09455 -1 Bridge Culvert

Bridge Culvert Inspection														
Bridge File Number 09455 -1 Bridge Culvert							Form Type			CUL1				
Bridge File Number							Lot No			4				
Bridge or Town	LL					Inspector Name		Jon Davies						
Located Over		TRIBUT	FARY TO TONG	GUE CRE	EK,		Inspector Class		BR CLS B					
Located On								Assistant Name						
	Year	0.0.02					Assistant Class							
Year Built Bridge or Town Name HARTELL Located Over TRIBUTAR 2.13.27.5.7, Located On Water Body CI./Year Navigabil. CI./Year Legal Land Location Longitude, Latitude Longitude, Latitude Lontract Main. Area CMA27 Clear Roadway/Skew AADT/Year Road Classification RLU-209G-Detour Length (km) Ridge Culvert Information Number of Culverts Pipe # Barrel Spacial Features Special Features Comment Utility Attachments Telephone South ROW. Power North ROW. Others Remarks Horizontal Alignment Vertical Alignment Vertical Alignment		C 15 TWP 19 R	GE 2 W5	5M										
				(AIT)					!					
			Tanoportation (First)											
		dea. (RHF)	g. (RHF)						Tim Davies					
									ate	08-Apr-2013				
	tion						Follow	-ор ву						
Detour Length (I	km)	7												
Number of Culve	erts		1											
Pipe #	Barrel		Span	Span Rise (or I		Dia.) Type		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		1738	1920		SPE		69.5		152X51	2.8	ELLIPSE		
Special Features VERT TIMBER STRUTS				3										
Special Features	s Comr	ment												
Utilities (Located at)														
Utility Attachme	nts					,		,						
					Gas									
	North						Munici	pal						
Others									No					
Remarks														
	Approach Road / Embankment													
							Explanation of Condition							
					1									
Vertical Alignment				6	6	Minor	ditch eres	ion - 41	m West of d/s h	nevel				
Roadway Width (m)			7 700			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
•	(111)		7.700											
Embankment					6	6								
			3.0				-							
(Height of Cover(m) : 6)														
Guardrail (Y/N)			No			_								
Approach Road	d / Emb	oankme	nt General Rati	ing	6	6								
	Assistant Name Assistant Class Assistant Class Assistant Class Assistant Class Inspection Date Date Class Date Class													
Culvert Component						Now	Explar	nation of	Condi	tion				
Direction						North.								
End Treatment (Concrete, Steel, Others, None)														
Headwall					Х	Х								
Collar			Х	Х										
Wingwalls			X	X										
(Shape:)	(Shape:)													

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			Upstre	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Cutoff Wall		X	Х							
Bevel End		5	5							
Heaving (mm)	100									
Invert Above/Below Stream Bed										
Above/Below (mm)	50			_						
Scour Protection	100	5	5	Bevel heaving and twisting-minor. Bevel, R1 and R2 installed on						
(Type : RIP RAP)				moderate sloped grade.						
(Avg. Rock Size(mm) : 200)				_						
Scour/Erosion		5	5	From bevel to ring 2 drops 650mm.						
	T	J		Trom bever to mig 2 drops coomin.						
Beavers (Y/N)	No									
Upstream End General Rating		5	5							
		Bri	dge Cu	Ilvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, S	Span (mm	n): 1738	B, Rise (mm): 1920, Type: SPE)						
Barrel Last Accessible Date	08-Mar-2013									
Special Features	l									
Special Feature		3	4	Missing 7 - 10 struts, only 3 remain. Not functional or required.						
(Type: VERT TIMBER STRUTS)	<u> </u>								
Special Feature	,									
(Type:)										
Roof		5	5	(Seepage thru bolt holes from 2.5 m						
Measured Rise (mm)	1800			to 10 m from upstream). 16-Dec-2009						
Measured At Ring No.	8									
Sag (mm)	120			Estimate. General roof shape is adequate.						
Percent Sag	6			General 1001 Shape is adequate.						
Sidewall	-	6	6	Three holes made with blow torch up to 200mm in R1 and 2 minor						
Measured Span (mm)	1830			loss of fill.						
Measured At Ring No.	7									
Deflection (mm)	92			1						
Percent Deflection	5									
Floor	-	N	N	Water and silt covered.						
Bulge (mm)	0	.,	.,	300mm ice.						
Measured At Ring No.	-			1						
Abrasion (Y/N)	No			1						
Circumferential Seams		5	5	Circ. seam @ 6.2: plate broken off						
Separation (mm)	10	3	J	and (welded/91). Bolts missing where ext. meets at U/S and D/S.						
	10	7	7							
Longitudinal Seams Total No. of Cracked Bings	0	1	/	-						
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams				1N stagger.						
Min. Remaining Steel Between Cracks (mm)	0									
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	Yes									
Coating		5	5	Minor corrosion at bolt holes and below water line.						
Corrosion By Soil (Y/N)	Yes									
Corrosion By Water (Y/N)	Yes			1						
Camber POS/ZERO/NEG	NEG									

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Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 1738	, Rise (mm): 1920, Type: SPE)					
Ponding (Y/N)	No								
Fish Passage Adequacy		Х	5						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		5	5						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		5	5						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction				South.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape:)			1						
Cutoff Wall		X	X						
Bevel End		4	5	Minor hole in floor of bevel.					
Heaving (mm)	100								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	300								
Scour Protection		4	5	Cavity under bevel - undermined 2m, but mostly rock rilled.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 400)		1	1						
Scour/Erosion		4	5	Pool formed @ d/s end (7.0 m x 10.0) x 0.8m deep - rock lined.					
Beavers (Y/N)	No								
Downstream End General Ratio	ng	4	5						
		\$	tructu	re Usage					
			Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		8	8						
Bank Stability		7	7						
HWM (m below Top of Culvert)				No HWM visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	DEGRADING								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		8	8						

			Maintena	nce Recommen	dations					
Inspector Recommendations	Year	Inspec	tor Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS								3		
PLACE ADDITIONAL RIP RAP										
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) 55.6	/55.6	Sufficiency Rating (Last/Now) (%)		54.3/55.5	Est. Repl. Y	r 2020	2020 Maint. Re		No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date			Estimated Tota	I 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Rex Davids	on		Previous	Assistant's Name					
Next Inspection Date	09-Jun-2016	5		Previous	Inspection Date 16-Dec-2009					
Inspection Cycle (Default) (months) 39										
Comment										