Bridge Culvert Inspection														
Bridge File Num	her	74076 -1	Bridge Culve	rt	Bridg	e Cuive				CUL1				
Year Built	DOI	74076 -1 Bridge Culvert					71			4				
Bridge or Town	Name		RF					tor Name		Jason Saly				
Located Over	1401110		REEK, 5.56, V	VATERCI	RS-ST			tor Class		BR CLS A				
Located On		2A:20 C		,,,,,			· ·	int Name		D. ( 020 / 1				
Water Body Cl./	Year						Assistant Class							
Navigabil. Cl./Ye							Inspection Date		22-Nov-2011					
				IM		Data Entry By		Marcia Chavez						
Legal Land Location SW SEC 4 TWP 41 RGE 26 W4M Longitude, Latitude -113:41:54, 52:29:49							Data Entry Date		21-Dec-2011					
Road Authority Alberta Transportation (AIT)							Reviewer Name		John O'Brien					
Contract Main. Area CMA19							Review Date		15-Dec-2011					
Clear Roadway/Skew 13.2 /							Dept. Reviewer Name							
AADT/Year 6,570 / 2010 (A)							· ·	Dept. Review Date		09-Jan-2012				
Road Classification RAU-213.4-110						Follow-Up By								
Detour Length (I		4						, ,						
Bridge Culvert		ation												
Number of Culve			1											
Pipe #	Barrel	(	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 [	MAIN	3	3495	3854		SPE		46.3		152X51 4.0 ELLIPS				
Special Features	Special Features													
Special Features	s Comr	ment												
								- 4)						
Utility Attachmer	oto				Ut	ilities (L	ocated	at)						
Telephone	East r	///			Gas									
Power 1 wire 20m West of c/l & 6 wire 20m Ea					act of a	~/I		Municipal						
Others	1 WIIC	20111 446	31 01 0/1 Q 0 WII	C ZOIII L			Problem (Y/N) No							
Remarks														
rtomanto				Aı	pproac	ch Road	l / Emb	ankment						
					Last		Explanation of Condition							
Horizontal Alignment			7	7	Box cu	Box culvert 30m East under railway track. Approach 60m SW &								
Vertical Alignment			8	8	150m North.									
Roadway Width (m) 13.000					Transv	Transverse crack in ACP width of road over pipe - sealed.								
Embankment					7	7								
Sideslope (:	1)		3.0											
(Height of Cov	er(m):	4)												
Guardrail (Y/N)			Yes				(560mm road top to c/l. 10Feb2010). Snow along shoulders.							
Approach Road	l / Emb	oankmen	t General Rat	ing	7	7								
						Upstre	am End							
Culvert Component					Now	Explan	ation of	Condi	tion					
Direction			E		-									
End Treatment ( Others, None)	Concre	ete, Steel	CONCRETE											
Headwall					X	X								
Collar	Collar			N	N	Snow covered.								
Wingwalls			X	X										
(Shape: )														
Cutoff Wall			X	X										

74076 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	5	
Heaving (mm)	200			
Invert Above/Below Stream Bed				
Above/Below (mm)	300			
Scour Protection		N	N	(Well vegetated. 20/Mar/2007). Snow covered.
(Type : RIP RAP)				(Non regulated: 25/Man/2557): Onen servica:
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	N	
			'`	
Beavers (Y/N)	No			
			Τ_	
Upstream End General Rating		5	5	
		Bri	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN.			· · ·
Barrel Last Accessible Date	22-Nov-2011			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	Not measured, ice.
Measured Rise (mm)	3720			
Measured At Ring No.	10			
Sag (mm)	134			
Percent Sag	4			(3.5%. 10Feb2010).
Sidewall		6	6	9 o'clock seam flattens R3-9, ok.
Measured Span (mm)	3632			
Measured At Ring No.	10			
Deflection (mm)	137			
Percent Deflection	4			3.9%
Floor	•	N	N	Ice.
Bulge (mm)		IN	I IN	106.
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		6	6	Leaking @ lower circ, seem holts at all rings
	0	Ь	0	Leaking @ lower circ. seam bolts at all rings.  Offset 4 corrugations at mid height.
Separation (mm)	0			
Longitudinal Seams	0	6	6	Leaking through bolt holes on lower S sidewall seam.
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		6	6	Soil side corrosion coming through lower bolt holes. Water side
Corrosion By Soil (Y/N)	Yes			superficial.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

74076 -1 Bridge Culvert

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe #: 1, Primary Span, Location Code: MAIN, Span (mm): 3495, Rise (mm): 3854, Type: SPE)										
Fish Passage Adequacy		7	7							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		9	8	(450mm @ midspan, gravel & clay. 03/09/04)						
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)										
Barrel General Rating			6							
_										
				ream End						
Culvert Component		Last	Now	Explanation of Condition						
Direction	OTEEL	W								
End Treatment (Concrete, Steel, Others, None)	SIEEL									
Headwall		Х	Х							
Collar		Х	Х							
Wingwalls		X	X							
(Shape: )										
Cutoff Wall		Х	Х							
Bevel End		7	7							
Heaving (mm) 100										
Invert Above/Below Stream Bed										
Above/Below (mm)	0									
Scour Protection		N	N	(Pipe is 700mm protruding from embankment. 10Feb2010).						
(Type : RIP RAP)				(Little scour protection. 20/Mar/2007). Snow covered.						
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		N	N	(Minor scour hole @ D/S end. 20/Mar/2007) Snow covered.						
Beavers (Y/N)	No									
Downstream End General Ratio	ng	5	5	From scour rating of 20/Mar/2007.						
		S	tructu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			6							
Bank Stability			6							
HWM (m below Top of Culvert)				No HWM visible.						
Drift (Y/N)	No									
Channel Bottom Degrading/Aggrading										
Beavers (Y/N)	No									
(Fish Compensation Measure 1 : NONE)										
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		6	6							

			Maintenance Rec	ommend						
Inspector Recommendations	Yea	ar Ir	nspector Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LIN	NG									
INSTALL STRUTS										_
INSTALL CONCRETE COLLAR/C	JTOFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Las (%)	t/Now) 66.	7/66.7	Sufficiency Rating (Last/No	ow)	70.8/67.0	Est. Repl. Yr	2040	Maint. Re	qd. (Y/N)	No
Special Check u/s bevel Comments for Next Inspection	heaving.				Department Comments					
Maintenance Reviewed By					Date		ı	Estimated Tota	I 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name Ow		ıva	F	Previous /	Assistant's Name					
Next Inspection Date	22-Aug-20	22-Aug-2013 Previ			Inspection Date					
Inspection Cycle (Default) (months) 21					•	10-Feb-201				
Comment	,									
Johnnont										