13841 -1 Bridge Culvert

Bridge Culvert Inspection															
Bridge File Number 13841 -1			-1 Bridge Culvert				Form 7	Туре		CUL1					
Year Built		1976					Lot No			3					
Bridge or Town	Name	KEOMA	4				Inspec	tor Name		Jon Davies					
Located Over		WID - I	RRIGATION C,	WATERO	CRS-IC		Inspec	tor Class		BR CLS B					
Located On	ted On 9:02 C1 14.013				Assistant Name										
Water Body Cl.	/Year						Assista	ant Class							
Navigabil. Cl./Y	'ear						Inspec	tion Date		22-Nov-2011					
Legal Land Loc	ation	NW SE	C 26 TWP 25 R	RGE 27 W	/4M		Data Entry By			Alyssa Boynto	n				
Longitude, Lati	tude	-113:40	0:46, 51:09:49				Data Entry Date			09-Dec-2011					
•			Transportation	Transportation (AIT)				ver Name	!	Garry Roberts					
Contract Main.	Area	CMA29	)				Review Date			05-Dec-2011					
Clear Roadway/Skew 9 /						Dept. Reviewer Name			Tim Davies						
AADT/Year		2,630 /	2010 (A)				Dept. F	Review Da	ate	15-Dec-2011					
Road Classifica	ation	RAU-20	09-110				Follow-Up By								
Detour Length (km) 3															
Bridge Culvert Information															
Number of Culv	/erts		1	ı											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN		2607	2881		SPE	56.7			152X51	4.0	ELLIPSE			
Special Features															
Special Features Comment															
								-4\							
Utilities (Located at)  Utility Attachments															
Telephone			Gas												
Telephone West row. Power							Munici	nal							
Others	Fibre o	ore optics cable at East R/W					Problem (Y/N) Yes								
Remarks		•			s snac	aged mir									
Remarks Telus temporary above grade cable has snagged minor drift.  Approach Road / Embankment															
Last Now Explanation of Condition															
Horizontal Alignment				9	7	Short s	sag curve	with lir	mited sight dista	ance.					
Vertical Alignment					6	6									
Roadway Width	n (m)		14.000												
Embankment					7	8	2:1 ove	er pipe at	east.						
Sideslope (	_:1)		3.0												
(Height of Co	ver(m):	5.5)													
Guardrail (Y/N)		No													
Approach Road / Embankment General Rating			6	6											
	Upstream End														
<b>Culvert Comp</b>	onent				Last	Now	Explar	nation of	Condi	tion					
Direction			W												
End Treatment (Concrete, Steel, STEEL Others, None)															
Headwall			Х	Х											
Collar			Х	Х											
Wingwalls			Х	Х											
(Shape: )															
Cutoff Wall			X	X											

			111	
Outroot Occ				am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	1400	7	6	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300		1	
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Bri	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. S			· -
Barrel Last Accessible Date	22-Nov-2011		•	
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	7	Roof general shape is good.
Measured Rise (mm)	2820	14	'	Troof general shape is good.
` ,				Estimate.
Measured At Ring No.	6			Listinate.
Sag (mm)	61			
Percent Sag	2		Ι _	
Sidewall	l	N	7	
Measured Span (mm)	2675			
Measured At Ring No.	6			
Deflection (mm)	68			
Percent Deflection	3			
Floor		N	N	Ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	
Separation (mm)	0			
Longitudinal Seams		N	6	
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)	No			
Coating	0	4	4	SCALING WITH PITTING @ Haunches
Corrosion By Soil (Y/N)	Yes	4	4	Rust stains through bolt holes above water line.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel										
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	): 2607	, Rise (mm): 2881, Type: SPE)						
Fish Passage Adequacy		Х	5							
Baffle			Х							
(Type:)										
Waterway Adequacy			7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N) No										
Barrel General Rating			7							
Downstream End										
Culvert Component		Last	Now	Explanation of Condition						
Direction		E								
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	Х							
Collar		Х	Х							
Wingwalls			Х							
(Shape: )										
Cutoff Wall			X							
Bevel End			5	Bevel end overhanging 50mm						
Heaving (mm)	100									
Invert Above/Below Stream Bed ABOVE										
Above/Below (mm) 400										
Scour Protection		4	4	Mix of 200 + 500 mm rock. Scour protection not complete, Some						
(Type: RIP RAP)				displacement.						
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		4	4	500mm deep scour rock lined 1m from D/S invert.						
Beavers (Y/N)	No									
Downstream End General Rating			4							
		S	tructur	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			7							
Bank Stability			5	Sloughing @ SE above stream						
HWM (m below Top of Culvert)	1.5			HWM not visible.						
rift (Y/N) No										
Channel Bottom Degrading/Aggrading										
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 : NONE)										
Channel General Rating			7							

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			Maintenance Ro	ecommend	lations						
Inspector Recommendations	Year	Inspect	or Comments		Department Cor	mmen	ıts		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS					·						
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING	3										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUT	OFF										
REPAIR SEAMS											
OTHER ACTION	2012	Remov frozen i	e temporary telus line at U/S n minor drift.	west,							
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/N (%)	ow) 44.4/	44.4/77.8 Sufficiency Rating (La (%)		Now)	<b>54.6/70.2</b> Est. Repl. Yr 2021		2021	Maint. Re	qd. (Y/N)	Yes	
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	Rex Davidson			Previous	Previous Assistant's Name						
Next Inspection Date	22-Aug-2013	22-Aug-2013			Inspection Date						
Inspection Cycle (Default) (months)	21				•		25-May-2010				
Comment											