					Bridg	e Culve	ert Insp	ection						
Bridge File Num	ber	77042 -	-1 Bridge Culve	rt			Form 7	уре		CUL1				
Year Built		1969					Lot No.			1				
Bridge or Town	Name	HIGHR	IDGE				Inspector Name		Melanie Johnson					
Located Over		TRIBU	TARY TO NEW	TON CRE	EEK,		· ·	tor Class		BR CLS B				
Located On			C1 5.875	0110-01			Assistant Name							
Water Body Cl./Year							Assistant Class							
Navigabil. Cl./Ye								Inspection Date		23-Aug-2011				
Legal Land Loca		NW SE	C 7 TWP 58 R	GE 1 \//5N	. <u> </u>		Data Entry By			Theresa Lacus	sta			
Longitude, Latitu			0:03, 54:00:05	GL I WON	VI		Data Entry Date		13-Sep-2011					
Road Authority	uue		Transportation	(AIT)			Reviewer Name		Eric Carcoux					
Contract Main. A	\rea	CMA10		(Δ11)			Review Date			07-Sep-2011				
Clear Roadway/			deg. (RHF)	10a (DUE)				Dept. Reviewer Name						
AADT/Year	<u> </u>	130 / 20						Review Da	ate	15-Sep-2011				
Road Classificat	tion	RCU-20	` '				Follow-Up By							
Detour Length (I	-	32												
Bridge Culvert										1				
Number of Culve			1											
	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		-	1800		MP		39.6		68X13	3.5	ROUND		
Special Features			VERT STEEL					10010		1001110	1010	11100112		
Special Features		ment												
•														
Litility Attachman	nto				Uti	lities (L	ocated	at)						
Utility Attachmer	T	rhai					Gas							
Telephone West r/w.					Munici	nal								
Power 2 wires east r/w.						m (Y/N)	No							
Others Remarks BF tag installed.						FIODIE	III (1/1 N)	INO						
Remarks	ום נמנָ	y iriotalic	a.	Δι	nnroad	ch Road	l / Emb	ankment						
					Last	Now		ation of		tion				
Horizontal Alignment					7	7		entrance t						
Vertical Alignment				6	6	Crest curve to North w		ith limited sight	distances.					
Roadway Width (m)		8.100												
Embankment					7	7								
Sideslope (:	·1)		3.0											
(Height of Cov		3 7)	3.0				-							
Guardrail (Y/N)		 ,	No											
Approach Road	d / Emk	oankme	nt General Rat	ting	6	6								
						Unstre	am End							
Culvert Compo	nent				Last	Now	1	nation of	Condi	tion				
Direction					E	11011	_xpia.		Coman					
End Treatment (Others, None)	(Concre	ete, Stee	el, STEEL				-							
Headwall					Х	Х								
Collar		Х	Х											
Wingwalls					X	X								
(Shape:)														

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		4	4	Bevel projecting 2m.
Heaving (mm)	75			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection	100	3	3	Embankment around pipe scouring and undermining bevel - photo.
(Type : NONE)				Bevel protruding from fill ~ 2m.
(Avg. Rock Size(mm):)				-
Scour/Erosion		3	3	
	l			
Beavers (Y/N)	No			Drift caught on struts.
Upstream End General Rating		3	3	
				lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat		Span (mm	1):	, Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	23-Aug-2011			
Special Features				
Special Feature		7	5	Struts leaning
(Type: VERT STEEL STRUTS)				
Special Feature				
(Type:)				
Roof		3	3	
Measured Rise (mm)	1540			
Measured At Ring No.				
Sag (mm)	260			
Percent Sag	14			
Sidewall		3	3	
Measured Span (mm)	2050			Near 1/3.
Measured At Ring No.				-
Deflection (mm)	250			-
Percent Deflection	14			
Floor		N	4	Floor is uneven.
Bulge (mm)	0	IN	-+	THOSE IS WHEVELL.
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams	140	6	6	
	90	О	6	-
Separation (mm)	30			Diversed
Longitudinal Seams		6	6	Riveted.
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)				
Coating		4	4	Pitting rust on floor. Spot stains at some joints.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

		Brid	dae Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa			, Rise (mm): 1800, Type: MP)
Ponding (Y/N)	No	,	<u> </u>	
Fish Passage Adequacy			3	1.5m drop off end - photo.
Baffle		X	X	
(Type:)				
Waterway Adequacy		4	4	Scour hole @ D/S end, likely undersized.
Icing (Y/N)	Yes			(0.3m. 22/Feb/2005)
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	G.R. increased by 1 pt due to presence of HSS struts.
			ownst	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		W	INOW	Explanation of condition
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		4	4	Bevel projecting 1.5m from fill.
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1100			
Scour Protection		3	3	
(Type : NONE)				
(Avg. Rock Size(mm):)				
Scour/Erosion		3	3	Scour hole 6 x 6 x 1.5m deep. Bevel undermined - photo.
Beavers (Y/N)	No			
Downstream End General Ratio	ng	3	3	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)		1		
Alignment		4	4	90 degree bend @ U/S end.
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		4	4	

77042 -1 Bridge Culvert

Structure Usage								
	Last	Now	Explanation of Condition					

77042 -1 Bridge Culvert

		Maintenance R	Recommendations						
Inspector Recommendations	Year	Inspector Comments		Department Comments					Cat #
SHOTCRETE REPAIRS		·							
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	3								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION	2013	Program replacement with regradin	g of S777.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) 44.4/44	Sufficiency Rating (Last (%)	/Now) 36.4/36.0	Es	t. Repl. Yr	2013 Maint. Re		qd. (Y/N)	Yes
Special Comments for Next Inspection Shorten inspection Monitor deflections	to 24 month cyc until replaced.	les or after high water event.	Department Comments	nt					
Maintenance Reviewed By			Date			E	stimated Tota	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Dave Lam		Previous Assistant's N	Assistant's Name					
Next Inspection Date	23-Nov-2014		Previous Inspection Da	ate	05-May-2008				
Inspection Cycle (Default) (months)	39								
Comment									