Bridge Culvert Inspection														
Bridge File Number 07098 -1 Bridge Culvert						Form Type			CUL1					
Year Built								Lot No.		1				
Bridge or Town Name ORION			RION					tor Name		Jon Davies				
Located Over		TRIBUTARY TO FOURWAYS CR				REEK.				BR CLS B				
	11.1.1.2.	11.1.1.2.2, WATERCRS-ST					Int Name							
Located On 887:04 C1 7.333							Assistant Class							
Water Body Cl	./Year				Inspection Date				24-Jun-2012					
Navigabil. Cl./Year								ntry By		Lauren Korte				
Legal Land Location SW SEC								ntry Date		25-Jul-2012				
			0:03, 49:31:42					/er Name		Garry Roberts				
			Transportation (AIT)					/ Date		09-Jul-2012				
Contract Main. Area CMA24								Tim Davies						
Clear Roadway/Skew 8.1 / -17			7 deg. (LHF)					Review Da		30-Jul-2012				
AADT/Year			30 / 2011 (A)					Up By						
Road Classific		RCU-209	9-110											
	Detour Length (km) 16													
Bridge Culver														
	lumber of Culverts									_				
Pipe #	Barrel	5	Span Rise (or		Dia.)	Dia.) Type		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	-		1830		MP		45.1			3.5	ROUND		
Special Featur										1	1010			
Special Features Comment														
•														
					Uti	lities (l	ocated	at)						
Utility Attachm														
Telephone							Gas							
Power								Municipal						
Others							Proble	m (Y/N)	No					
Remarks														
				Α		Now		ankment	Condi	tion				
Horizontal Alia	Horizontol Alignment					5	Explanation of Condition Road curves to South.							
Horizontal Alignment Vertical Alignment					5 8	8								
			8.100			0								
Roadway Width (m) 8.100			0.100											
Embankment				8	7									
Sideslope (_:1)		4.0											
(Height of Co	over(m)	: 4.5)												
Guardrail (Y/N)		No											
Approach De	od / Earl	honkman	t Conoral Det	ina	F	F								
Approach Roa	au / Emi	Jankmen	General Rat	ing	5	5								
						Upstre	am End							
Culvert Component			Last	Now	Explan	Explanation of Condition								
Direction							East.							
End Treatment	t (Concre	ete, Steel	, STEEL											
Others, None) Headwall			X	X	<u> </u>									
Collar				X	X									
					_									
Wingwalls				X	X	-								
(Shape :)														
Cutoff Wall				X	X									
						- 1								

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	I	5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection			5	
(Type : NATURAL)				
(Avg. Rock Size(mm) : 250)		1	1	
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Brid	lge Cu	Ivert Barrel
Culvert Component		1	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm)):	, Rise (mm): 1830, Type: MP)
Barrel Last Accessible Date	24-Jun-2012			
Special Features	·			
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		2	2	Water and silt up to 700mm.
Measured Rise (mm)	1483			
Measured At Ring No.	6			Estimate.
Sag (mm)	347			
Percent Sag	19			
Sidewall		2	2	Manufactured spiral seam split 12m from U/S.
Measured Span (mm)	2098			Cracking on sidewall, 1400mm East of 3rd circ seam from U/S 40mm
Measured At Ring No.	4			 between cracks. Up to 80mm horizontal separation manufactured seam.
Deflection (mm)	268			
Percent Deflection	15			
Floor	10	5	N	Only U/S 1/3 visible.
Bulge (mm)				
Measured At Ring No.				-
Abrasion (Y/N)				-
Circumferential Seams		4	4	Separation 12m from U/S end 5th seam from U/S end has grout
Separation (mm)	80	4	4	around upper half.
	00	V	V	
Longitudinal Seams		X	X	
Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel				
Between Cracks (mm)				-
Proper Lap (Y/N)				-
Longitudinal Stagger (Y/N)				
	X	4	4	Moderate corrosion with light pitting at floor. Alkali staining.
Corrosion By Soil (Y/N)	Yes			-
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

07098 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel					
Culvert Component		1	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm):	, Rise (mm): 1830, Type: MP)					
Fish Passage Adequacy		6	6						
Baffle		X	X						
(Type :)									
Waterway Adequacy		5	5	(Flooded 1/2 way up embankment (93)).					
Icing (Y/N) No				Slit to 0.8 m for 3/4 length.					
Silting (Y/N)									
Drift (Y/N)	No								
Barrel General Rating		2	2						
		1	1	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction	OTEEL			West.					
End Treatment (Concrete, Steel, Others, None)	SIEEL								
Headwall	1	Х	Х						
Collar		X	X						
Wingwalls		X	X						
(Shape :)		^	^						
Cutoff Wall		X	Х						
		^	^						
Bevel End		5	5						
Heaving (mm) 0									
Invert Above/Below Stream Bed BELOW									
Above/Below (mm)	500								
Scour Protection		6	6	Sparse rock.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 250)									
Scour/Erosion		6	6						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	5	5						
				re Usage Explanation of Condition					
Channel (II/S and D/S)		Last	Now						
Channel (U/S and D/S) Alignment			6	Dugout 25 m East of pipe (U/S) Dugout 50 m West of pipe (D/S)					
Bank Stability			7						
Bank Stability			/ ·						
HWM (m below Top of Culvert)				No visible HWM. Fence at U/S at bevel acts as significant drift catch.					
Drift (Y/N) Yes									
Channel Bottom AGGRADING Degrading/Aggrading									
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		6	6						

Alberta Transportation

Maintenance Recommendations													
Inspector Recommendations		Year	Inspector Comments				Department Co	ts		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS		2012	Strut unti	I replaced or line	ed.								
INSTALL CONCRETE COLLAR/CUTC	DFF												
REPAIR SEAMS													
OTHER ACTION		2012	Place on	the replacement	t list or line the	pipe.							
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/No(%)	ow)	22.2/22.2		Sufficiency Rating (Last/Now) (%)		/) 4	41.3/41.4 Est		. Repl. Yr 2012		Maint. Reqd. (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		Garry Roberts Previou					Assistant's Name						
Next Inspection Date	24-Sep-2015 Previous					evious I	Inspection Date 15-Jun-2009						
Inspection Cycle (Default) (months)	39												
Comment													