Dridge File N						Culve	rt Inspectio	n					
Bridge File Number 77150 -1 Bridge Culvert							Form Type		CUL1	UL1			
Year Built		1970			Lot No.				1				
Bridge or Town Name CEREAL							Inspector Name		Jason Saly				
Located Over TRIBUTARY TO S				SOUNDING CREEK,			Inspector Class		BR CLS A				
		TERCRS-ST			Assistant Name								
Located On		886:06 C	1 19.880				Assistant Cl	ass					
Water Body C							Inspection Date 23-Nov-2010						
Navigabil. Cl./							Data Entry I	 Зу	Marcia Chave	Z			
Legal Land Lo			28 TWP 30 F	RGE 6 W4M			Data Entry I	Date	07-Jan-2011				
		7, 51:35:41				Reviewer N	ame	John O'Brien					
		ransportation	(AIT)			Review Dat	e	11-Dec-2010					
Contract Main. Area CMA22						Dept. Revie	wer Name	Chris Black					
Clear Roadway/Skew 9.4 /			200 (4)				Dept. Review Date		12-Jan-2011				
		220 / 200	` '				Follow-Up By						
Road Classific		RCU-210	10-110				·						
Detour Length		40											
Bridge Culve													
Number of Cu	1	1		Dia / Di					0 0 (1)	DI /CI I	Ole		
Pipe #	Barrel	S	pan	Rise (or Dia	a.) T	ype	Len	gth	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	2	 744	2007	R	RPP	33.6	 }	152X51	3.0	PIPE ARCH		
Special Featur			ERT TIMBER			· ·	00.0	<u> </u>	102/101		11.11.27.11.011		
Utility Attachments Telephone West ditch.				Utilit	ties (L	Gas							
Power						Municipal							
Others						Problem (Y/	N) No						
Remarks													
					oach:	Roac		ant					
Horizontal All	un mant						I / Embankm		(!				
			·		ast I	Now	Explanation	n of Condi					
Horizontal Align					est l	Now 8		n of Condi	urve both				
Vertical Alignn	nent		9.400		ast I	Now	Explanation Bottom of sa	n of Condi	urve both				
	nent		9.400		est l	Now 8	Explanation Bottom of sa	n of Condi	urve both				
Vertical Alignn	nent		9.400		est l	Now 8	Explanation Bottom of sa	n of Condi	urve both				
Vertical Alignn Roadway Wid	nent th (m)		9.400		9 7	8 7	Explanation Bottom of sa	n of Condi	urve both				
Vertical Alignn Roadway Wide Embankment	nent th (m) _:1)	.)			9 7	8 7	Explanation Bottom of sa	n of Condi	urve both				
Vertical Alignn Roadway Widt Embankment Sideslope (_	nent th (m) _:1) over(m):)			9 7	8 7	Explanation Bottom of sa	n of Condi	urve both				
Vertical Alignn Roadway Widt Embankment Sideslope (_ (Height of Co	nent th (m) _:1) over(m):		4.5 No		9 7	8 7	Explanation Bottom of sa	n of Condi	urve both				
Vertical Alignn Roadway Wide Embankment Sideslope (_ (Height of Co	nent th (m) _:1) over(m):		4.5 No		8 7	Now 8 7 N	Explanation Bottom of sidirections w	n of Condi	urve both				
Vertical Alignn Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Ro	nent th (m) _:1) over(m):		4.5 No	ing	9 7 8 U	Now 8 7 N	Explanation Bottom of sa directions w	n of Condi ag, crest cu ith fair sigh	urve both It distance.				
Vertical Alignn Roadway Wide Embankment Sideslope (_ (Height of Co	nent th (m) _:1) over(m):		4.5 No	ing	8	Now 8 7 N	Explanation Bottom of sidirections w	n of Condi ag, crest cu ith fair sigh	urve both It distance.				
Vertical Alignn Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Ro Culvert Comp	_:1) over(m): ad / Eml conent	pankment	4.5 No General Rat	ing	8	Now 8 7 N	Explanation Bottom of sa directions w	n of Condi ag, crest cu ith fair sigh	urve both It distance.				
Vertical Alignn Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Ro Culvert Comp Direction End Treatmen	_:1) over(m): ad / Eml conent	pankment	4.5 No General Rat	ing La	8	Now 8 7 N	Explanation Bottom of sa directions w	n of Condi ag, crest cu ith fair sigh	urve both It distance.				
Vertical Alignn Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Ro Culvert Comp Direction End Treatmen Others, None)	_:1) over(m): ad / Eml conent	pankment	4.5 No General Rat	ing La	8	Now 8 7 N pstree	Explanation Bottom of sa directions w	n of Condi ag, crest cu ith fair sigh	urve both It distance.				
Vertical Alignm Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Ro Culvert Comp Direction End Treatmen Others, None) Headwall	_:1) over(m): ad / Eml conent	pankment	4.5 No General Rat	ing La	7 Uast I	Now 8 7 N pstree Now	Explanation Bottom of sa directions w	n of Condi ag, crest cu ith fair sigh	urve both It distance.				
Vertical Alignm Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Ro Culvert Comp Direction End Treatmen Others, None) Headwall Collar	_:1) over(m): ad / Eml conent	pankment	4.5 No General Rat	ing La	7 Uast I	Now 8 7 N pstree Now X X	Explanation Bottom of sa directions w	n of Condi ag, crest cu ith fair sigh	urve both It distance.				

			Unstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	<u> </u>	6	6	Explanation of condition
Heaving (mm)	0			
Invert Above/Below Stream Bed	0			
	0			
Above/Below (mm)	0	7	l NI	
Scour Protection		7	N	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 250)			T	
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Upstream End General Rating		7	6	
		Bri	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN			·
Barrel Last Accessible Date	23-Nov-2010	- p = (.,. <u>-</u>	,,,,
Special Features				
Special Feature		6	6	150 x 200 TT struts @ 1.2 m O/C
(Type : VERT TIMBER STRUTS)			
Special Feature				
(Type:)				
Roof		6	6	Measured next to struts.
Measured Rise (mm)	1949			
Measured At Ring No.	8			
Sag (mm)	58			
Percent Sag	3			
Sidewall		2	2	Patch on N side of sidewall.
Measured Span (mm)	2799			Span measured at R3=2775 - 31mm; R5=2799 - 55mm=2%;
Measured At Ring No.	5			R7=2790 - 46mm; R9=2757 - 13mm.
Deflection (mm)	55			
Percent Deflection	2			
	_		5	
Floor	0	5	1 5	
Bulge (mm) Magaurad At Bing No.	0			
Measured At Ring No.	No			
Abrasion (Y/N)	No			
Circumferential Seams	1_	6	6	
Separation (mm)	0			
Longitudinal Seams		2	2	#5 - 13 cracks - 85mm of steel remains. #8 - 7 cracks - 47mm of steel remains.
Total No. of Cracked Rings	2			#8 - 7 cracks - 47mm of steel remains. All cracked seams in N side.
Total No. of Rings with Two Cracked Seams	0			No stagger at sidewall seam where cracks are present - 9 o'clock
Min. Remaining Steel Between Cracks (mm)	47			position. Roof only - 1N
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	5	Superficial corrosion.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

77150 -1 Bridge Culvert

		Bric	ige Cul	vert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 2744	, Rise (mm): 2007, Type: RPP)
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)				
Barrel General Rating			3	G.R. increased by 1 pt due to strut.
		D	ownstr	eam End
Culvert Component	ulvert Component		Now	Explanation of Condition
Direction				
End Treatment (Concrete, Steel, Others, None)	Treatment (Concrete, Steel, STEEL ers, None)			
Headwall	Headwall			
Collar			X	
Wingwalls			X	
(Shape:)				
Cutoff Wall			X	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed BELOW				
Above/Below (mm) 250				
Scour Protection			N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion			N	Riprap 1992.
Beavers (Y/N)	No			
Downstream End General Ratin	ng	6	6	
		S	tructur	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)			1	
Alignment			8	
Bank Stability			8	
HWM (m below Top of Culvert)				No visible HWM
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		8	8	

			Maintenance Recommendations	dations					
Inspector Recommendations	Year	Inspector Comments	ents	Department Comments	nents	_	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTOFF)FF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/Now) (%)	ow) 44.4/33.3		Sufficiency Rating (Last/Now) (%)	63.5/54.9	Est. Repl. Yr	2019	Maint. Reqd. (Y/N)		No
Special Ck'ng remains unch Comments for Next Inspection	nanged. Struts a	Ck'ng remains unchanged. Struts are in good condition.	.ر	Department Comments					
Maintenance Reviewed By				Date		Est	Estimated Total	0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Garry Roberts		Previous	Previous Assistant's Name					
Next Inspection Date	23-Feb-2014		Previous	Previous Inspection Date	29-Jan-2009				
Inspection Cycle (Default) (months)	39								
Comment									

					Mair	ntenance Re	commen	dations						
Inspector Recommendations Year Inspector Comments						Department C	Comme	nts		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS														
PLACE ADDITIONAL RIP RAP														
REMOVE DRIFT														
INSTALL CONCE	G													
INSTALL STRUTS														
INSTALL CONCRETE COLLAR/CUTOFF														
REPAIR SEAMS														
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
Structural Condi	w) 44.4/33.3 Sufficiency Rating (Last/Now (%)				Now)	63.5/54.9 Est. Repl. Yr 201			2019	Maint. Re	qd. (Y/N)	No		
Special Comments for Next Inspection	Ck'ng remains uncl	hanged.	nanged. Struts are in good condition.						Contir cycle.	nue to monitor Pipe appears	the crack to be stat	s in rings # 5 & tic since being	k 8 on regul strutted.	ar BIM
Maintenance Reviewed By Andrew Smikles						Date	13-De	ec-2011		Estimated Tota	1 0			
Proposed Long-Term Strategy		7 11 10 10 1	······································					Juic	10 20				0	
On 3-Year Program (Y/N)														
Proposed Action														
Previous Inspector's Name Gari			Garry Roberts Previou					us Assistant's Name						
Next Inspection D	Date	23-Feb	o-2014				Previous	s Inspection Date 29-Jan-2009						
•	(Default) (months)	39												
Comment	, , , , , , , , , , , , , , , , , , , ,													