					Brida	e Culve	ert Inspec	ction					
Bridge File Number 74348 -1 Bridge Culvert			Direg	o ourve	Form Ty			CULM					
Year Built 1954			7 1 Bridge Guivert				Lot No.			2			
Bridge or Town Name HINTON			ON			Inspector Name			Shane Hall				
			ARDISTY CREEK, 8.11.138, WATERCRS-			RCRS-	Inspector Class			BR CLS A			
ST		, , , , , , , , , , , , , , , , , , , ,			Assistant Name								
			29.097;16:02 L1 29.104				Assistant Class						
Water Body Cl./Year							Inspection Date		12-Aug-2012				
Navigabil. Cl./Year							· ·	Data Entry By		Theresa Lacusta			
		C 13 TWP 51 RGE 25 W5M				Data Entry Date		10-Sep-2012					
			-117:32:57, 53:24:35				Reviewer Name		Eric Carcoux				
·		Transportation (AIT)				Review Date		30-Aug-2012					
Contract Main.		CMA13					Dept. Reviewer Name		Brent Herrick				
Clear Roadway	//Skew	25.5 /					Dept. Review Date		18-Sep-2012				
AADT/Year		8,730 / 2					Follow-Up By						
Road Classifica		RAD-41	2.4-120				-						
Detour Length	` '	1											
Bridge Culver													
Number of Culv			1	D: /	D: \	_	Ι,			0 0 0	DI /OL I	01	
Pipe #	Barrel	Span Rise (or		Dia.)	Type		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN	8	3000	2500		ВР	17	70.3				RECTANGLE	
Special Features										ı			
Special Feature		ment											
·													
					Uti	ilities (L	Located a	it)					
Utility Attachme													
Telephone						Gas Gas runs along South embankment.							
Power		s North r/w.					Municipal Problem (Y/N) No						
Others			both embank				Problem	(Y/N)	No				
Remarks	File ta	ag in place	e on West cell		nnrood	oh Boo	d / Embar	nkmont					
				A				Explanation of Condition					
Horizontal Aligi	nment				7	7	Intersection to West.						
Vertical Alignm					7	7	Sag curve with good sight distance. Accel & decel lanes, both directions.						
			25.500							otn directions.			
Roadway Width (m) 25			25.500	25.500			12 EB; 1	13.5 WD.	•				
Embankment					6	6	Erosion	Erosion gully 600 deep x 1.0m deep @ NW. Gully f				led with riprap	
Sideslope (_:1)		2.5				and protected at intervals with silt fence.						
(Height of Co	ver(m)	: 6)											
Guardrail (Y/N))		Yes										
				•		Ι-							
Approach Roa	ad / Emi	bankmen	it General Rai	ing	7	7							
						Upstre	am End						
Culvert Comp	onent				Last	Now	Explana	tion of	Condi	tion			
Direction			S										
End Treatment (Concrete, Steel, CONCRETE Others, None)													
Headwall			6	6									
Collar	Collar			Х	Х								
Wingwalls			6	6									
(Shape : FLARE)													
Cutoff Wall			N	N									

Outroot Comment				am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	
Heaving (mm)	DELOW/			
Invert Above/Below Stream Bed				
Above/Below (mm)	200		Τ_	
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		Brid	dge Cu	lvert Barrel
Culvert Component				Explanation of Condition
-	tion Code: MAIN,			, Rise (mm): 2500, Type: BP, Cell Sequence: 1)
Barrel Last Accessible Date	12-Aug-2012			East cell.
Special Features				
Special Feature				
(Type:)		'		
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	2500			
Measured At Ring No.	2300			
Sag (mm)	0			
Percent Sag				
				Name of the state
Sidewall (1997)	0000	6	5	Narrow vertical cracks in wall every 2.5m. Bottom chamfer has chipped a total of approx 3m. Seepage through center wall cracks.
Measured Span (mm)	2000			2006. 400mm100x200mm wide delam on WE wall 5m from inlet.
Measured At Ring No.				40011111100x20011111 wide delaiti on WE wall 5111 from liflet.
Deflection (mm)	0			
Percent Deflection				
Floor	I	5	5	Abrasion up to 50mm. 2m2 of floor deteriorated rebar exposed.
Bulge (mm)	0			- The of hoof dotofforded robal exposed.
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		6	6	At construction joints.
Separation (mm)	24			
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)				
Coating		Х	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

74348 -1 Bridge Culvert

		Brid	dge Cu	Ilvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	ation Code: MAIN, Spa	an (mm): 4000), Rise (mm): 2500, Type: BP, Cell Sequence: 1)						
Fish Passage Adequacy		4	4	Drop at outlet .4m, steep grade.						
Baffle		Х	X							
(Type:)										
Waterway Adequacy		7	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		6	5							
		Brid	dge Cu	lvert Barrel						
Culvert Component				Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	ation Code: MAIN, Spa	an (mm): 4000), Rise (mm): 2500, Type: BP, Cell Sequence: 2)						
Barrel Last Accessible Date	12-Aug-2012			West cell.						
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Type:)										
Roof		6	6	Narrow vertical cracks in wall every 2.5m average. Medium crac						
Measured Rise (mm)	2500			approx 20m from U/S end.						
Measured At Ring No.										
Sag (mm)	0									
Percent Sag										
Sidewall		6	6	Medium crack @ approx 20m from U/S.						
Measured Span (mm)	4000									
Measured At Ring No.										
Deflection (mm)	0									
Percent Deflection										
Floor		4 3		Older section has severely scaled floor, down 50mm average and						
Bulge (mm)	0			exposed aggregate. Bottom chamfer has deteriorated a total of approx 3.0m in length.						
Measured At Ring No.				One localized area is 125m deepx4.0m wide for full width of cell						
Abrasion (Y/N)	Yes			Feels like floor is completely missing in this area.						
Circumferential Seams		5	5	At construction joint.						
Separation (mm)	25									
Longitudinal Seams		Х	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)										
Coating		X	X							
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	No									
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									

74348 -1 Bridge Culvert

		Brid	dge Cu	lvert Barrel				
•			Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 4000	, Rise (mm): 2500, Type: BP, Cell Sequence: 2)				
Fish Passage Adequacy		4	4	400mm outfall, steep grade.				
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		7	7					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
		6	3					
				eam End				
		Last	Now	Explanation of Condition				
	I	N						
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
		6	6					
Culvert Component Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls (Shape : FLARE) Cutoff Wall Bevel End Heaving (mm) Invert Above/Below Stream Bed ABOVE Above/Below (mm) Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 500) Scour/Erosion			0					
Collar		Х	Х					
		4	3	Wing @ E aside spalling and scaling. 50mm wide crack @ NE wing, with wing separating from barrel				
(Shape : FLARE)				photo				
				1m x 0.6 x 0.2m hole on apronphoto 0.5mx0.3m hole in apron adjacent to NE wingphoto				
				1mx0.3m hole at outlet from W. cellphoto				
			T	Water flowing under outlet slab. Slab has heaved approx. 75mm.				
Cutoff Wall		N	N					
Bevel End		Х	Х					
	ABOVE							
	750							
		7	7					
			· ·					
		7	7					
Coddi/Liodicii		,						
Beavers (Y/N)	No							
Downstream End General Ratio	าg	4	3					
			1					
		Last		re Usage Explanation of Condition				
Channel (U/S and D/S)		Last	INOW	Expandion of obligation				
Alignment			7					
3		7						
Bank Stability		7	7					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	Yes			Drift partially buckling u/s endphoto				
Channel Bottom Degrading/Aggrading	DEGRADING			Deg d/s.				
Beavers (Y/N) No								
(Fish Compensation Measure 1 :								
(Fish Compensation Measure 2 :								
Channel General Rating	,	7	7					
			1	I .				

			Maintenance Rec	ommend	ations					
Inspector Recommendations	Yea	Year Inspector Comments			Department Con	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION		3 From u/	's end.							
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION		3 Repair	NE wingwall and outlet slab.							
OTHER ACTION	201		er West cell to determine exter pairs and repair as required.	nt of need						
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 66.7/33.3 Sufficiency Rating (Last/I		ow) (60.4/44.4	Est. Repl. Yr	2048	Maint. Re	qd. (Y/N)	Yes	
Special Comments for Next Inspection					Department Comments					
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	Eric Carcoux			Previous Assistant's Name						
Next Inspection Date	12-May-20	14		Previous Inspection Date 15-Sep-2010						
Inspection Cycle (Default) (months)	21									
Comment										