					Brida	e Culve	ert Inspe	ection							
Bridge File Nu	mber	76964 -1 Bridge Culvert				o ounre	Form T			CUL1					
Year Built		1970					Lot No.			1					
Bridge or Town Name COALDALE						Inspector Name			Garry Roberts						
Located Over SMR - IRRIGATION C, WATER				CRS-I	C	Inspector Class			BR CLS A						
Located On 512:02 C1 19.323						•	Assistant Name			Directori					
Water Body Cl	l /Year	012.02 0	110.020				Assistant Class								
Navigabil. Cl./							Inspection Date			20-Mar-2012					
				= 19 \///M			Data Entry By			Lauren Korte					
							Data Entry Date			12-Apr-2012					
								er Name		Tom Carey					
Contract Main. Area CMA24							Review Date			23-Mar-2012					
Clear Roadway/Skew 10.4 / 45 deg. (RHF)															
AADT/Year	y/Skew	470 / 20								<ul><li>Tim Davies</li><li>17-Apr-2012</li></ul>					
	otion	RCU-20	. ,			· ·			pt. Review Date						
Road Classific			9-110				Follow-Up By								
Detour Length		3													
Bridge Culver															
Number of Cul		1 Dias (ar		Dico /ar 5						Corr Drofile	PI./Slab	Shana			
Pipe #	Barrel		Span	Rise (or I	ла.)	Туре		Length		Corr. Profile	Thickness	Shape			
1	MAIN	2	2490	1750		RPP		25.2		152X51	3.5,3.5,3.5	PIPE ARCH			
Special Featur	res														
Special Featur	res Com	ment													
					Uti	lities (L	ocated	at)							
Utility Attachm															
Telephone		side & pedestal to South. Gas Crosses road 25m West.													
Power	2 line	s North &	East side.				Municipal								
Others	_							m (Y/N)	No						
Remarks															
							1	ankment							
			Last 5	Now 5	Explanation of Condition										
Horizontal Alig					8 8		Under intersection, farm entrance West & East 40m.								
Vertical Alignment		0.500		<u> </u>											
Roadway Width (m)		9.500													
Embankment			6 4			Edge of road is within 1.5 m of barrel.									
Sideslope (:1) 1.5							-								
(Height of Co	over(m)	: <b>0.5</b> )													
Guardrail (Y/N	)		No												
Approach Road / Embankment General Rating					5	5									
						Unstre	am End								
Culvert Comp	onent						Explan		Condi	tion					
Culvert Comp	onent				Last		<u> </u>	ation of	Condi	tion					
Direction End Treatmen	t (Concr	ete, Steel	, STEEL				Explan South.		Condi	tion					
Direction	t (Concr	ete, Steel	, STEEL		Last		<u> </u>		Condi	lion					
Direction End Treatmen Others, None)	t (Concr	ete, Steel	, STEEL		Last S	Now	<u> </u>		Condit	lion					
Direction End Treatmen Others, None) Headwall Collar	t (Concr	ete, Steel	, STEEL		Last S X X	Now X X X	<u> </u>		Condit	lion					
Direction End Treatmen Others, None) Headwall Collar Wingwalls	t (Concr	ete, Steel	, STEEL		Last S X	Now	<u> </u>		Condit	tion					
Direction End Treatmen Others, None) Headwall Collar	t (Concr	ete, Steel	, STEEL		Last S X X	Now X X X	<u> </u>		Condi	tion					

Alberta Transportation

			Upstre	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		5	5	Some corrosion with pitting.					
Heaving (mm)	70								
Invert Above/Below Stream Bed BELOW				_					
Above/Below (mm) 100			1						
Scour Protection		5	5	Scattered rock.					
(Type : NATURAL)				_					
(Avg. Rock Size(mm) : )			-						
Scour/Erosion		5	5						
Beavers (Y/N)	No								
Upstream End General Rating			5						
		Bric	lge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	): 2490	), Rise (mm): 1750, Type: RPP)					
Barrel Last Accessible Date	21-Mar-2009								
Special Features									
Special Feature				-					
(Type:)			1	4					
Special Feature				-					
(Туре : )									
Roof		4	4	Roof - gap along longitudinal plate ring 4 of 20mm.					
Measured Rise (mm)	1607								
Measured At Ring No.	5								
Sag (mm)	143								
Percent Sag	8								
Sidewall		3	3	Beginning of reverse curvature @ 10:00 position- R4 West seam.					
Measured Span (mm)	2614			-					
Measured At Ring No.	5								
Deflection (mm)	124								
Percent Deflection	5								
Floor		5	N	Ice.					
Bulge (mm)	0			-					
Measured At Ring No.				-					
Abrasion (Y/N) No									
Circumferential Seams		5	5	Staggered.					
Separation (mm)	0								
Longitudinal Seams		3 3		Ring 2,3,4,5,7,8 cracks North sidewall.					
Total No. of Cracked Rings				Some crimping by seam South #4,5,6. Some bolts heads being pulled inward at East sidewall.					
Total No. of Rings with Two Cracked Seams	0			Ring 2 - 60mm left, ring 5 - 70mm left.					
Min. Remaining Steel Between Cracks (mm)	60			1N stagger at roof only.					
Proper Lap (Y/N)	No			1					
Longitudinal Stagger (Y/N)	No			<u> </u>					
Coating		4	4	Heavy corrosion with pitting at floor to mid sidewall.					
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes			1					
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	No								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dae Cu	Ivert Barrel					
Culvert Component		Last		Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa								
Fish Passage Adequacy			5						
Baffle	Baffle								
(Type:)		X	X						
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)									
Drift (Y/N) No									
Barrel General Rating			3						
			ownet	ream End					
Culvert Component			Now	Explanation of Condition					
Direction		N		North.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar			X						
Wingwalls		X	Х						
(Shape : )	(Shape : )		-						
Cutoff Wall			X						
Bevel End			6						
Heaving (mm) 50									
vert Above/Below Stream Bed ABOVE									
Above/Below (mm) 200									
Scour Protection		5	5	_					
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : 250)									
Scour/Erosion		5	5	Minor loss of fill along outside of bevel.					
Beavers (Y/N)	No								
Downstream End General Ration	ng	5	5						
		S	Structu	re Usage					
			Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		6	6	Turnouts 5 m D/S (North), & 30 m D/S (East).					
Bank Stability		5	5						
HWM (m below Top of Culvert) 1.1				No visible HWM.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	NONE								
Beavers (Y/N)				1					
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·			1					
Channel General Rating	,	6	6						
-									

Maintenance Recommendations												
Inspector Recommendations		Year	Inspecto	r Comments		Department Comments					Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTOFF												
REPAIR SEAMS												
OTHER ACTION		2012	Assess f	or replacement.								
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)				Sufficiency Rating (Las (%)	t/Now)	<b>52.6/52.6</b> Es		st. Repl. Yr 2014		Maint. Rec	qd. (Y/N)	Yes
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 Glen		ikesh			Previous	s Assistant's Name Bernie Roseke						
Next Inspection Date	20-Jun	-2015			Previous	Inspection Date	22	2-Apr-2009				
Inspection Cycle (Default) (months)	39											
Comment												