Bridge Culvert Inspection													
Bridge File Number	00415 -	5 -1 Bridge Culvert Form Type						CUL1					
Year Built	1986					Lot No.			4				
Bridge or Town Name	MIRRO						tor Name		Owen Salava				
Located Over		· / CREEK, 3.65	.2.1.1, W	ATER	CRS-		tor Class		BR CLS A				
	ST						ant Name						
Located On	21:20 C	1 12.875				Assista	nt Class						
Water Body Cl./Year						Inspection Date		19-Sep-2012					
Navigabil. Cl./Year						Data Entry By			Marcia Chavez				
Legal Land Location SW SEC 34 TWP 40 RGE 22 W4l Longitude, Latitude -113:05:59, 52:29:05						Data Entry Date			02-Oct-2012				
						Reviewer Name			John O'Brien				
Road Authority Alberta Transportation (AIT)						Review Date			27-Sep-2012				
Contract Main. Area	CMA20					Dept. F	Dept. Reviewer Name Andrew Smikles			es	S		
Clear Roadway/Skew		deg. (LHF)				Dept. Review Date		16-Oct-2012					
AADT/Year	1,460 / 2				Follow-Up By								
Road Classification	RAU-21	1.8-110											
Detour Length (km)	15												
Bridge Culvert Inform Number of Culverts		 1											
Pipe # Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab	Shape		
. тро ::					.,,,,					Thickness	Спаро		
1 MAIN		7000	5300		RPE		54.3		152X51	5.0	ELLIPSE		
Special Features													
Special Features Com	ment												
				Ut	ilities (L	ocated	at)						
Utility Attachments				<u> </u>) Solution	ooutou	ut)						
Telephone West	r/w.					Gas							
						Municipal							
							Problem (Y/N) No						
Remarks	•												
			A	pproac	ch Roac	l / Emb	ankment						
					Now	Explanation of Condition							
Horizontal Alignment			5	5	Horizontal curve & sag crest, limited sight distance, both directions. Field approach at NE.								
Vertical Alignment			5	5	No passing both directions.								
Roadway Width (m) 10.700													
Embankment				7	7	Crack	in ACP @	both s	sides - sealed.				
Sideslope (:1)		3.0				Crack in ACP @ both sides - sealed.							
(Height of Cover(m)	: 1.5)												
Guardrail (Y/N)		Yes				Minor damage on guardrail and posts on SB lane (W.si					/.side).		
Approach Road / Em	bankmer	nt General Rat	ing	5	5								
					Upstre	am End							
Culvert Component				Last			ation of	Condi	tion				
Direction				W	<u>'</u>	•							
End Treatment (Concr Others, None)	rete, Stee	, CONCRETE											
Headwall					7	Patched.							
Collar			6	6	1mm wide transverse cracks.								
Wingwalls			X	X									
(Shape:)					1								
Cutoff Wall				N	N								

			Heatra	on End				
Culvert Component		Last		eam End Explanation of Condition				
Culvert Component Bevel End		8	Now 8	Inspected what is visible.				
Heaving (mm)	0	0	0	inspected what is visible.				
	-							
Above/Below (mm) 1000		5	5					
Scour Protection		3	3					
(Type : RIP RAP) (Avg. Rock Size(mm) : 300)								
Scour/Erosion		5	5	Small erosion gully at SW & NW ditch leading into river.				
Scour Erosion		3	3	Small erosion gully at SVV & NVV diton leading into river.				
Beavers (Y/N)	No							
Upstream End General Rating	I.	5	5					
		Bri	dge <u>Cu</u>	lvert Barrel				
Culvert Component				Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp			·				
Barrel Last Accessible Date	08-Feb-2008			Not accessible due to deep water. Viewed from both ends. Shape appears good.				
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type:)								
Roof		N	N	(Not able to measure rise due to ice on floor. 08Feb2008).				
Measured Rise (mm)				(**************************************				
Measured At Ring No.								
Sag (mm)								
Percent Sag								
Sidewall		N	N	(Inward. 08Feb2008).				
Measured Span (mm)	6970			(**************************************				
Measured At Ring No.	6							
Deflection (mm)	30							
Percent Deflection	1							
Floor		N	N					
Bulge (mm)	0							
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams		N	N					
Separation (mm)	0		1					
Longitudinal Seams		N	N	Not staggered @ 2 o'clock & 10 o'clock seams.				
Total No. of Cracked Rings	0		1 1					
Total No. of Rings with Two Cracked Seams	0							
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)	Yes							
Longitudinal Stagger (Y/N)	No							
Coating			6	White stains on sidewalls and roof. Localized (spot) corrosion @ 1				
Corrosion By Soil (Y/N)	Yes			o'clock near West end.				
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	ZERO							

00415 -1 Bridge Culvert

Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 7000	, Rise (mm): 5300, Type: RPE)				
Ponding (Y/N)	No							
Fish Passage Adequacy		8	8					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		7	7					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		N	N	Previous GR was 7 from 08Feb2008.				
		D	ownstr	eam End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		E						
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall		6	6	Large chip in headwall. Honeycombing (photo).				
Collar		6	6	Minor cracks.				
Wingwalls		Х	X					
(Shape:)								
Cutoff Wall		N	N					
Bevel End		6	6	Inspected what was visible.				
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	1000							
Scour Protection		5	5					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 300)		I	1					
Scour/Erosion		5	5					
Beavers (Y/N)	No							
Downstream End General Ratio	ng	5	5					
				re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		8	8					
Bank Stability		7	7					
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 :								
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		8	8					

		Ma	intenance Recommer	ndations					
Inspector Recommendations	Year	Inspector Comments		Department Comm	ents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	3								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 55.6/5	55.6/55.6 Sufficiency Rating (Last/		59.8/59.9	Est. Repl. Yr	2037 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 Dave Lam Previou			s Assistant's Name						
Next Inspection Date	19-Jun-2014		Previous	s Inspection Date	Inspection Date 09-Nov-2010				
Inspection Cycle (Default) (months)	21		· · · · · · · · · · · · · · · · · · ·						
Comment									