Bridge Culvert Inspection														
Bridge File Number 78642 -1		2 -1 Bridge Culvert				Form Type			CUL1					
Year Built 1976										4				
Bridge or Town	Name	PURPLE	SPRIN				Inspect	Inspector Name		Tom Carey				
Located Over		TID - IRF	RIGATION C,	RS-IC		Inspector Class			BR CLS A					
Located On		3:12 C1 ⁻	12.654				Assista	nt Name						
Water Body Cl.	/Year						Assistant Class							
Navigabil. CI./Y	'ear						Inspection Date			12-Nov-2011				
Legal Land Loc	ation	SW SEC	15 TWP 10 R	GE 15 W	/4M		Data Entry By			Alyssa Boynton				
Longitude, Latit	tude	-111:57:2	28, 49:48:54	· · · · ·			Data Entry Date		07-Dec-2011					
Road Authority		Alberta T	ransportation	(AIT)			Reviewer Name			Garry Roberts				
Contract Main. Area CMA24							Review Date		21-Nov-2011					
Clear Roadway/Skew 13 /					Dept. Reviewer Name		Alvin Gale							
AADT/Year 3,650 / 2010			010 (A)				Dept. Review Date		12-Jan-2012					
Road Classifica	ation	RAU-213	3-130				Follow-Up By							
Detour Length	(km)	5												
Bridge Culvert Information														
Number of Culv	/erts	1		/		_								
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре	Length			Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	1	829	1118		FP		54.9		68X13	2.8	ARCH		
Special Feature	es													
Special Feature	es Comr	ment												
					+;	litios (l	ocated	at)						
Litility Attachme	ents				011	nues (L	ocaleu	aty						
Telephone							Gas							
Power	Multin	ole lines north r/w 25 m from c L - also F & W						Municipal						
Others	Fibre	optics at North R/W						Problem (Y/N) No						
Remarks							1 100101		110					
	Approach Road / Embankment													
						Now	Explan	ation of	Condit	ion				
Horizontal Aligr	nment				9	9								
Vertical Alignment				9	9									
Roadway Width	Roadway Width (m)		13.400											
Embankment	Embankment				9	9	Level over culvert.							
Sideslope (_:1)		6.0	6.0			Berm at South end							
(Height of Co	ver(m) :	1.8)												
Guardrail (Y/N)			No											
Approach Roa	d / Emb	bankmen	t General Rat	ing	9	9								
						Upstre	am End							
Culvert Compo	onent				Last	Now	Explan	ation of	Condit	ion				
Direction			S		South	end.								
End Treatment Others, None)	(Concre	ete, Steel,	CONCRETE											
Headwall					7	7								
Collar			7	7										
Wingwalls					X X									
(Shape :)							1							
Cutoff Wall					N	7								

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	1	Upstream End							
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		X	X						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	400								
Scour Protection		8	8						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 250)									
Scour/Erosion			8						
Beavers (Y/N) No									
Upstream End General Rating			7						
		Brid	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1829	, Rise (mm): 1118, Type: FP)					
Barrel Last Accessible Date	12-Nov-2011								
Special Features		1	1						
Special Feature									
(Type:)		1	1	-					
Special Feature				-					
(Туре :)		1							
Roof		7	5						
Measured Rise (mm)	1060								
Measured At Ring No.	1								
Sag (mm)	58								
Percent Sag	5								
Sidewall		7	5						
Measured Span (mm)	1860								
Measured At Ring No.	1								
Deflection (mm)	31								
Percent Deflection	1								
Floor		N	6	Average 50mm deep water					
Bulge (mm)	0			Scaling corrosion.					
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		N	N						
Separation (mm)	30								
Longitudinal Seams		7	7	Riveted plate					
Total No. of Cracked Rings	0		-						
Total No. of Rings with Two Cracked Seams	0								
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)				1					
Longitudinal Stagger (Y/N)				1					
Coating		4 4		Surface corrosion at top of pipe ends					
Corrosion By Soil (Y/N)				Scaling corrosion at floor.					
Corrosion By Water (Y/N)	Yes			Scaling with pitting at sidewalls.					
Camber POS/ZERO/NEG	NEG								
Ponding (V/N)	No								
Ponding (Y/N)	INO								

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Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Sp	an (mm): 1829	, Rise (mm): 1118, Type: FP)					
Fish Passage Adequacy		X	X						
Baffle		X	X						
(Туре :)			-						
Waterway Adequacy			5						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating			5						
Downstream End									
Culvert Component		Last	Now	Explanation of Condition					
Direction		N		North end.					
End Treatment (Concrete, Steel, Others, None)	NONE								
Headwall	Headwall								
Collar		X	Х						
Wingwalls		Х	X						
(Shape :)			1						
Cutoff Wall		N	X						
Bevel End	Bevel End								
Heaving (mm)									
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	100								
Scour Protection		8	8						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 250)			1						
Scour/Erosion		8	8						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	8	8						
		S	structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			9	Drop structure in upstream 20m D/S and 2m at U/S					
Bank Stability			9						
HWM (m below Top of Culvert)	0.3								
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			9						

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector 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/No. (%)	ow) 6	59.6/58.5 Est. Repl. Yr 2020		2020	Maint. Reqd. (Y/N)		No	
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date		E	Estimated Total	0		
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Tom 0		om Carey P			Assistant's Name						
Next Inspection Date 12-Au		I2-Aug-2013			Previous Inspection Date 25-Jun-2010						
Inspection Cycle (Default) (months) 21											
Comment											