Bridge Culvert Inspection													
Bridge File Nun	File Number 74648 -1 Bridge Culvert						Form Type		CULM				
Year Built		1981					Lot No.		3				
Bridge or Town	Name	Name HARDISTY					Inspector Na	ame	Jason Saly				
Located Over TRIBUTARY TO IRON CREEK, WATERCRS-ST				CREEK, 5.	16.1	,	Inspector Class Assistant Name		BR CLS A				
Located On	d On 872:06 C1 30.955						Assistant Class						
Water Body Cl.	/Year							09-Jun-2011					
Navigabil. Cl./Y	′ear				· · · · · · · · · · · · · · · · · · ·			Marcia Chave	7				
Legal Land Loc	cation	NW SEC	C 4 TWP 43 R	GE 10 W4M			Data Entry D	-	28-Jun-2011	-			
Longitude, Latit	tude	-111:24:	:24, 52:40:37				Reviewer Na		John O'Brien				
Road Authority	Transportation	(AIT)			Review Date		18-Jun-2011						
Contract Main. Area CMA16						Dept. Review		Chris Black					
Clear Roadway	//Skew	9.1 /					Dept. Review		30-Jun-2011				
AADT/Year		570 / 20	10 (A)				Follow-Up B						
Road Classifica	ation	RCU-20	9-110					3					
Detour Length	(km)	8											
Bridge Culvert		1											
Number of Culv	verts		2										
Pipe #	Barrel		Span	Rise (or Dia.)		Туре	Leng	gth	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	2740		SP	39.6		152X51	3.0	ROUND		
2	MAIN		-	2740		SP	39.6		152X51	3.0	ROUND		
Special Feature	es												
Utility Attachme Telephone Power Others Remarks	West		North 2 wire.			lities (L	Gas Municipal Problem (Y/N) No						
							d / Embankm						
					ast	Now	Explanation of Condition						
Horizontal Aligr					8	8	Farm entrance both directions, curves both directions.						
Roadway Width			9.100		8	8							
Embankment					7	7							
Sideslope (_:1)		3.0										
· · · ·							1						
(Height of Cover(m) : 2.5) Guardrail (Y/N)													
		: 2.5)	Yes										
				ing	7	7							
Guardrail (Y/N)				ing		Upstre	am End						
Guardrail (Y/N) Approach Roa Culvert Compo	ad / Emi onent	bankmer	nt General Rat	-		Upstre	am End Explanation	of Condi	tion				
Guardrail (Y/N) Approach Roa Culvert Compo (Pipe # : 1, Sp	ad / Emi onent	bankmer	nt General Rat	La	ast	Upstre	Explanation	of Condi	tion				
Guardrail (Y/N) Approach Roa Culvert Compo (Pipe # : 1, Sp Direction End Treatment	ad / Eml onent an Typ	bankmer e: Prima	nt General Rat	-	ast	Upstre	1	of Condi	tion				
Guardrail (Y/N) Approach Roa Culvert Compo (Pipe # : 1, Sp. Direction	ad / Eml onent an Typ	bankmer e: Prima	nt General Rat	La	ast	Upstre	Explanation	of Condi	tion				
Guardrail (Y/N) Approach Roa Culvert Compo (Pipe # : 1, Sp Direction End Treatment Others, None)	ad / Eml onent an Typ	bankmer e: Prima	nt General Rat	La	ast /	Upstrea Now	Explanation	of Condi	tion				
Guardrail (Y/N) Approach Roa Culvert Compo (Pipe # : 1, Sp Direction End Treatment Others, None) Headwall	ad / Eml onent an Typ	bankmer e: Prima	nt General Rat	- La	ast / X	Vpstree Now	Explanation	of Condi	tion				

				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	y Span)			
Cutoff Wall		X	X	
Bevel End		6	6	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		6	5	Fill settled along bevel 300mm.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		6	5	
Beavers (Y/N)	No		-	
Upstream End General Rating		6	5	
		Dei		Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S			, Rise (mm): 2740, Type: SP)
Barrel Last Accessible Date	26-Mar-2008		. <u>/-</u>	Water too deep. Viewed from ends; no problems observed.
Special Features				
Special Feature				
(Type:)				-
Special Feature				
(Type :) Roof		N	N	
		IN	IN	
Measured Rise (mm) Measured At Ring No.				-
Sag (mm)	0			-
Percent Sag	0			-
Sidewall		7	N	
Measured Span (mm)	2650	7	IN	(26Mar2008)
Measured At Ring No.	4			-
Deflection (mm)	90			
Percent Deflection	3			_ 3.3%
Floor	•	N	N	Deep water.
Bulge (mm)	0	ÎN	IN	
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		7	N	
Separation (mm)	0		IN	
Longitudinal Seams	•	7	N	
Total No. of Cracked Rings	0		IN	
	0			
Total No. of Rings with Two Cracked Seams	С С			-
Min. Remaining Steel Between Cracks (mm)				-
Proper Lap (Y/N)	No			-
Longitudinal Stagger (Y/N)	No			
Coating	1	6	6	As viewed from ends.
Corrosion By Soil (Y/N)	No			-
Corrosion By Water (Y/N)	Yes			

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa):	, Rise (mm): 2740, Type: SP)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N) No									
Fish Passage Adequacy		7	7						
Baffle		Х	X						
(Туре :)									
Waterway Adequacy		8	8						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		7	7	GR carried forward from 26Mar2008.					
			1	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	/ Span)	1							
Direction		E		South pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar		X	X						
Wingwalls		X	X						
(Shape :)			1						
Cutoff Wall		Х	X						
Bevel End		6	6	Farmer's fencing in disarray at bevel.					
Heaving (mm)	100								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	500		-						
Scour Protection		6	5	Bevel projects 300mm from fill.					
(Type : NATURAL)									
(Avg. Rock Size(mm) :)			-						
Scour/Erosion		6	5						
Beavers (Y/N)	No								
Downstream End General Ration	ng	6	5						
			Upstre	am End					
Culvert Component		Last Now		Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)	,							
Direction		W		North pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape :)			1						
Cutoff Wall		X	X						

		1		eam End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Bevel End		6	6						
Heaving (mm)	100								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm) 500									
Scour Protection		6	5	Bevel projects 300mm from fill.					
(Type : NATURAL)									
(Avg. Rock Size(mm) :)									
Scour/Erosion		6	5						
Beavers (Y/N)	No								
Upstream End General Rating		6	5						
J									
Output On				Ivert Barrel					
Culvert Component	antine Onder MAIN	Last	-	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo		Span (mm):	, Rise (mm): 2740, Type: SP)					
Barrel Last Accessible Date	26-Mar-2008			Water too deep to enter pipe. Viewed from ends; no problems observed.					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type :)		1							
Roof		N	N						
Measured Rise (mm)									
Measured At Ring No.									
Sag (mm)	0								
Percent Sag									
Sidewall		7	N						
Measured Span (mm)	2652			(26Mar2008)					
Measured At Ring No.	5								
Deflection (mm)	88			3.2%					
Percent Deflection	3			- 3.2 %					
Floor	-	N	N	Deep water.					
Bulge (mm)	0								
Measured At Ring No.	-								
Abrasion (Y/N)	Yes			1					
Circumferential Seams		7	N						
Separation (mm)	0								
Longitudinal Seams		7	N						
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams	0								
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	No								
Coating		6	6	As seen from ends.					
Corrosion By Soil (Y/N)	No	0	U						
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								

Bridge Inspection & Maintenance System (Web 2005)

74648 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2740, Type: SP)					
Ponding (Y/N)	No								
Fish Passage Adequacy			7						
Baffle		X	Х						
(Туре :)									
Waterway Adequacy		8	8						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		7	7	GR carried forward from 26Mar2008.					
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Direction	1	E		North pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar			X						
Wingwalls		X	Х						
(Shape :)									
Cutoff Wall		Х	X						
Bevel End		6	6	Farmer's fencing in disarray at bevel.					
Heaving (mm)	150								
Invert Above/Below Stream Bed	BELOW			-					
Above/Below (mm)	500								
Scour Protection		6	5	Bevel projects 300mm.					
(Type : NATURAL)				-					
(Avg. Rock Size(mm) :)									
Scour/Erosion		6	5						
Beavers (Y/N)	No								
Downstream End General Ration	ng	6	5						
		s	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7						
Bank Stability		7	7						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	NONE								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)		_						
Channel General Rating		7	7						

Maintenance Recommendations												
Inspector Recommendations		Year	Inspecto	r Comments		Department Comments					Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING	i											
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF											
REPAIR SEAMS												
OTHER ACTION		2011	Remove	barred wire fencing from	n E bevels.							
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No	ow)	77.8/77.	8	Sufficiency Rating (La (%)	ist/Now)	77.7/75.7	Est.	Repl. Yr	2044	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments						
Maintenance Reviewed By						Date			I	Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Bryan	Wai			Previous	ous Assistant's Name						
Next Inspection Date	09-Sep	-2014			Previous	Previous Inspection Date 26-Mar-2008						
Inspection Cycle (Default) (months)	39											
Comment												