73039 -1 Bridge Culvert

Bridge Culvert Inspection														
Bridge File Num	nber	73039 -1 Bridge Culvert							CUL1					
Year Built 1962						Lot No.		2						
Bridge or Town	 G				Inspector Name		Wade Nanninga							
Located Over			G CREEK, 7.12.4.3, WATERCRS-ST			Inspector Class			BR CLS A					
Located On			1 19.555				Assistant Name							
Water Body CI./	Year						Assistant Class							
Navigabil. Cl./Ye								Inspection Date		10-Apr-2012				
Legal Land Location SE SEC 1							Data Entry By		Lisa Fairhurst					
							Data Entry Date		24-Apr-2012					
			ransportation (AIT)				Reviewer Name		Eric Carcoux					
Contract Main.	Area	CMA08					Review Date		17-Apr-2012					
Clear Roadway/Skew 11.2 / -30			0 deg. (LHF)) deg. (LHF)				Reviewer	Name	Brent Herrick				
AADT/Year 2,350 / 20		• •				Dept. Review Date		04-May-2012						
Road Classifica	tion	RAU-21	1.8-110				Follow-	Up By						
Detour Length (km)	3												
Bridge Culvert	Inform	ation												
Number of Culv	erts		1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		2019	2226		SPE		45.7		152X51	2.8	ELLIPSE		
Special Feature	s													
Special Feature	s Comr	ment												
					117	::::: /!		-1)						
Utility Attachme	nto				Uti	littles (L	ocated	at)						
Telephone	South	r/\\					Gas							
Power								Municipal						
Others	2 WITE	es North r/w.						m (Y/N)	No					
Remarks	BE tac	g installed @ top of South roof.					1 Toblom (1/14)							
Remarks	ומנ	y iristaliet	a		nnroad	ch Road	l / Emba	ankment						
				,	Last	Now		ation of		tion				
Horizontal Align	ment				7	7	Field &	Field & farm entrances each way.						
Vertical Alignment				6 6		Crest curve 300 m West. 450 m East. No passing to the west.								
Roadway Width	(m)		11.200											
Embankment					7	7	Near c	ulvert dov	vn to a	bout 2:1. Wide	transverse crad	ck over pipe		
Sideslope (:1)		3.5	3.5			previously sealed.							
(Height of Cov	· ·	3.8)												
Guardrail (Y/N)			Yes											
Approach Road	d / Emb	oankmen	t General Rat	ing	6	6								
						Upstre	am End							
Culvert Compo	nent				Last	Now	1	ation of	Condi	tion				
Direction					S									
End Treatment Others, None)	(Concre	ete, Steel	, STEEL			_								
Headwall					Х	Х								
Collar					Х	Х								
Wingwalls				Х	Х									
(Shape:)														

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		1	Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		5	5	End of barrel damaged from mower @ South end. Dam covered
Heaving (mm)	300			bevel floor/opening
	ABOVE			
Above/Below (mm)	250			
Scour Protection		4	4	Insufficient. About 200mm settlement along sides.(Piping under
(Type : RIP RAP)				bevel - photo. 12/Nov/2006)
(Avg. Rock Size(mm) : 250)				-
Scour/Erosion		4	4	
	V			Large basses dans @ inter-
Beavers (Y/N)	Yes		1	Large beaver dam @ inletphoto
Upstream End General Rating		4	4	
				livert Barrel
Culvert Component	tion Code Man			Explanation of Condition
(Pipe # : 1, Primary Span, Local		opan (mm): 2019	
Barrel Last Accessible Date	14-Jul-2010			1.0M water in barrel. Viewed from ends - looks good.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		6	6	
Measured Rise (mm)				
Measured At Ring No.	9			
Sag (mm)	-			Estimated
Percent Sag				
Sidewall		6	N	
Measured Span (mm)	2036			-
Measured At Ring No.	9			- 14 Jul 10
Deflection (mm)	17			
Percent Deflection	1			
Floor	'	N	N	0.7m water/silt.
	0	IN	IN	U./III wate/bill.
Bulge (mm)	0			-
Measured At Ring No.	No			-
Abrasion (Y/N)	No			
Circumferential Seams		8	N	-
Separation (mm)	0			
Longitudinal Seams		8	N	
Total No. of Cracked Rings	0			-
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			TN stagger.
Coating		6	N	Superficial corrosion.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

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Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 2019	, Rise (mm): 2226, Type: SPE)					
Ponding (Y/N)	Yes			400mm towards North end.					
Fish Passage Adequacy		5	5	(Inlet end heaved above S/B. 12/Nov/2006)					
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No			Drift @ U/S end.					
Silting (Y/N)	No								
Drift (Y/N)	Yes								
Barrel General Rating		6	N	GR 6 carried from Jul 2010					
<u> </u>									
				ream End					
Culvert Component		Last	Now	Explanation of Condition					
End Treatment (Concrete, Steel, Others, None)	STEEL	N							
Headwall		X	Х						
Collar		X	X						
Wingwalls		X	X						
(Shape:)		V	V						
Cutoff Wall		X	X						
Bevel End	I	6	6						
Heaving (mm)	100								
Invert Above/Below Stream Bed									
Above/Below (mm)	0		1						
Scour Protection		6	6						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 250)		1	1						
Scour/Erosion		6	6						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	6	6						
		S	tructu	re Usage					
		Last		Explanation of Condition					
Channel (U/S and D/S)									
Alignment		8	8						
Bank Stability		8	8						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	Yes			Drift at inlet.					
Channel Bottom Degrading/Aggrading									
Beavers (Y/N)	Yes								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		8	8						

		Mainte	enance Recommend	ations					
Inspector Recommendations	Year	Inspector Comments		Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION	2012	Remove beaverdam/drift f	rom U/S opening.						
INSTALL CONCRETE/STEEL LINING	3								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION	2012	Fillcrete gap under South rock riprap. (If not done)	bevel or armour with						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 66.7/55	Sufficiency Rating (Last (%)		66.8/61.7	Est. Repl. Yr	2028	Maint. Re	qd. (Y/N)	Yes
Special Consider concrete Comments for Next Inspection	end treatment to	keep South bevel down - Ju	uly 16 2010	Department Comments					
Maintenance Reviewed By				Date		E	stimated 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	10-Jan-2014 P			revious Inspection Date 16-Jul-2010					
Inspection Cycle (Default) (months)	21				'				
Comment									