Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Inspection														
Bridge File Nun	nber 7	er 76906 -1 Bridge Culvert				Form Type			CUL1					
Year Built/Lined 1969/1990							Lot No.		2					
Bridge or Town	Name	OWEN					Inspect	or Name	Russel Vander	rschaaf				
Located Over	Į	FINDLE	Y CREEK, 8.1	0.58.31.6	,		Inspect	or Class	BR CLS B					
Logated Op			1 6 967				Assista	nt Name						
Water Body Cl	/Vear	40.34 C	10.007				Assista	nt Class						
Navigabil CL/X						ion Date	22-Aug-2012							
Legal Land Loc	2 14 TWP 57 R					ntry By	Theresa Lacusta							
Longitude, Latitude -118:46:27 53			·27 53·55·29				Data E	ntry Date	25-Sep-2012					
Road Authority Alberta Transpo			Transportation	sportation (AIT)				er Name						
Contract Main. Area CMA05			ranoportation	(/ 11 /)			Review Date		24-Sep-2012					
Clear Roadway/Skew 8.2 /								Reviewer Name	David Morrison					
AADT/Year 1.590 / 2		2011 (A)				Dept. Review Date		18-Dec-2012						
Road Classifica	ation I	RAU-20)9-110				Follow-Up By							
Detour Length	(km) 6	60												
Bridge Culvert Information														
Number of Culverts 1														
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape			
2	MAIN FL LINER	ULL	-	2000		MP		57.3	68X13	3.5	ROUND			
Special Feature	es									·				
Special Feature	es Comm	nent												
					Uti	lities (L		at)						
	S r/m						Coo							
Power	3 1/W													
Others	4 W 0/1						Proble	m (Y/N) No	No					
Remarks														
				A	pproad	ch Road	d / Emba	ankment						
					Last	Now	Explanation of Condition							
Horizontal Alignment				6			No passing either direction.							
Vertical Alignment				5	5	Steep grade to the east estimated 6%.								
Roadway Width (m) 8			8.000											
Embankment					8	8								
Sideslope (_:1)		3.0											
(Height of Co	ver(m) :	6)												
Guardrail (Y/N)			Yes				NW 7 broken posts + E 8 broken.							
Approach Roa	d / Emba	ankme	nt General Rat	ing	5	5								
						Upstre	am End							
Culvert Compo	onent				Last	Now	Explan	ation of Condi	tion					
Direction			N		-									
End Treatment Others, None)	(Concret	te, Stee		E										
Headwall					6	6								
Collar					6	6								
Wingwalls					X	X								
(Shape :)														
Cutoff Wall					X	Х								

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	Upstream End								
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		7	4	Covered in drift 50mm-200mm diaphoto					
Heaving (mm)									
Invert Above/Below Stream Bed	BELOW			_					
Above/Below (mm)	50								
Scour Protection			4	Fill settled on sides 700 wide, 400 deep, 2m long.					
(Type : RIP RAP)				_					
(Avg. Rock Size(mm) : 200)									
Scour/Erosion			4	Fill settled on sides, 700 wide, 400 deep, 2m long.					
Beavers (Y/N)	No								
Upstream End General Rating			4						
		Brid	d <u>ge Cu</u>	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (r	nm):	, Rise (mm): 2000, Type: MP)					
Barrel Last Accessible Date	22-Aug-2012								
Special Features									
Special Feature				-					
(Type:)				4					
Special Feature				_					
(Type:)									
Roof		7	7	17m from u/s end					
Measured Rise (mm)	2044			holes w/rebar expod at 2:00 and 10:00.					
Measured At Ring No.									
Sag (mm)	44			_					
Percent Sag	4								
Sidewall		7	7	20m approx from u/s end.					
Measured Span (mm)	1932			4 dents at 8:00 near centerline.					
Measured At Ring No.				Inward deflection.					
Deflection (mm)	68								
Percent Deflection	4								
Floor		7	7						
Bulge (mm)									
Measured At Ring No.									
Abrasion (Y/N)	Yes			1					
Circumferential Seams		7	7						
Separation (mm)				1					
Longitudinal Seams		X	X						
Total No. of Cracked Rings			~						
Total No. of Rings with Two Cracked Seams				1					
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)									
Longitudinal Stagger (V/N)									
		G	e	Minor superficial rust on floor 1.2m wide					
	No	6	Ö	winor superiiciai rust on noor 1.3m wide.					
Corresion By Soli (Y/N)				-					
	765								
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								

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	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Location Code: MAIN,			nm):	, Rise (mm): 2000, Type: MP)						
Fish Passage Adequacy		4	4	Outlet above streambed.						
Baffle			Х							
(Туре :)										
Waterway Adequacy		6	6							
Icing (Y/N)	No									
Silting (Y/N)	No			200-300mm dia u/s end bevel.						
Drift (Y/N)	Drift (Y/N) Yes									
Barrel General Rating			7							
		D	ownst	ream End						
Culvert Component		Last	Now	Explanation of Condition						
Direction	1	S		-						
End Treatment (Concrete, Steel, Others, None)	CONCRETE		1							
Headwall		7	7							
Collar			7							
Wingwalls		X	X							
(Shape :)										
Cutoff Wall		N	N	Formed W/H-pile. May 24, 2007						
Bevel End		7	7							
Heaving (mm)										
Invert Above/Below Stream Bed	ABOVE			_						
Above/Below (mm)	1000									
Scour Protection		7	7	Braced with H-pile frame.						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 500)										
Scour/Erosion		7	7							
Beavers (Y/N)	No									
Downstream End General Ration	ng	7	7							
			Now	re Usage						
Channel (II/S and D/S)		Lasi	NOW							
Alignment		8	8							
Bank Stability			7	Steep bank d/s.						
HWM (m below Top of Culvert)	4.0			(HWM LATH ON U/S SIDESLOPE (98/06/21))						
Drift (Y/N)	No									
Channel Bottom Degrading/Aggrading	Channel Bottom DEGRADING Degrading/Aggrading									
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		8	8							

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Maintenance Recommendations											
Inspector Recommendations		/ear	Inspector Comments		Department Comments				Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION	2	2013	from u/s bevel								
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTO	FF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow) 7	7.8/77.3	8 Sufficiency Rating (Last/No (%)	Rating (Last/Now)		Est. Repl. Yr	st. Repl. Yr 2019		qd. (Y/N)	Yes	
Special Comments for Next Inspection					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	Russel V	ussel Vanderschaaf Previous			Assistant's Name						
Next Inspection Date 22-M		22-May-2014 Prev			us Inspection Date 17-Nov-2010						
Inspection Cycle (Default) (months) 21											
Comment											