treatment (Concrete, Steel, None)XX	Cutoff Wall		X	X						
Invert Above/Below Stream BedABOVEImage: Stream BedABOVEAbove/Below (mm)800Stream BedABOVEScour Protection88(Type : RIP RAP) (Avg. Rock Size(mm) : 450)Stream Bed8Scour/Erosion88Beavers (Y/N)No88Downstream End General Rating88Culvert ComponentLastNowEnd Treatment (Concrete, Steel, None)NONEStream EndDirectionSSEnd Treatment (Concrete, Steel, None)XX	Bevel End		9	9	Bevel cut.					
Above/Below (mm)800Image: Constraint of ConditionScour Protection88(Type : RIP RAP) (Avg. Rock Size(mm) : 450)88Scour/Erosion88Beavers (Y/N)NoImage: Constraint of ConditionDownstream End General Rating88Culvert ComponentLastNowEnd Treatment (Concrete, Steel, None)NONEDirectionSEnd Treatment (Concrete, Steel, None)XXX	Heaving (mm)	0								
Scour Protection 8 8 (Type : RIP RAP) (Avg. Rock Size(mm) : 450)	Invert Above/Below Stream Bed	ABOVE								
(Type : RIP RAP) (Avg. Rock Size(mm) : 450) Scour/Erosion 8 8 Beavers (Y/N) No 8 8 Downstream End General Rating 8 8 Culvert Component Last Now End Treatment (Concrete, Steel, NONE S End Treatment (Concrete, Steel, NONE X X	Above/Below (mm)	800								
(Avg. Rock Size(mm) : 450) 8 8 Scour/Erosion 8 8 Beavers (Y/N) No	Scour Protection		8	8						
Scour/Erosion 8 8 Beavers (Y/N) No Image: Scour Schwarz Schwa	(Type : RIP RAP)									
Beavers (Y/N)NoIIDownstream End General Rating88Upstream EndCulvert ComponentLastNowExplanation of Condition(Pipe # : 3, Span Type: Secondary Span)SIDirectionSIEnd Treatment (Concrete, Steel, NONEIIHeadwallXX	(Avg. Rock Size(mm) : 450)									
Downstream End General Rating 8 8 Upstream End Culvert Component Last Now Explanation of Condition (Pipe # : 3, Span Type: Secondary Span) Direction S Direction S S End Treatment (Concrete, Steel, NONE NONE Headwall X X	Scour/Erosion		8	8						
Culvert Component Last Now Explanation of Condition (Pipe # : 3, Span Type: Secondary Span) Explanation of Condition Direction S End Treatment (Concrete, Steel, NONE NONE Headwall X X	Beavers (Y/N)	No								
Culvert ComponentLastNowExplanation of Condition(Pipe # : 3, Span Type: Secondary Span)SDirectionSEnd Treatment (Concrete, Steel, NONESHeadwallXX	Downstream End General Ratir	ıg	8	8						
(Pipe # : 3, Span Type: Secondary Span) Direction S End Treatment (Concrete, Steel, NONE V Headwall X X				Upstre	am End					
Direction S End Treatment (Concrete, Steel, NONE NONE Others, None) X X	Culvert Component		Last	Now	Explanation of Condition					
End Treatment (Concrete, Steel, NONE NONE Others, None) X X	(Pipe # : 3, Span Type: Second	ary Span)								
Others, None) X X Headwall X X	Direction		S							
	End Treatment (Concrete, Steel, Others, None)	NONE								
Collar X X	Headwall		Х	Х						
	Collar		Х	Х						

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	lary Span)			
Wingwalls		X	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End	-	X	X	Cut square.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			_
Above/Below (mm)	200			
Scour Protection		8	8	
(Type : RIP RAP)				_
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	ocation Code: MAIN,	Span (mm):	, Rise (mm): 1524, Type: SSP)
Barrel Last Accessible Date	25-Jun-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type:)				
Roof		9	9	
Measured Rise (mm)	1524			
Measured At Ring No.	3			
Sag (mm)	0			_
Percent Sag	0			
Sidewall		9	9	
Measured Span (mm)	1524			
Measured At Ring No.	3			
Deflection (mm)	0			
Percent Deflection	0			
Floor		9	9	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	Welded seams.
Separation (mm)	0			
Longitudinal Seams		X	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				1
Longitudinal Stagger (Y/N)				1

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

70610 -1 Bridge Culvert

		Brid	dge Cu	lvert Barrel				
Culvert Component		1		Explanation of Condition				
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN,	Span (r	nm):	, Rise (mm): 1524, Type: SSP)				
Coating		X	X					
Corrosion By Soil (Y/N)								
Corrosion By Water (Y/N)								
Camber POS/ZERO/NEG ZERO								
Ponding (Y/N)	No							
Fish Passage Adequacy		7	7					
Baffle		8	8	Steel split weir at 1.8m o.c.				
(Type : WEIR)								
Waterway Adequacy		7	7					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		9	9					
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 3, Span Type: Second	lary Span)							
Direction		Ν						
End Treatment (Concrete, Steel, Others, None)	NONE							
Headwall		X	X					
Collar		X	X					
Wingwalls		Х	Х					
(Shape :)								
Cutoff Wall		X	X					
Bevel End		9	Х	Cut square.				
Heaving (mm)	0							
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	800							
Scour Protection		8	8					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 450)								
Scour/Erosion		8	8					
Beavers (Y/N)	No							
Downstream End General Ratio	ng	8	8					
		s	Structu	re Usage				
				Explanation of Condition				
Channel (U/S and D/S)								
Alignment		6	6					
Bank Stability		6	6					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	Yes			At both ends.				

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

				Maintenance	Recommend	dations					
Inspector Recommendations		Year	Inspecto	or Comments		Department Comm	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LININ	G										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CU	OFF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/ (%)	Now)	100.0/100.0		Sufficiency Rating (Last/Now) (%)		90.0/88.0 Est. Repl. Yr		2050	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection	ored 1524	Imm SWS	SP installed 2005.		Department Comments						
Maintenance Reviewed By						Date			Estimated Total	0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Owen	Salava			Previous	Previous Assistant's Name					
Next Inspection Date 25-M		r-2014			Previous	vious Inspection Date 24-Aug-2010					
Inspection Cycle (Default) (months) 21							~				
Comment 2											