Bridge Culvert Inspection													
Bridge File Number 76242 -1 Bridge Culvert						Form T			CUL1				
Year Built 1992						Lot No.			4				
Bridge or Town Name TOMAHAWK							Inspect	tor Name		Kris Bosters			
Located Over TRIBUTARY TO NORTH SASKA RIVER, 6.134, WATERCRS-ST				ATCHEWAN		Inspector Class Assistant Name		BR CLS A Brian Cote					
Located On		624:02	C1 9.693		-		Assistant Class		Bhan Cole				
Water Body Cl.	/Year				-		Inspection Date		25-Oct-2012				
Navigabil. Cl./Y	ear						· · ·	Data Entry By		Theresa Lacus	sta		
Legal Land Loc	ation	SW SE	C 4 TWP 51 RC	GE 6 W5M	1			Data Entry Date 06-Nov-2012					
Longitude, Latit	ude	-114:49	:55, 53:22:01		E E E E E E E E E E E E E E E E E E E			Reviewer Name		Eric Carcoux			
Road Authority		Alberta	Transportation (AIT)				Review Date		04-Nov-2012				
Contract Main. Area CMA11			-				Dept. Reviewer Name						
Clear Roadway	/Skew	9.8/40					Dept. Review Date		13-Nov-2012				
AADT/Year		1,180 /	2011 (A)				Follow-						
Road Classifica	ation	RCU-20	09-110				_						
Detour Length ((km)	38											
Bridge Culvert	Inform	ation											
Number of Culv	/erts		1							I			
•	Barrel		Span	Rise (or I	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	1600		MP		51		68X13	2.8	ROUND	
Special Feature													
Special Feature	es Comi	ment											
					+	ilities (l	ocated	at)					
Utility Attachme	ents				01			aty					
Telephone	sout	h r/w					Gas						
Power		e N. r/w					Municipal						
		e S. r/w						n (Y/N)	No				
Others							. ,						
Remarks													
								ankment		_			
								ation of					
Horizontal Alignment Vertical Alignment				7 7	7	Typical entrance/access S.W. "T" intersection 60m S.E. Crest curves each way.							
Roadway Width	Roadway Width (m) 9.800												
	()												
Embankment					7	7	-						
Sideslope (3.5										
(Height of Co		5.5)	N1										
Guardrail (Y/N)			No										
Approach Roa	d / Eml	bankme	nt General Rat	ing	7	7							
							am End						
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion			
Direction End Treatment (Concrete, Steel, STEEL		N		-									
Others, None) Headwall				Х	X								
Collar					х Х	X							
Wingwalls				Х	X								
(Shape :)						Page							

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Cutoff Wall			X							
Bevel End			5	Bevel too long 3.5m side deflecting inward 200mm.						
Heaving (mm)	200									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	100									
Scour Protection		7	7							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		7	7							
Beavers (Y/N)	No									
Upstream End General Rating	Upstream End General Rating									
		Brid	dge Cu	livert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca		Span (mm):	, Rise (mm): 1600, Type: MP)						
Barrel Last Accessible Date	25-Oct-2012									
Special Features										
Special Feature										
(Type :)			_	_						
Special Feature										
(Type :)										
Roof		7	7							
Measured Rise (mm)	1551			@ last seam						
Measured At Ring No.										
Sag (mm)	50									
Percent Sag	3									
Sidewall		7	7							
Measured Span (mm)	1650			@ last seam						
Measured At Ring No.										
Deflection (mm)	50									
Percent Deflection	3									
Floor		N	6							
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		5	5	End section downstream - tight						
Separation (mm)	75			at top & 120 mm separation at the bottom.20jan03.						
				(End section (upstream) has uplifted & water is piping & entering at first seam. Mar 30, 2006.)						
Longitudinal Seams		X	X							
Total No. of Cracked Rings				1						
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)										
Longitudinal Stagger (Y/N)										

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

76242 -1 Bridge Culvert

		Brid	dae Cu	Ivert Barrel				
Culvert Component		1	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			, Rise (mm): 1600, Type: MP)				
Coating		4	4	Pitting rust lower 1/3.				
Corrosion By Soil (Y/N)	No		_					
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG ZERO								
Ponding (Y/N) No								
Fish Passage Adequacy		5	8					
Baffle			Х					
(Туре :)								
Waterway Adequacy		7	7					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		7	7					
		D	ownst	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		S						
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	X					
Collar		X	Х					
Wingwalls	Wingwalls							
(Shape :)			_					
Cutoff Wall		X	X					
Bevel End		5	5	Long barrel. Small dents caused by heavy equipment.				
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	500							
Scour Protection		7	7					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 300)								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Downstream End General Ration	ng	7	5					
		s	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		7	7					
Bank Stability		5	5					
HWM (m below Top of Culvert)			1	HWM not visible.				
Drift (Y/N)	No							

Structure Usage										
Last Now Explanation of Condition										
Channel Bottom Degrading/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 Comr		Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)		77.8/77.	8 Sufficiency Rating (Last/N (%)	low) 7	71.1/69.0	Est. Repl. Yr	2040	Maint. Re	qd. (Y/N)	No		
Special Comments for Next Inspection					Department Comments							
Maintenance Reviewed By					Date		E	Estimated Total	0			
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Arno		Arnold Assenheimer			Previous Assistant's Name							
Next Inspection Date 25-J		-2016		Previous Inspection Date 08-Jul-2009								
Inspection Cycle (Default) (months) 39												
Comment												