72058 -1 Bridge Culvert

					Bridg	e Culve	ert Insp	ection						
Bridge File Number 72058 -1 Bridge Culvert							Form Type			CUL1				
Year Built 1964							Lot No			4				
Bridge or Town Name DUCHES			ESS		Inspector Name			Tom Carey						
Located Over EID - ON		NE TREE CK,		Inspector Class			BR CLS A							
Located On 544:02 C			C1 8.691				Assista	ant Name						
Water Body Cl./Year								ant Class						
Navigabil. Cl./Year							Inspection Date			15-Feb-2010				
Legal Land Loc	ation	SW SE	C 14 TWP 20 R	RGE 14 W	/4M		Data E	Data Entry By Kelsey Roberts						
Longitude, Latit	tude	-111:50	0:52, 50:41:18	:52, 50:41:18					Data Entry Date 03-Mar-2010					
Road Authority		Alberta	a Transportation (AIT)					Reviewer Name Garry Roberts						
Contract Main.	Area	CMA23						v Date		23-Feb-2010				
Clear Roadway	//Skew	8.7 /					Dept. Reviewer Name			Lorenz Bohner	rt			
AADT/Year		1,520 /	2008 (A)				Dept. Review Date			08-Mar-2010				
Road Classifica	ation	RCU-2	09-110				Follow	-Up By						
Detour Length	(km)	3												
Bridge Culvert	Inform	ation												
Number of Culv	/erts		1											
		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN		1738	1920		SPE		40.2		152X51	2.8,2.8,2.8	ELLIPSE		
Special Feature	es													
Special Feature	es Comn	nent												
					1114	::::: /!	(-()						
Utility Attachme	onte				Uti	ilities (L	ocateo	at)						
Telephone		sida					Gas							
Telephone South side Power North side, 3 - wire					Municipal									
Others					Problem (Y/N) No									
Remarks						1 TODIC	111 (1/14)	110						
Romano				Aı	oproac	ch Road	l / Emb	ankment						
					Last	Now		Explanation of Condition						
Horizontal Aligr	nment				8	8	BOTTOM OF SAG CURVE							
Vertical Alignm	ent				5	5								
Roadway Width (m) 8.700														
Embankment					N	N	Snow							
Sideslope (_:1)		2.0				(SLUM	IPING SL	IGHTL	Y @ SOUTH)				
(Height of Co	ver (m)	: 6.5)												
Guardrail (Y/N)			No											
Approach Roa	d / Emb	ankme	nt General Rat	ing	5	5								
						Upstre	am End							
Culvert Compo	onent				Last	Now	Explar	nation of	Condi	tion				
Direction					N		NORTI	Н						
End Treatment (Concrete, Steel, STEEL Others, None)														
Headwall		Х	Х											
Collar			Х	Х										
Wingwalls			Х	Х										
(Shape:)														
Cutoff Wall					X	X								

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		8	N	Snow
(Type : RIP RAP)				
(Avg. Rock Size (mm) : 350)				
Scour/Erosion		8	N	
Beavers (Y/N)	No			
Upstream End General Rating		9	N	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1738	, Rise (mm): 1920, Type: SPE)
Barrel Last Accessible Date	15-Feb-2010			Has been lined with a 1600mm csp and grouted in. The ends have been exteded with 1800 CSP's sloped ends
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		9	9	ice on floor
Measured Rise (mm)	1595			
Measured At Ring No.	2			
Sag (mm)	5			
Percent Sag				
Sidewall		9	9	
Measured Span (mm)	1610			
Measured At Ring No.	2			
Deflection (mm)	10			
Percent Deflection				
Floor		9	N	ice 200mm Dp
Bulge (mm)	0			
Measured At Ring No.	2			
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	20			
Longitudinal Seams		Х	Х	All CSP
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)	Yes			
Coating		9	9	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel									
Culvert Component				Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			· •					
Ponding (Y/N)	No								
Baffle		5	5						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	8						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		8	9						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		S							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar		Х	X						
Wingwalls		X	X						
(Shape:)		T	1						
Cutoff Wall		Х	X						
Bevel End		9	9						
Heaving (mm)	0								
Invert Above/Below Stream Bed									
Above/Below (mm)	200		1						
Scour Protection		8	N	Snow					
(Type : RIP RAP)									
(Avg. Rock Size (mm) : 300)		0	N.						
Scour/Erosion		8	N						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	8	N						
				re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7						
Bank Stability		6	N	snow					
HWM (m below Top of Culvert)									
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	DEGRADING			Snow					
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :									
(Fish Compensation Measure 2 :	NONE)		1 _						
Channel General Rating		7	7						

ı	Structure Usage								
		Last	Now	Explanation of Condition					

			Maintenan	ce Recommend	lations					
Inspector Recommendations	Year Inspector Comments			Department Cor	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTO)FF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No. (%)	ow) 8	8.9/100.	Sufficiency Rating ((%)	Last/Now)	84.5/86.2	Est. Repl. Yr	2046	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 Tim D		Tim Davies Pre			vious Assistant's Name					
Next Inspection Date 15-M		15-May-2013 Pre-			Inspection Date	21-Feb-2007				
Inspection Cycle (Default) (months)	39									
Comment										