					Brido	ge Culve	ert Insn	ection						
Bridge File Nun	umber 78442 -1 Bridge Culvert					,o Guire	Form Type			CUL1				
Year Built 1982							Lot No.		4					
Bridge or Town Name MONARCH							Inspector Name			Tom Carey				
Located Over LNI - IR								tor Class		BR CLS A				
Located On	C1 3.105					ant Name								
Water Body Cl./Year					Assistant Class									
Navigabil. Cl./Year					Inspection Date					18-Feb-2013				
			C 8 TWP 10 RC	SE 23 W4N	1		Data Entry By			Anne Roberts				
								ntry Date)	17-Mar-2013				
								ver Name		Garry Roberts				
Contract Main. Area CMA25							v Date		03-Mar-2013					
Clear Roadway	/Skew	15.8 / -	-					Reviewer	Name	Tim Davies				
AADT/Year								Review D		25-Mar-2013				
Road Classifica	ation	RAU-2					Follow-Up By							
Detour Length	(km)	3												
Bridge Culvert														
Number of Culv			1											
Pipe #	Barrel		Span	Rise (or E	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		-	1830		SP	100			152X51	3.0,3.0,3.0	ROUND		
Special Feature														
Special Feature	es Comi	ment												
					111	:1:4: (1		-1)						
Utility Attachme	nto				Οt	ilities (L	_ocatec	at)						
Telephone	1110						Gas 60 m			North				
Power							Municipal			NOTH				
Others	Light	t standards							No					
Remarks	Ligiti	Staridard	13				1 TODIC	robiem (1714)						
rtomanto				Ap	proa	ch Road	d / Emb	ankment						
								nation of		tion				
Horizontal Alignment				6	6	Is und	ls under North approach of file 78585							
Vertical Alignment				6	6	Irrigation ditch parallel to railway. Curve to South. On grade.								
Roadway Width (m) 15.800						July 31.								
Embankment				7	7									
			3.0											
(Height of Co		: 9)												
Guardrail (Y/N) Yes		Yes												
Approach Roa	Approach Road / Embankment General Rating					6								
						Upstre	am End							
Culvert Component					Last	st Now Explanation of Condition								
Direction			W											
End Treatment (Concrete, Steel, Others, None)														
Headwall			X	X										
Collar			Х	X										
Wingwalls			Χ	X										
(Shape:)														
Cutoff Wall			Χ	X										

78442 -1 Bridge Culvert

Culvert Common on t				am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			0 (00)
Invert Above/Below Stream Bed	BELOW			6m of SP bevel of original pipe.
Above/Below (mm)	200	_	Ι	
Scour Protection		7	7	Ingrown
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)			1	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dae Cu	lvert Barrel
Culvert Component		_		Explanation of Condition
(Pipe # : 1, Primary Span, Loca	່ tion Code: MAIN. Spa			, Rise (mm): 1830, Type: SP)
Barrel Last Accessible Date	09-Oct-1998		,	Lined with 1200 mm dia concrete pipe.
Special Features				
Special Feature				Unable to enter. 600mm to 800mm deep silt and ice - to restrictive. Viewed from ends.
(Type:)				No problems observed.
Special Feature				
(Type:)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)			1.4	
Longitudinal Seams		N	N	
Total No. of Cracked Rings		14	1 1 4	
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				1
Coating		5	5	At bevels.
Corrosion By Soil (Y/N)	No			1
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
3 (,	1			

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1830, Type: SP)						
Fish Passage Adequacy		Х	X							
Baffle		X	X							
(Type:)										
Waterway Adequacy		5	5							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N) No										
Barrel General Rating		N	N							
		D	ownstr	ream End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		E								
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	X							
Collar		Х	Х							
Wingwalls		Х	Х							
(Shape:)										
Cutoff Wall		Х	X							
Bevel End		7	7	6m of SP bevel of original pipe.						
Heaving (mm)	0									
Invert Above/Below Stream Bed BELOW										
Above/Below (mm) 200										
Scour Protection		7	7							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)			1							
Scour/Erosion		7	7							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	7	7							
		S	tructu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		8	8							
Bank Stability		6	6							
HWM (m below Top of Culvert) 1.8				No visible HWM						
Drift (Y/N)	•									
Channel Bottom Degrading/Aggrading NONE				Iced over.						
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		8	8							

				M	aintenance	Recommen	dations						
Inspector Recommendations	Ye	ear	Inspecto	r Comments			Department Co	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING	}												
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUT	OFF												
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/N (%)	ow) 55	55.6/55.6		Sufficiency Rating (Last/Now) (%)		t/Now)	58.7/58.6		st. Repl. Yr 2033		Maint. R	eqd. (Y/N)	No
Special Comments for Next Inspection							Department Comments						
Maintenance Reviewed By							Date				Estimated Tot	al 0	
Proposed Long-Term Strategy												·	
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name To		Tom Carey Previous					s Assistant's Name						
Next Inspection Date	18-Nov-2	2014				Previous	Inspection Date		18-May-2011				
Inspection Cycle (Default) (months) 21									,				
Comment													