					Bridg	e Culve	ert Insp	ection							
Bridge File Num	ber	80694 -	-1 Bridge Culve	rt			Form Type		CUL1						
Year Built 1984 Bridge or Town Name GRANDE F						Lot No.		2							
Bridge or Town I							Inspector Name			Russel Vanderschaaf					
Located Over			RDER TRIBUT/ , 8.10.58.21.2.1				Inspector Class		BR CLS B						
Located On			0.10.38.21.2.1 C1 25.844	, WATER	CN3-C	ASSISI		istant Name							
Water Body Cl./		40.30 C	71 25.044				Assistant Class								
Navigabil. Cl./Ye							Inspection Date		23-Aug-2012						
		NIM SE	C 8 TWD 63 D	2E 4 W/6N			Data E	ntry By		Theresa Lacusta					
				3L 4 VVOI	VI			ntry Date		26-Sep-2012					
Contract Main. Area CMA05 Clear Roadway/Skew 10.2 / 54 d AADT/Year 1,220 / 20 Road Classification RAU-211.8 Detour Length (km) 300 Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Sp 1 MAIN - Special Features SH Special Features Comment			(AIT)				ver Name		Eric Carcoux						
		Alberta Transportation (AIT)				Review Date		24-Sep-2012							
Longitude, Latitude Road Authority Contract Main. Area CMA05 Clear Roadway/Skew 10.2 / 54 AADT/Year 1,220 / 2 Road Classification RAU-211 Detour Length (km) 300 Bridge Culvert Information Number of Culverts Pipe # Barrel MAIN Special Features						•			David Morrison						
Contract Main. Area CMA05 Clear Roadway/Skew 10.2 / 54 AADT/Year 1,220 / 20 Road Classification RAU-211 Detour Length (km) 300 Bridge Culvert Information Number of Culverts 1 Pipe # Barrel S 1 MAIN - Special Features S Special Features Comment Utility Attachments Telephone							Review Da	ate	10-Jan-2013						
Road Classification RAU-2 Detour Length (km) 300							Follow-Up By								
			11.0 110				-								
										I.					
			1												
			Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape			
1	MAIN		-	2430		SP		167		152X51	3.0,3.0,4.0	ROUND			
			SHOTCRETE					1.01			10.0,0.0,	11100111			
•		nent													
					Uti	ilities (L	_ocated	at)							
	nts								<u> </u>						
							Gas								
							Munici								
Others							Proble	m (Y/N)	No						
Remarks				Δ.		h Dan	d / Emb	an kun an t							
Approach Road / Embankment Last Now Explanation of Condition															
Horizontal Alignr	ment				7	7									
Horizontal Alignment Vertical Alignment					5	No passing north bound. Steep grade but straight - est 7%.									
Roadway Width	(m)		10.200												
Roadway Widin	(111)		10.200	10.200											
Embankment					4	Erosio	n gully @	NW.10	00 m in length, 0x300Dx20m g	4.0 wide and 2	m in depth.				
Embankment Sideslope (:1)			3.0				LIUSIUI	i guily w	3L 40	ox300Dx20III g	iasseu iii.iviay	25, 2007			
(Height of Cov	ver(m):	14)													
Guardrail (Y/N)			No			_									
Approach Road	d / Emb	ankme	nt General Rat	ing	5	5									
						Upstre	am End								
Culvert Compo	nent				Last	Now	Explar	ation of	Condi	tion					
Direction					E		Honey	comb on f	face.						
End Treatment (Concrete, Steel, CONCRETE Others, None)															
Headwall				6 6											
Collar			N		6	Snow covered.									
Wingwalls				X X											
(Shape:)															

			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
Cutoff Wall		N	N						
Bevel End		N	N	drift					
Heaving (mm)	100								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	100								
Scour Protection		N	6						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 250)									
Scour/Erosion		N	6						
D 0//N	.								
Beavers (Y/N)	No								
Upstream End General Rating		6	6						
				Ivert Barrel					
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 2430, Type: SP)					
Barrel Last Accessible Date	23-Aug-2012								
Special Features									
Special Feature		5	5	Beam has vertical cracks on the Vert. rebar locations for a 20m long					
(Type : SHOTCRETE BEAM)				section @ 9:00 position wide crack @ R37-R43.					
Special Feature									
(Type:)									
Roof		6	5	Couldn't measure due to rock & high flow.					
Measured Rise (mm)				3					
Measured At Ring No.	53								
Sag (mm)	150			Est. upward deflection					
Percent Sag	2								
Sidewall		6	5	Inward deflection					
Measured Span (mm)	2280								
Measured At Ring No.	53								
Deflection (mm)	150								
Percent Deflection	6								
Floor		N	5	Covered with rock.					
Bulge (mm)	0			1					
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		7	7	4N stagger					
Separation (mm)	0								
Longitudinal Seams		6	6	Insufficient thread on approx 10% of bolts.					
Total No. of Cracked Rings				1					
Total No. of Rings with Two Cracked Seams	0			1N Stagger at u/s end. Rings 1-4, not stagger at d/s end.					
Min. Remaining Steel				The Otayyor at 4/3 ond. Milys 1-4, not stayyor at 4/5 ond.					
Between Cracks (mm) Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	No								
Coating	-	6	6	Minor superficial rust, 650mm wide strip on floor.					
Corrosion By Soil (Y/N)	No	0	J	winer supernoise rust, sooniin wide strip on noor.					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								

80694 -1 Bridge Culvert

				lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Sp	oan (mm	1):	, Rise (mm): 2430, Type: SP)				
Ponding (Y/N)	No							
Fish Passage Adequacy		Х	Х	Hanging outlet.May 26, 2007				
Baffle		4	4	Concrete weirs.				
(Type : WEIR)				1/4 of wiers spalled with rebar visible.				
Waterway Adequacy		5	3					
Icing (Y/N)	No			U/S end covered in driftphoto				
Silting (Y/N)	No			o, o one covered in anii. prioto				
Drift (Y/N)	Yes							
Barrel General Rating		5	5					
		D	ownst	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		W						
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	Х					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape:)			_					
Cutoff Wall		X	X					
Bevel End		N	3	Bevel pushed in 150mm. Rip-rap				
Heaving (mm)	75			smaller around the pipe. Bevel hanging 1.5mphoto				
Invert Above/Below Stream Bed	ABOVE			Dever nanging 1.5mphoto				
Above/Below (mm)	1300			-				
Scour Protection	1000	N	3	Rip-rap smaller around the pipe. Mostly sandstone.				
(Type : RIP RAP)		14		Scour 8.5mWx9mLx1.8mDphoto				
(Avg. Rock Size(mm) : 600)				-				
Scour/Erosion		N	3	6 05 W0 L L0 B L L				
Beavers (Y/N)	No			Scour 8.5mWx9mLx1.8mDphoto				
Downstream End General Ratir	<u> </u>	4	3					
	-9							
				re Usage				
011/11/01 D/0		Last	Now	Explanation of Condition				
Channel (U/S and D/S)		7						
Alignment		7	7					
Bank Stability		7	7					
HWM (m below Top of Culvert)				Hwm not visible.				
Drift (Y/N)	No							
Channel Bottom DEGRADING				Downstream only.				
Degrading/Aggrading Beavers (V/N)	No			-				
Beavers (Y/N) (Fish Componentian Measure 1 :								
(Fish Compensation Measure 1 : (Fish Compensation Measure 2 :								
•	NONE)	7	7					
Channel General Rating		7	7					

80694 -1 Bridge Culvert

		Maintenance Re	ecommendations						
Inspector Recommendations	Year	Inspector Comments		ent Comments	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP	2013	Place 50m2 Class 2 riprap d/s							
REMOVE DRIFT ACCUMULATION	2013	from u/s end.							
INSTALL CONCRETE/STEEL LINING	i								
INSTALL STRUTS									\perp
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS	2013	Repair erosion at d/s end.							
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 55.6/55	Sufficiency Rating (Last/	Now) 52.4/44.6	Est.	Repl. Yr	2021	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection			Departme Commen						
Maintenance Reviewed By			Date			Е	Estimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Russel Vande	schaaf	Previous Assistant's	Previous Assistant's Name					
Next Inspection Date	23-May-2014		Previous Inspection	Date 2					
Inspection Cycle (Default) (months)	21								
Comment									