Bridge Culvert Inspection													
Bridge File Number	77520 -	1 Bridge Culve	ert			Form T	уре		CUL1				
Year Built	1972	1972				Lot No.			1				
Bridge or Town Nam	e ELKWA	TER			Inspector Name		Tom Carey						
Located Over 2ND ORDER TRIBUTARY TO N					٩Y	Inspector Class			BR CLS A				
Located On	515.02	C1 16 874				Assistant Name							
Water Body CL/Year	010.02					Assistant Class							
Navigabil CL/Year						Inspect	ion Date		12-Mar-2012				
Legal Land Location				Л		Data Entry By			Erin Roberts				
	110.06			VI		Data Entry Date			08-Apr-2012				
Bood Authority	Alborto	Tropoportation	(///_			Reviewer Name			Garry Roberts				
Contract Main Area		Transportation	I (AIT)			Review Date		24-Mar-2012					
Clear Boodwoy/Ska						Dept. Reviewer Name		Tim Davies					
	× 10.57	11 (A)				Dept. F	Dept. Review Date		17-Apr-2012				
Road Classification	BCU-20	18-110				Follow	Uр Ву						
Detour Length (km)	22	00-110				-							
Bridge Culvert Info	mation					1							
Number of Culverts	mation	1											
Pipe # Barro	el	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab	Shape		
1 MAII	1	1830	1120		FP		32.1		68X13	3.5.3.5.3.5	ARCH		
Special Features		1	02.1										
Special Features Co	mment												
				Uti	lities (L	ocated	at)						
Utility Attachments						0							
Telephone Sou	ith side.			Gas									
Power 1 w	ire, North s	side.			Broklem (V/N) No								
Others						Problei	n (Y/N)	INO					
Remarks			٨	nnroad	h Poar	l/Emb	ankmont						
			~	Last	Now	Fxplan	ation of	Condi	tion				
Horizontal Alignment					9	Is wrong on map- 150.7km West of BF 74788.							
Vertical Alignment			6	6	Drops to East, rises to West.								
Roadway Width (m) 10.500													
Embankment					7								
Sideslope (1) 30													
(Height of Cover(m) : 1 2)						-							
Guardrail (Y/N) No													
Approach Road / Embankment General Rating				6	6								
					Unstre	am End							
Culvert Componen				Last	Now	Explan	ation of	Condit	tion				
Direction			S		South								
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall				X	Х								
Collar			X	Х									
Wingwalls			X	x									
(Shape:)			~	~									
Cutoff Wall													

Alberta Transportation

			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		N	7	Minor rust.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW			-						
Above/Below (mm)	120									
Scour Protection		N	7	_						
(Type : RIP RAP)				-						
(Avg. Rock Size(mm) : 250)										
Scour/Erosion		N	7							
Beavers (Y/N)	No									
Upstream End General Rating			7							
		Bric	lae Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1830	, Rise (mm): 1120, Type: FP)						
Barrel Last Accessible Date	12-Mar-2012									
Special Features		1	1							
Special Feature				-						
(Type:)			1	4						
Special Feature				-						
(Туре :)			_							
Roof		N	3	Floor bulge taken out of sag calculation.						
Measured Rise (mm)	900									
Measured At Ring No.	3			_						
Sag (mm)	120			_						
Percent Sag	10									
Sidewall		N	3	Lockseam split at section 3 at East. 50mm gap at split.						
Measured Span (mm)	1980			_						
Measured At Ring No.	3			_						
Deflection (mm)	150			_						
Percent Deflection	8									
Floor		N	4	Partially cracked at ring 3 at at middle at welded longitudinal joint.						
Bulge (mm)	100			-						
Measured At Ring No.	3			-						
Abrasion (Y/N)	Yes									
Circumferential Seams		N	3	Split lock seam at section 3.						
Separation (mm)	150									
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)										
Longitudinal Stagger (Y/N)										
Coating		N	4	Minor pitted rust on floor.						
Corrosion By Soil (Y/N)										
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	ZERO									
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): 1830	, Rise (mm): 1120, Type: FP)						
Fish Passage Adequacy			X							
Baffle			Х							
(Туре :)										
Waterway Adequacy		N	5	[(Flowed full in '94) 2002/05/30]						
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating			3							
	1	D	ownstr	eam End						
Culvert Component		Last Now		Explanation of Condition						
Direction	1	Ν		North						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	X							
Collar			X							
Wingwalls			X							
(Shape:)										
Cutoff Wall		X	X							
Bevel End		N	8							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	150									
Scour Protection		N	8							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 250)		1	-							
Scour/Erosion		N	8	Scour repaired.						
Beavers (Y/N)	No									
Downstream End General Rating		4	8							
		s	Structur	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			4	Corners in at 90 degree angle from SW. (Ran full '94 U/S.) 2002/05/30						
Bank Stability			7							
HWM (m below Top of Culvert) 0.4				Grass at fence at South 400mm higher than roof.						
Drift (Y/N)	No									
Channel Bottom Degrading/Aggrading										
Beavers (Y/N) No										
(Fish Compensation Measure 1 : NONE)										
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating			4							

Alberta Transportation

77520 -1 Bridge Culvert

					Maintenance Re	ecommend	ations						
Inspector Recommendations			Year	Inspecto	or Comments		Department Com		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS													
PLACE ADDITION	NAL RIP RAP												
REMOVE DRIFT	ACCUMULATION												
INSTALL CONCR	ETE/STEEL LINING												
INSTALL STRUTS	3	2	2013	Conside	r struts at section 3.								
INSTALL CONCR	ETE COLLAR/CUTC	DFF											
REPAIR SEAMS													
OTHER ACTION		2	2013	Install re section 3	verse coupler at split lock se 3.	eam at							
OTHER ACTION		2	2013	Correct I	location on BF map 1.								
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/Now) (%)			44.4/33.	3	Sufficiency Rating (Last/ (%)	Now) 6	3.5/50.7	Est.	. Repl. Yr	2015	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection Legal land should be changed from in section 4 to section 5 - is West of BF 74788.						Department Comments							
Maintenance Reviewed By						Date				Estimated Tota	0		
Proposed Long-T	erm Strategy												
On 3-Year Progra	m (Y/N)												
Proposed Action													
Previous Inspector's Name Tim Day			im Davies Previous A					Assistant's Name					
Next Inspection Date 12-Jur			2015		Previous I	Inspection Date 12-Mar-2009							
Inspection Cycle (Default) (months) 39		39											
Comment													