Bridge Culvert Inspection													
Bridge File Number 78553 -1 Bridge Culvert							Form Type			CUL1			
Year Built		1976					Lot No			4			
Bridge or Town	Name	ELKWA	ATER				Inspec	tor Name		Tom Carey			
Located Over			RDER TRIBUTA (, 28.6.1, WATE			λY	Inspector Class			BR CLS A			
Located On 515:02 C							Assistant Name						
Water Body Cl./		313.02	01 12.003					ant Class					
Navigabil. Cl./Ye								tion Date		13-Mar-2012			
Legal Land Loca		SE SE	C 2 TWP 10 RG	E 2 \//4N/	<u> </u>			ntry By		Erin Roberts			
Longitude, Latitu			0:03, 49:47:10	L Z VV-IV				ntry Date		08-Apr-2012			
			Transportation	(AIT)			Reviev	ver Name	!	Garry Roberts			
Road Authority Alberta Contract Main. Area CMA23			•		Review Date			24-Mar-2012					
Clear Roadway/		9.1 /	,						ewer Name Tim Davies				
AADT/Year		80 / 20	11 (Δ)		Dept. Review Date		17-Apr-2012						
Road Classificat		RCU-2				Follow-Up By							
Detour Length (I	km)	3											
Bridge Culvert Information													
Number of Culve	erts		1										
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN		-	1524		MP		20.1		68X13		ROUND	
Special Feature					1	120							
Special Features Comment													
Utilities (Located at)													
Utility Attachments  Tallarhana													
	Telephone 2 wires North						Gas	nal					
Power Others	3 wires North.						Municipal Problem (Y/N) No						
Remarks							FIODIE	III (1/IN)	INO				
Remarks				Δι	nnroad	ch Road	l / Emb	ankment					
					Last	Now	Explanation of Condition						
Horizontal Alignment				9	9	1.1km East of file 78554.							
Vertical Alignment			9	9									
Roadway Width	(m)		11.600										
Embankment					N	8							
Sideslope (:	:1)		4.0										
(Height of Cover(m) : <b>0.5</b> )													
Guardrail (Y/N)		No											
Approach Road / Embankmer		ent General Rating		9	9								
						Upstre	om End	1					
Culvert Compo	nent				Last	Now			Condi	tion			
			S	11011	Explanation of Condition South end								
End Treatment (Concrete, Steel, Others, None)						0.10							
Headwall			Х	Х									
Collar			Х	X									
Wingwalls					Х	Х							
(Shape: )													
Cutoff Wall				X	X								

				eam End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	450	N	N	Submerged and ice covered.
Heaving (mm)	150			
Invert Above/Below Stream Bed				
Above/Below (mm)	300			
Scour Protection		N	7	
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		6	N	
		Brid	dae Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S			, Rise (mm): 1524, Type: MP)
Barrel Last Accessible Date	12-Mar-1992			
Special Features				
Special Feature				Average 1.0m deep water in pipe unable to enter. Shape is adequate
(Type:)				- viewed from ends.
Special Feature				
(Type:)				
Roof		N	N	Roof is bent at South end, probably by grass cutting.
Measured Rise (mm)		IN	111	Bent in 200mm at roof at this location.
Measured At Ring No.				Est.
Sag (mm)	75			
Percent Sag	5			
Sidewall	<u> </u>	N	N	Est.
Measured Span (mm)		IN	IN	Est.
Measured At Ring No.  Deflection (mm)	75			
Percent Deflection	5			-
	<u> </u> 5	NI.	l NI	(11-4-500
Floor		N	N	(Up to 500mm silt.)
Bulge (mm)				-
Measured At Ring No.				-
Abrasion (Y/N)				
Circumferential Seams	I	N	N	(((Dirt infiltration)) 02/07/08)
Separation (mm)				
Longitudinal Seams	I	X	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)				
Coating		N	N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			

		Bric	lge Cu	ulvert Barrel								
Culvert Component		Last	Now	Explanation of Condition								
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 1524, Type: MP)								
Fish Passage Adequacy		Х	Х									
Baffle		Х	Х									
(Type:)												
Waterway Adequacy		N	5	(Up to 500 mm silt.)								
Icing (Y/N)	No											
Silting (Y/N)	Yes											
Drift (Y/N)	No											
Barrel General Rating		N	N									
Downstream End												
Culvert Component		Last	Now	Explanation of Condition								
Direction		N		North end								
End Treatment (Concrete, Steel, Others, None)	STEEL											
Headwall		Х	X									
Collar		X	X									
Wingwalls		Х	Х									
(Shape: )												
Cutoff Wall		Х	Х									
Bevel End		N	N	Submerged.								
Heaving (mm)												
Invert Above/Below Stream Bed BELOW												
Above/Below (mm)	200											
Scour Protection			7									
(Type : <b>NATURAL</b> )												
(Avg. Rock Size(mm) : )												
Scour/Erosion		N	7									
Beavers (Y/N)	No											
Downstream End General Ratin	ng	6	N									
		S	tructu	re Usage								
		Last	Now	Explanation of Condition								
Channel (U/S and D/S)												
Alignment			5	Enters at 45° angle.								
Bank Stability			7									
HWM (m below Top of Culvert)				HWM not visable.								
Drift (Y/N) No												
Channel Bottom Degrading/Aggrading												
Beavers (Y/N) No												
(Fish Compensation Measure 1 :												
(Fish Compensation Measure 2 :	NONE)											
Channel General Rating		7	5									

			Mainten	ance Recomme	ndations					
Inspector Recommendations	Year	Inspecto	r Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
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	5.6	Sufficiency Rating (Last/Now) (%)		72.1/56.8	Est. Repl. Yr	2020	2020 Maint. Re		No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		l l	Estimated Tota	I 0	
Proposed Long-Term Strategy									'	
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Tim Davies			Previou	s Assistant's Name					
Next Inspection Date	13-Jun-2015			Previou	s Inspection Date	12-Mar-200	9			
Inspection Cycle (Default) (months)	39									
Comment										