					Bridg	e Culv	ert Insp	ection					
Bridge File Nur	mber	13861 -	-1 Bridge Culve		-110g	C GUIV	Form Type			CULM			
Year Built 1955						Lot No.		4					
Bridge or Town	n Name					Inspector Name		Wade Nanninga					
Located Over			TARY TO NOR	TH SASK	ATCHI	FWAN	Inspector Class		BR CLS B				
			, 6.20, WATERO				Assistant Name		DICCES D				
Located On		881:12	C1 4.288				Assistant Class						
Water Body Cl./Year						Inspection Date		10-Sep-2010					
Navigabil. Cl./Year						Data Entry By		Theresa Lacusta					
Legal Land Location NW SEC			C 26 TWP 55 RGF 9 W/4M				Data Entry Date		05-Oct-2010				
Longitude, Lati	tude	-111:14	:33, 53:47:13				Reviewer Name		Arnold Assenheimer				
-			Transportation (AIT)				Review Date		20-Sep-2010				
Contract Main. Area CMA08			-				Dept. Reviewer Name		· ·				
Clear Roadway	y/Skew	8.8 / 30	deg. (RHF)				Dept. Review Date		05-Oct-2010				
AADT/Year		720 / 20	009 (A)				Follow						
Road Classifica	ation	RCU-20	09-110					-17					
Detour Length		10											
Bridge Culver		ation											
Number of Cul	verts		2										
Pipe #	Barrel		Span	Rise (or I	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN		_	1829		MP		43.2		68X13	3.5	ROUND	
2	MAIN		_	1524		MP		35.4		68X13	3.5	ROUND	
Special Feature				1021		1411		100.1		00/(10		INCONE	
Special Feature		ment											
opoolar roatar	00 001111	none											
					Uti	ilities (L	ocated	at)					
Utility Attachme	ents												
Telephone	West	r/w.					Gas						
Power	2 wire	s OH W	est r/w.				Municipal						
Others							Problem (Y/N) No						
Remarks	File ta	ig install	ed in roof of 182										
				Aŗ	proac			ankment					
					Last	Now	Explanation of Condition						
Horizontal Alig					7	7	Grade to the North, no passing SB, curve to South.						
Vertical Alignm	ent				6	6							
Roadway Widtl	h (m)		8.500										
Embankment					8	8	1.4 m	cover over	South	n span			
Sideslope (:1)		3.0			1.4 m cover over South span. 1.0 m cover over North span.							
(Height of Co		: 1)	J. J										
Guardrail (Y/N)		- /	No										
Approach Roa	ad / Eml	oankme	nt General Rat	ing	6	6							
						Upstre	am End						
Culvert Comp	onent				Last	Now		ation of C	ondi	tion			
(Pipe # : 1, Sp	an Type	e: Prima	ary Span)										
Direction					Е		South	pipe.					
End Treatment Others, None)	(Concre	ete, Stee	el, STEEL										
Headwall					Х	Х							
Collar					Х	Х							

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)			1	
Scour/Erosion		7	7	
Beavers (Y/N)	Yes			Dirt build-up at East end.
Upstream End General Rating		7	7	
		Drie	dae Cu	lvert Barrel
Culvert Component		_	Now	Explanation of Condition
	L tion Code: MAIN, Sna			, Rise (mm): 1829, Type: MP)
		(<i>,</i> .	South pipe.
	12-3011-2007			1.0m water in barrel - shape looks good from ends.
		1	T	
		1	I	
•				
	I	6	6	
` ,				Estimate sag 4%.
			1	
		6	6	At c/l.
	1800			_
				1.6%-12-Jun-2007
Percent Deflection	2			
	I	N	N	Under water.
	0			
· ·				
	No			
Circumferential Seams	1	N	N	(2000/10/17)
Separation (mm)	90			
Longitudinal Seams	T	X	X	
(Shape:) Cutoff Wall Bevel End Heaving (mm) 100 Invert Above/Below Stream Bed BELOW Above/Below (mm) 200 Scour Protection (Type:RIP RAP) (Avg. Rock Size(mm): 250) Scour/Erosion Beavers (Y/N) Yes Upstream End General Rating Culvert Component (Pipe #: 1, Primary Span, Location Code: MAIN, Sparrel Last Accessible Date 12-Jun-2007 Special Features Special Feature (Type:) Special Feature (Type:) Roof Measured At Ring No. Sag (mm) Percent Sag Sidewall Measured At Ring No. Deflection (mm) 29 Percent Deflection 2 Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) No Circumferential Seams Separation (mm) 90				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel				
, ,				

		Bric	lge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1829, Type: MP)
Coating		6	6	Minor superficial rust lower 1/2.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			1.0m
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	Sign of barrel flowing full12-Jun-2007
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Direction		W		South pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		7	7	
(Type : RIP RAP)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
			U <u>pstre</u>	am End
Culvert Component		1		Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		Е		North pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Fish Passage Adequacy Baffle (Type:) Waterway Adequacy Icing (Y/N) No Silting (Y/N) No Drift (Y/N) No Barrel General Rating Culvert Component (Pipe #: 1, Span Type: Primary Span) Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls (Shape:) Cutoff Wall Bevel End Heaving (mm) 0 Invert Above/Below Stream Bed BELOW Above/Below (mm) 400 Scour Protection (Type: RIP RAP) (Avg. Rock Size(mm): 250) Scour/Erosion Beavers (Y/N) No Downstream End General Rating Culvert Component (Pipe #: 2, Span Type: Secondary Span) Direction End Treatment (Concrete, Steel, STEEL		Х	Х	
Collar		Х	Х	

13861 -1 Bridge Culvert

			Upstre	eam End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	ary Span)							
Wingwalls		X	X					
(Shape:)			_					
Cutoff Wall		X	X					
Bevel End		5	5	Tear at top of bevel from installation.				
Heaving (mm)	0							
Invert Above/Below Stream Bed								
Above/Below (mm)								
Scour Protection		7	7					
(Pipe # : 2, Span Type: Secondary Span) Wingwalls (Shape :) Cutoff Wall Bevel End Heaving (mm)								
(Avg. Rock Size(mm) : 250)								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Upstream End General Rating		5	5					
		Brid	dae Cu	lvert Barrel				
Culvert Component			Now	Explanation of Condition				
-	cation Code: MAIN. S			, Rise (mm): 1524, Type: MP)				
				North pipe.				
Special Features								
(Type:)								
Special Features Special Feature (Type:) Special Feature (Type:) Roof								
(Type:)								
Roof		6	6					
Measured Rise (mm)	1470			At c/l.				
Measured At Ring No.								
	54							
	4							
Sidewall		6	6					
Measured Span (mm)	1570			At c/l.				
				At Oil.				
	46							
Percent Deflection	3							
Floor		6	6					
	0							
	No							
		N	4	Separation of seams with infiltering fill.				
Separation (mm)	90							
Longitudinal Seams		Х	Х					
Total No. of Cracked Rings								
Total No. of Rings with Two Cracked Seams								
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)								
Longitudinal Stagger (Y/N)								

13861 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1524, Type: MP)
Coating		6	4	Pitting rust along floor
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	3	Hanging outlet
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		W		North pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	X	
Wingwalls		Х	X	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	100			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		7	7	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	5	6	
		S	Structu	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)		1	111011	
Alignment		7	7	
Bank Stability		7	7	

Structure Usage									
Last Now Explanation of Condition									
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading				Beaver dam 20 m West of West end & 30m U/S.					
Beavers (Y/N) Yes									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 : NONE)									
Channel General Rating			7						

13861 -1 Bridge Culvert

		Maintenance	Recommendat	tions					
Inspector Recommendations	Year	Inspector Comments		Department Comn	nents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS				•					
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/No. (%)	ow) 66.7/66	.7 Sufficiency Rating (Las	st/Now) 63	.9/57.3	Est. Repl. Yr	2019	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection]	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	Dave Lam		Previous As	ssistant's Name					
Next Inspection Date	10-Dec-2013		Previous Ins	spection Date	12-Jun-2007				
Inspection Cycle (Default) (months)	39								
Comment									