					Bridg	e Culve	rt Insp	ection						
Bridge File Num	ber	75988 -1 Bridge Culvert				Form Type			CUL1					
Year Built 1984							Lot No			1				
Bridge or Town Name MORINVILLE							Inspec	tor Name		Melanie Johnson				
Located Over 2ND ORDER TRIBUTARY TO STRIVER, 6.65.6.2, WATERCRS-ST						SEON	· ·	tor Class		BR CLS B				
Located On 37:02 L1 41.878;37:02 R1 41.877							Assistant Name							
Water Body Cl./		31.02 L	1 41.070,37.02	107	'			ant Class						
Navigabil. Cl./Ye							· ·	tion Date		08-Nov-2011				
Legal Land Loca		SW/ SE	C 3 TWP 55 RO	2E 25 \M/	I N /I			Data Entry By Theresa Lacusta						
Longitude, Latitu			3:37, 53:42:58	3L 2J VV4	FIVI			ntry Date		19-Nov-2011				
Road Authority	uue		Transportation	(ΔΙΤ)			Reviewer Name			Eric Carcoux				
		(/11/)			Review Date			13-Nov-2011						
Contract Main. Area CMA09 Clear Roadway/Skew 28.3 /							Dept. Reviewer Name			Brent Herrick				
AADT/Year			2010 (A)				· ·	Review Da	ate	15-Dec-2011				
Road Classificat			11.8-110				Follow	-Up By						
Detour Length (6												
Bridge Culvert										ı				
Number of Culve			1											
	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		3240	2210		RPE		98.2		152X51	4.0	ELLIPSE		
Special Feature	 S						00.2							
Special Feature	s Comr	nent												
					114	:::::: /!		~4 \						
Utility Attachme	nte				Οti	ilities (L	ocated	at)						
Telephone	T .	& North	r/w				Gas							
Power	one South & North r/w 4 wires North r/w.							unicipal						
Others								olem (Y/N) No						
Remarks		g North	end.				1	(. , ,	1.10					
				A	pproac	ch Road	l / Emb	ankment						
					Last	Now	Explanation of Condition							
Horizontal Alignment			7	7	On/off ramp to interchange East of Hwy 2. Crest curve, limited sight distance.									
Vertical Alignment			7	7	Crest	curve, limi	tea sig	int distance.						
Roadway Width (m)		11.800												
Embankment			8	8										
Sideslope (:1) 3.0		3.0												
(Height of Cov	/er(m) :	11)												
Guardrail (Y/N)			Yes											
Approach Road	d / Emb	ankme	nt General Rat	ing	7	7								
						Upstre	om End							
Culvert Compo	nent				Last	Now		nation of	Condi	tion				
Direction	iliciit.				N	INOW	LAPIAI		Conai	LIOII				
End Treatment ((Concre	ete, Stee	el, STEEL				-							
Others, None) Headwall					X	X								
Collar			X	X										
Wingwalls			X	X										
(Shape:)														
Cutoff Wall					Х	X								
							1							

Outrant Comment				am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	400	7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800		Ι_	
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Sp			
Barrel Last Accessible Date	25-Feb-2002			1.2m crown to ice level. Ice to thin to walk on. Viewed from ends, appears to be some deflections & roof flattening.
Special Features				
Special Feature				
(Type:)		'		
Special Feature				
(Type:)				
Roof		N	N	(Local deformations all along roof, appears to be flattening. 95/02/10)
Measured Rise (mm)			- 11	(255ar asismations all along 1551, appears to be matterning. 55/52/15/
Measured At Ring No.				
Sag (mm)	98			(4.50/ /: 4.1.05/00/40)
Percent Sag	5			(4.5% estimated. 95/02/10)
Sidewall		N	N	(Span 3425 measured @ ring #8. 02/02/25)
Measured Span (mm)		IN	IN	(Flattening with slight reverse curve near c/l. 95/02/10)
Measured At Ring No.				
Deflection (mm)	98			(Estimated. 25/Feb/2002)
` ,				
Percent Deflection	3			(4.0. 4. (4.0.000/00/05)
Floor		N	N	(1.0m clear, roof to floor. 2002/02/25)
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams		N	N	(Unable to insp bottom row due to height of ice. (8th ring from North end, west side cracked, 135 mm of steel between cracks. 92/07/07)
Total No. of Cracked Rings	1			(Cracked seam below water level. 1000 water to roof, standing
Total No. of Rings with Two Cracked Seams				water. 2002/02/25)
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	N	(Bottom portion of pipe is discolored.
Corrosion By Soil (Y/N)				2002/02/25)
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

75988 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 3240	, Rise (mm): 2210, Type: RPE)					
Fish Passage Adequacy		6	6						
Baffle		N	N						
(Type:)									
Waterway Adequacy		6	6						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		3	3	General rating carried over since 95/02/10					
				ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction	CTEEL	S							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		Х	Х						
Wingwalls		X	Х						
(Shape:)		, ,,							
Cutoff Wall		Х	Х						
Bevel End		7	7	Rating based on visible portions.					
Heaving (mm)	100	•		Training based on visible portions.					
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	800								
Scour Protection	000	7	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 400)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	7	7						
			tructu	re Usage					
		Last		Explanation of Condition					
Channel (U/S and D/S)		1	111011						
Alignment		7	7	Drainage ditch - channelized.					
Bank Stability		4	4	Large slide - 90m long ar SE corner along hyw 2 road embankment.Slide is 10m W of channelgrassed and appears stable.					
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :									
(Fish Compensation Measure 2:				1					

Structure Usage								
Last Now Explanation of Condition								
Channel General Rating	4	4						

			Maintenance	Recommen	dations					
Inspector Recommendations		Year Inspector Comments			Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTOFF										
REPAIR SEAMS										
OTHER ACTION)11 Pe	erform Level II inspection & dev spection was 2002.	vater. Last						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 33) 33.3/33.3 Sufficiency Rating (L (%)		st/Now)	49.7/49.7	Est. Repl. Yr	2019	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection Monitor embankmen	cycle to 12	months u	e deflections25-Feb-2002 until pipe is dewatered and insp er along Hwy 2.	ected.	Department Comments					
Maintenance Reviewed By					Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Shane Hall			Previous	Previous Assistant's Name					
Next Inspection Date	08-Aug-2013			Previous	Previous Inspection Date 23-Mar-2010					
Inspection Cycle (Default) (months)	21									
Comment										