				Br <u>id</u>	ge Cul <u>v</u>	ert Insp	ection						
Bridge File Num							rm Type		CUL1				
Year Built 1988					Lot No.			3					
Bridge or Town	Name	SUNDR	E				Inspector Name		Owen Salava				
Located Over		SMITH	CREEK, 3.98.2	2.2, WATERCR	S-ST	Inspec	tor Class		BR CLS A				
Located On			C1 25.074				ant Name						
Water Body Cl./	/Year					Assista	ant Class						
Navigabil. Cl./Year					Inspection Dat				27-Oct-2011				
			2 TWP 33 R	GE 7 W5M		Data Entry By			Marcia Chavez				
		:51, 51:47:42				29-Nov-2011							
		Transportation	Reviewer Name			John O'Brien							
Contract Main. Area CMA29			·			Review Date			14-Nov-2011				
Clear Roadway/Skew 12.3 / -41 de			1 deg. (LHF)	deg. (LHF)				Name					
AADT/Year 470 / 2010									02-Dec-2011				
Road Classifica	ition	RCU-21				· ·							
Detour Length ((km)	5											
Bridge Culvert		nation											
Number of Culv			1										
Pipe #	Barrel		Span	Rise (or Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	3658	SP		53.7		152X51	3.0	ROUND		
Special Feature	es												
Special Feature	es Comi	ment											
				U	tilities (Located	at)						
Utility Attachme													
Telephone		ditch.				Gas							
Power	1 wire	e south fe	nce line.										
Others						Problem (Y/N) No							
Remarks													
				Last					tion				
Horizontal Alignment			4	4									
· · · · · · · · · · · · · · · · · · ·				7	7								
Vertical Alignment Roadway Width (m)			9.500			12.3m road to West. 9.5m rc			5m road to Eas	m road to East.			
Embankment			4	4 4		Cracks in roadway over pipe - photo. North embankment eroding							
Sideslope (:1)		3.0		т	from ro	adway ru	runoff, under guardrail - photo.					
(Height of Co	- ,	2.7)	0.0										
Guardrail (Y/N))	Yes			Missin	eviewer Name John O'Brien eview Date 14-Nov-2011 ept. Review Date 02-Dec-2011 ollow-Up By State 02-Dec-2011 bilow-Up By State 02-Dec-2011 control bilow-Up By State 12 control bilow						
Approach Roa	d / Eml	bankmer	nt General Rat	ting 4	4								
					Upstre	am End							
Culvert Component			Last		Explanation of Condition								
Direction			S										
End Treatment (Concrete, Steel, CONCRETE Others, None)			E										
Headwall			8	8									
Collar				8	8	Minor	Minor cracks.						
					1								
				X	X								
Wingwalls (Shape :)				X	X								

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			Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
Bevel End	1	8	8	_				
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm) 600								
Scour Protection		8	8					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 350)								
Scour/Erosion		8	8					
Beavers (Y/N)	No							
Upstream End General Rating			8					
		Briz	dao Cu	lvert Barrel				
Culvert Component		Last		Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN_Sna	-		, Rise (mm): 3658, Type: SP)				
Barrel Last Accessible Date	27-Oct-2011		. <u>.</u>					
Dairei Last Accessible Date	27-001-2011							
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type :)			_					
Roof		7	7	Estimate roof.				
Measured Rise (mm)								
Measured At Ring No.				-				
Sag (mm)	42							
Percent Sag	1							
Sidewall	1	7	7					
	2700	1	7					
Measured Span (mm)	3700							
Measured At Ring No.	11			-				
Deflection (mm)	42			-				
Percent Deflection	1							
Floor	1	N	N	Floor covered in avg 200mm deep silt, deeper in sag.				
Bulge (mm)				-				
Measured At Ring No.				-				
Abrasion (Y/N)			_					
Circumferential Seams	1	8	8	-				
Separation (mm)	0		_					
Longitudinal Seams		8	8					
Total No. of Cracked Rings	0							
Total No. of Rings with Two Cracked Seams								
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)	Yes							
Longitudinal Stagger (Y/N)	Yes							
Coating		5	5	Storage stains superficial corrosion @ white rust storage stain areas.				
Corrosion By Soil (Y/N)	Yes	5 5		Corrosion spots showing through rings 10 & 11 in roof. No				
Corrosion By Water (Y/N)	Yes			perforations yet.				
Camber POS/ZERO/NEG	NEG							
Ponding (Y/N)	No							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm):	, Rise (mm): 3658, Type: SP)					
Fish Passage Adequacy		8	8						
Baffle		Х	Х						
(Туре :)									
Waterway Adequacy		4	4	Based on HWM comment. Scour hole D/S.					
Icing (Y/N)	No								
Silting (Y/N)	Yes								
Drift (Y/N)	No								
Barrel General Rating		7	7						
				ream End					
Culvert Component		1	Now	Explanation of Condition					
Direction End Treatment (Concrete, Steel,	STEEL	N		-					
Others, None)			1						
Headwall		X	X						
Collar		X	X						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall		X	Х						
Bevel End			6	Pushed in 200mm @ NW. Bevel projects from fill 300mm.					
Heaving (mm)	200								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	500								
Scour Protection		3	3						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 350)									
Scour/Erosion		3	3	15m x 15m scour hole into embankment @ NE - photos.					
Beavers (Y/N)	No								
Downstream End General Ration	ng	3	3						
		S	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)	1								
Alignment			5						
Bank Stability			4	Cut banks D/S & sloughing @ NE. 2 channel @ U/S, 1 from East 90 degree. Main channel @ 90 & 1 from West 90 degree to East, water was over road in 1991.					
HWM (m below Top of Culvert)	0.6			(@ this inspection. 15/Mar/2006)					
Drift (Y/N)	No			(HWM 6.3m in 1991) HWM not visible this inspection.					
Channel Bottom DEGRADING Degrading/Aggrading									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			4						

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Maintenance Recommendations												
Inspector Recommendations		Year	Inspecto	or Comments		Department Comm		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP		2012	Est. 30m	n3 @ D/S.								
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTOFF												
REPAIR SEAMS												
OTHER ACTION		2012	Install pr end.	oper termination end @ SE	guardrail							
OTHER ACTION		2012	Seal cra	cks in ACP over pipe.								
OTHER ACTION		2012	Repair North embankment erosion under guardrail.									
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	77.8/77.	.8 Sufficiency Rating (Last/ (%)		low) t	53.4/53.4	Est. Repl. Yr	2042	Maint. Red	qd. (Y/N)	Yes	
Special Comments for Next Inspection				Department Comments								
Maintenance Reviewed By						Date	e Estimated Total 0					
Proposed Long-Term Strategy	2006.0	7.28 With	n normal r	maintenance culvert should b	be good un	til 2050. Monitor d/s	scour holes.					
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Dave L	am			Previous /	Assistant's Name						
Next Inspection Date 27		27-Jan-2015 P				bus Inspection Date 24-Sep-2009						
Inspection Cycle (Default) (months)	39											
Comment												