					Bridg	e Culve	rt Insp	ection								
Bridge File Num	ber (01003 -	-1 Bridge Culve	rt			Form 7	Гуре		CUL1						
Year Built 1962							Lot No.			2						
Bridge or Town Name DEL BONITA							Inspec	tor Name		Jon Davies						
Located Over	-	TRIBU	ARY TO POTHOLE CREEK, 2.6, WATERCRS-ST			Inspec	Inspector Class BR CLS B									
Lasatad On				KS-51			Assista	Assistant Name								
Located On		62:U2 C	71 28.502	1 28.502				ant Class								
Water Body Cl./							Inspec	tion Date		04-Oct-2011						
Navigabil. Cl./Year Legal Land Location SE SEC 30 TWP 3 RGE 21 W4M				N 4		Data E	ntry By		Erin Roberts							
Legal Land Loca				IE 21 VV4	IVI		Data E	a Entry Date 17-Nov-2011								
Longitude, Latitude -112:49:02 Road Authority Alberta Tra			•	/AIT\			Reviev	Reviewer Name Garry Roberts								
Road Authority Alberta Trai Contract Main. Area CMA25 Clear Roadway/Skew 10.2 / 0 deg						Review Date			10-Nov-2011							
							Dept. I	Reviewer	Name	Tim Davies						
AADT/Year 360 / 2010 Road Classification RAU-209-1							Review Da	ate	21-Nov-2011							
Road Classification RAU-209 Detour Length (km) 37 Bridge Culvert Information				Follow-Up By												
			<u> </u>													
Number of Culve			1													
	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape				
1	MAIN		2605	2880		SPE		34.1		152X51	3.5	ELLIPSE				
Special Features				1				10.11		1.02.101	1010	1				
Special Features		nent														
·																
					Uti	ilities (L	ocated	at)								
Utility Attachmer	T '	- 4 D // //					0									
Telephone	IN Wes		NTOULAS FD	014.01			Gas									
Power	3 LINE	East L	OITCH 15 m FR	OIVI CL			Munici		No							
Others Remarks							Proble	m (Y/N)	No							
Remarks				Δι	nnroad	ch Roac	l / Emb	ankment								
					Last			nation of		tion						
Horizontal Aligni	ment				6	6				ssing SB. Curve	e 150 m to the	South.				
Vertical Alignme					6	6			•	J						
Roadway Width (m)		10.200														
Embankment					7	7										
Sideslope (:1) 4.0																
(Height of Cov	·er(m) : '	1.5)														
Guardrail (Y/N)		,	Yes													
Approach Road	d / Emba	ankme	nt General Rat	ing	6	6										
						Upstre	am Enc									
Culvert Compo	nent				Last	Now		nation of	Condi	tion						
Direction					W											
End Treatment (Others, None)	(Concret	te, Stee	el, STEEL													
Headwall					Х	Х										
Collar			Х	Х												
Wingwalls					Х	Х										
(Shape:)																
Cutoff Wall				X	X											

01003 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	5	Voids at haunches extend 600mm
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection	1.00	7	5	Displaced rock
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	5	Minor scour below invert extends under 500mm
		,		Thin of dead book in on one of and of deathin
Beavers (Y/N)	No			
		_		
Upstream End General Rating		7	5	
		Brid	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca t	tion Code: MAIN,			· ·
Barrel Last Accessible Date	04-Oct-2011		,	
	3. 33. 2311			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)		<u> </u>		
Roof		7	7	
Measured Rise (mm)	2850			
Measured At Ring No.	6			
Sag (mm)	30			-
Percent Sag	1			-
Sidewall		7	7	
Measured Span (mm)	2660	- 1	,	
Measured At Ring No.	6			
Deflection (mm)	55			-
Percent Deflection	2			-
Floor		6	6	
Bulge (mm)	0			
Measured At Ring No.	 			
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			1N stagger
Min. Remaining Steel Between Cracks (mm)	0			1N stagger
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	Corrosion with some pitting @ floor
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	POS			
Ponding (Y/N)	No			

01003 -1 Bridge Culvert

		Brio	dge Cu	lvert Barrel					
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm): 2605	, Rise (mm): 2880, Type: SPE)					
Fish Passage Adequacy		5	5						
(Pipe #: 1, Primary Span, Location Code: MAIN, Sp		Х	Х						
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
	No								
Barrel General Rating		7	7						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		E							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar		X	X						
Wingwalls			X						
Cutoff Wall			X						
Bevel End			6	Bevel edge with no fill along sides					
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	200								
Scour Protection		5	3	Not complete. Displaced rock					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 200)									
Scour/Erosion			3	Scour hole and settlement- under mining SE embankment. Scour hole 12m x 5m x 2m					
Beavers (Y/N)	s (Y/N) No								
Downstream End General Ratio	ng	5	3						
		\$	tructu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		5	4	Outlet is directed towards a bank which has eroded.					
Bank Stability		6	4	D/S South bank has slumped 4m from invert. 12m x 3m x 2m area worst affected causing back edge to invert					
HWM (m below Top of Culvert)				HWM not visible					
Drift (Y/N) No				1					
Channel Bottom Degrading/Aggrading	DEGRADING			D/S only.					
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :									
(Fish Compensation Measure 2 :									
Channel General Rating	,	5	4						

		Maintenance	Recommendations					
Inspector Recommendations	Year	Inspector Comments	Department Co	omments	Т	arget Year	Est. Cost	Cat #
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP	2012	Place 72m3 class 2 RipRap at D/	/S					
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING								
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUTO	OFF							
REPAIR SEAMS								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/No (%)	ow) 77.8/77	7.8 Sufficiency Rating (La (%)	ast/Now) 74.3/67.7	Est. Repl. Yr	2030	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments					
Maintenance Reviewed By			Date		Est	timated Total	0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Garry Roberts		Previous Assistant's Nam	e				
Next Inspection Date	04-Jul-2013		Previous Inspection Date	20-Jan-2010				
•								
Inspection Cycle (Default) (months)	21							