					Brido	e Culve	ert Inspe	ection					
Bridge File Number 73546 N-1 Bridge Culvert					Form Type			CULM					
Year Built 1998						Lot No.			4				
Bridge or Town Name STIRLING			IG				Inspect	or Name		Jason Rusu			
Located Over TRIBUTA		BUTARY TO KIPP COULEE, 11.9.6.2,			Inspect	tor Class		BR CLS A					
Located On 4:04 R1 3						Assista	nt Name						
Water Body Cl.	Voor	4.04 101	32.404					int Class					
Navigabil. Cl./Year							tion Date		23-Mar-2013				
Legal Land Location NW SEC 22			C 22 TWP 6 R0	3F 19 W4	.M		Data E			Lauren Korte			
		33, 49:29:38		Data Entry Date 11-Apr-2013									
		Transportation (AIT)					Reviewer Name Garry Roberts						
Contract Main. Area CMA24							Review Date 07-Apr-2013						
		2 dog (DUE)					Reviewer		Tim Davies				
			/ 2012 (A)					Review Da	ate	22-Apr-2013			
		RFD-41	, ,				Follow-	ор ву					
Detour Length	(km)	1											
Bridge Culver		nation											
Number of Cul	verts		2										
Pipe #			Rise (or I	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		-	2700		MP		40		125X26	2.8	ROUND	
2	MAIN	- 2700		2700		MP		40		125X26	2.8	ROUND	
Special Feature	es												
Special Feature	es Comi	ment											
					114	:::::: /!	_ocated	-4 \					
Utility Attachme	ents				Οι	ilities (L	_ocaleu	at)					
Telephone East Row.					Gas								
Power West Row.					Municip	nal							
Others						Probler		No					
Remarks								,					
				Aŗ	proa	ch Road	d / Emba	ankment					
					Last	Now	Explan	ation of	Condi	tion			
Horizontal Alig	nment				9	9							
Vertical Alignm					9	9							
Roadway Width (m)		12.400											
Embankment		7			7	6:1 @ directly over pipes.							
Sideslope (:1)		4.0											
(Height of Co	ver(m)	: 1.5)											
Guardrail (Y/N))		No										
Approach Roa	ad / Eml	bankmer	nt General Rat	General Rating 9 9									
						Upstre	am End						
Culvert Comp	onent				Last			ation of	Condi	tion			
(Pipe # : 1, Sp	an Typ	e: Prima	ry Span)										
Direction					Е		South p	oipe, Eas	t.				
End Treatment Others, None)	(Concre	ete, Stee	I, STEEL										
Headwall					Х	X							
Collar					X	Х							
Wingwalls					Х	X							
(Shape:)	(Shape:)												

			Lingtro	om End
Culvert Component		Last		am End Explanation of Condition
(Pipe # : 1, Span Type: Primary	, Snan\	Lasi	INOW	Explanation of Condition
Cutoff Wall	y Spail)	Х	Х	
Cuton wan		_ ^	_ ^	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed BELOW				Submerged.
Above/Below (mm)	150			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	8	
5 070				
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
				Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Sp		in (mm	1):	, Rise (mm): 2700, Type: MP)
Barrel Last Accessible Date	23-Mar-2013			South pipe. Average 1m deep ice.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	8	Inward.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			Estimate.
Percent Sag	0			
Sidewall		N	8	(Inward).
Measured Span (mm)	2640			(2640 span @ 2/3 L.
Measured At Ring No.				(2010 Spair) @ 270 E.
Deflection (mm)	60			
Percent Deflection	0			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	8	
Separation (mm)	30			
Longitudinal Seams		Х	X	
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)				
Coating		N	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

73546 N-1 Bridge Culvert

		Brid	dge Cu	lvert Barrel
•			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm	n):	, Rise (mm): 2700, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	8	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)	1		
Direction		W		South pipe, West.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	X	
Wingwalls		Х	X	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	8	8	
		1		am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		E		North pipe, East.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	X	

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)			_	
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
		Brid	dge Cu	ilvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2700, Type: MP)
Barrel Last Accessible Date	23-Mar-2013			North pipe. Average 1m deep ice.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	8	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	0			
Sidewall		N	8	(Inward)
Measured Span (mm)	2640			(2640 span @ 2/3 L.)
Measured At Ring No.				- (2040 Span & 2/3 L.)
Deflection (mm)	60			
Percent Deflection	0			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	8	
Separation (mm)	30			
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)				
Coating		N	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
	1			II.

		Brid	dae Cu	Ivert Barrel
Culvert Component		1	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2700, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	8	
		D	ownsti	ream End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction	, , ,	W		North pipe, West.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall			Х	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed BELOW				Submerged.
Above/Below (mm) 150				
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)		1		
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	45 deg turn 15m U/S, well armored.
Bank Stability		6	6	
HWM (m below Top of Culvert)	1.7			No visible HWM.
Drift (Y/N) No				
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		5	5	

		Maintenance	Recommendations						
Inspector Recommendations	Year	Inspector Comments		Department Comments					
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) 55.6/88	.9 Sufficiency Rating (Las	st/Now) 65.4/81.4	Est. Repl. Yr	2051	Maint. Re	qd. (Y/N)	No	
Special Comments for Next Inspection			Department Comments						
Maintenance Reviewed By			Date		ı	Estimated Tota	1 0		
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name						
	Garry Roberts 23-Dec-2014			17-Jun-2011	<u> </u>				
Next Inspection Date			Previous Assistant's Name Previous Inspection Date	17-Jun-2011	l				