Bridge Culvert Inspection													
Bridge File Num	ber	75700 -1	Bridge Culve				Form Type			CULM			
Year Built		1963	0							2			
Bridge or Town	Name	WANHA	M					or Name		Russel Vanderschaaf			
Located Over		ART RIVER, 8 CRS-ST		Inspector Class Assistant Name			BR CLS B						
Located On 733:04 C1 8.277						Assistant (							
Water Body CI./	Year									08-Nov-2011			
Navigabil. Cl./Ye	ear									*to			
Legal Land Loca	ation	NW SEC	28 TWP 75 R	GE 3 W6	М					Theresa Lacusta 13-Dec-2011			
Longitude, Latitu	ude	-118:24:	06, 55:31:56				Data Entry Date Reviewer Name			Eric Carcoux			
Road Authority		Alberta 7	Fransportation	(AIT)			Review Date		20-Nov-2011				
Contract Main. A	Area	CMA05							Steve Pasquar	 ז			
Clear Roadway/	Skew	9.1 / 0 d	eg.					leview Date		11-Jan-2012	1		
AADT/Year		610 / 20	10 (A)				Follow-		<u> </u>	Consultant hire	ed and design	under wav	
Road Classificat	tion	RCU-20	9-110					0 0 0			a ana aooign		
Detour Length (H	km)	20											
Bridge Culvert		l l											
Number of Culve		2											
Pipe #	Barrel		Span	Rise (or I	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
	MAIN			3670		SP		81.1		152X51	4.0	ROUND	
2 1	MAIN			3990		SP		81.1		152X51	4.0	ROUND	
Special Features	s	(	CONC FLOOR										
Utility Attachments Telephone Power						ilities (L	Gas Municip	pal					
Others							Probler	n (Y/N) N	0				
Remarks													
					Last	Now	1	ankment ation of Co	ndi	tion			
Horizontal Aligni	ment				5	5	Explanation of Condition On a super. Bottom of deep sag.						
Vertical Alignme					5	5	on a super. Dottom of deep say.						
Roadway Width			9.100			Ū							
Embankment					7	7							
Sideslope (: (Height of Cov		10,1)	2.5				-						
Guardrail (Y/N)	01(11)		Yes										
Approach Road	d / Emb	bankmen	t General Rat	ing	5	5							
							am End						
Culvert Compo					Last	Now	Explan	ation of Co	ondi	tion			
(Pipe # : <b>1, Spa</b>	in Type	e: Secon	dary Span)										
Direction End Treatment (	Concre	ete, Steel	, CONCRETE		W		North c	ulvert.					
Others, None) Headwall					Х	X							
Collar					6	6							
Wingwalls					Х	X							
(Shape : )							1						
(						Page	1						

Upstream End									
Culvert Component		Last		Explanation of Condition					
(Pipe # : 1, Span Type: Second	lary Span)								
Cutoff Wall		N	Ν						
Bevel End		6	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	300								
Scour Protection		7	7						
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : <b>500</b> )									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Upstream End General Rating		6	6						
				Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Secondary Span, Lo		Span (I	mm):	, Rise (mm): 3670, Type: SP)					
Barrel Last Accessible Date	08-Nov-2011			Damage to S. end of drift.Driftcatcher frame.13 verticals standing photo					
Special Features									
Special Feature		4	3	25% of floor missingphoto					
(Type : CONC FLOOR)									
Special Feature									
(Type:)									
Roof		7	6						
Measured Rise (mm)	3671								
Measured At Ring No.	10								
Sag (mm)	1								
Percent Sag									
Sidewall		4	4						
Measured Span (mm)	3622								
Measured At Ring No.	10								
Deflection (mm)	48			-					
Percent Deflection	2								
Floor		7	5						
Bulge (mm)	0			-					
Measured At Ring No.				-					
Abrasion (Y/N)	No								
Circumferential Seams	1	7	6						
Separation (mm)	0								
Longitudinal Seams	I	4	4	106 mm steel remaining at ring 16.					
Total No. of Cracked Rings	13			Rings 4-17 cracked @ 8:00. 106mm steel remaining at ring 16.					
Total No. of Rings with Two Cracked Seams	13								
Min. Remaining Steel Between Cracks (mm)	106								
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	Yes								
Coating		4	4	Some pitting rust on floor.					
Corrosion By Soil (Y/N)				And soil.					
Corrosion By Water (Y/N)	Yes								

Bridge Inspection & Maintenance System (Web 2005)

75700 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 3670, Type: SP)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy		3	3	1.4m drop d/sphoto					
Baffle		Х	Х						
(Type:)		1	1						
Waterway Adequacy		4	5						
Icing (Y/N)	Yes								
Silting (Y/N)	No								
Drift (Y/N)	Yes								
Barrel General Rating		4	4						
			1	eam End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Second	ary Span)	-							
Direction End Treatment (Concrete, Steel,	OTHERS	E		North culvert.					
Others, None) Headwall		X	Х						
Collar			X						
Wingwalla		8	7	Timber					
Wingwalls (Shape : )		8	1	Imper					
Cutoff Wall		N	7						
Bevel End		X	X						
Heaving (mm)									
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	3000								
Scour Protection		8	5						
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : 500)			1						
Scour/Erosion		8	5						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	8	7						
				am End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Primary	v Span)								
Direction		W		South culvert. Covered in drift					
End Treatment (Concrete, Steel, Others, None)	CONCRETE		-						
Headwall		X	X						
Collar		6	N						
Wingwalls (Shape : )		Х	X						
Cutoff Wall		N	N						

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Primary	y Span)									
Bevel End		4	N							
Heaving (mm)	0									
Invert Above/Below Stream Bed										
Above/Below (mm)	0									
Scour Protection		8	N							
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size(mm) : 500)										
Scour/Erosion		8	N							
Beavers (Y/N)	No									
Upstream End General Rating		4	N	GR was 6 on 26-July-2005						
		Bri	d <u>ge Cu</u>	Ivert Barrel						
Culvert Component		Last		Explanation of Condition						
(Pipe # : 2, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	n):	, Rise (mm): 3990, Type: SP)						
Barrel Last Accessible Date	26-Jul-2005			Buldge in roof @ 1:00 between 13 & 16 with slight reverse curvature at ring 15. Concrete floor looks like it might be about 15% gone.						
				U/S end covered in drift, d/s end large dropoff. Inaccessible						
Special Features										
Special Feature		4	N							
(Type : CONC FLOOR)			-	_						
Special Feature				_						
(Type:)										
Roof		2	N	from 1-7 o'clock26-Jul-2005						
Measured Rise (mm)	3527									
Measured At Ring No.	15									
Sag (mm)	463									
Percent Sag	12									
Sidewall		5	N							
Measured Span (mm)	1205									
Measured At Ring No.	4									
Deflection (mm)										
Percent Deflection	5									
Floor		6	N							
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		6	N							
Separation (mm)										
Longitudinal Seams		2	N	Rings 3,4 cracking at 9 o'clock						
Total No. of Cracked Rings	8			Rings 5-10 @ 3 o'clock with 38mm steel remaining at ring 426-Jul-2005						
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		4	N	32 Rings in total and soil26-Jul-2005						
Corrosion By Soil (Y/N)										
Corrosion By Water (Y/N)	Yes			1						

Bridge Inspection & Maintenance System (Web 2005)

75700 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		1		Explanation of Condition					
(Pipe # : 2, Primary Span, Locat	tion Code: MAIN, Spa	an (mm	):	, Rise (mm): 3990, Type: SP)					
Camber POS/ZERO/NEG	POS								
Ponding (Y/N)	No								
Fish Passage Adequacy		3	N	600mm drop d/s.					
Baffle		Х	Х						
(Туре : )			1						
Waterway Adequacy		4	N						
Icing (Y/N)	Yes								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		2	2	Carried fwd from 26-Jul-2005					
				ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Primary	v Span)								
Direction		E		South culvert.					
End Treatment (Concrete, Steel, Others, None)	OTHERS								
Headwall	Headwall								
Collar		X	X						
Wingwalls		8	7	Timber.					
(Shape:)									
Cutoff Wall		N	7						
Bevel End	1	Х	X						
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	3000								
Scour Protection		5	6						
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : <b>500</b> )									
Scour/Erosion		5	6						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	8	6						
		s	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)	1								
Alignment		7	4	South culvert blocked by drift. Flow directed through one culvert.					
				Erosion 10m u/s. Large size. Sloughing banks.					
Bank Stability		4	5						
HWM (m below Top of Culvert)				HWM not visible					
Drift (Y/N)	Yes			South culvert blocked by drift.					
Channel Bottom Degrading/Aggrading	DEGRADING								
Beavers (Y/N)	Yes								

Structure Usage											
	Explanation of Condition										
(Fish Compensation Measure 1 : N	NONE)										
(Fish Compensation Measure 2 : N	NONE)										
Channel General Rating		4	4								

Maintenance Recommendations												
Inspector Recomm	nendations	Yea	ear	Inspector Comments		Department Corr	nments		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS												
PLACE ADDITION	NAL RIP RAP											
REMOVE DRIFT	ACCUMULATION	201	12	Remove drift from South culvert.								
INSTALL CONCR	ETE/STEEL LINING											
INSTALL STRUTS												
	ETE COLLAR/CUTOF	F										
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION					_							
Structural Condition Rating (Last/Now) (%)			22.2/22.2 Sufficiency Rating (Last/Nov (%)		2	<b>29.8/32.5</b> Est. Repl. Yr 207		2012	Maint. Reqd. (Y/N)		Yes	
Special Comments for Next Inspection						Department Comments						
Maintenance Rev	ewed By					Date			E	Estimated Total	0	
Proposed Long-To	erm Strategy					· · · · · ·			·			
On 3-Year Progra	m (Y/N)											
Proposed Action												
Previous Inspector's Name Russe			Russel Vanderschaaf Previou			s Assistant's Name						
Next Inspection Date 08-F			015	Prev	vious Ir	s Inspection Date 17-Sep-2010						
Inspection Cycle (Default) (months) 39												
Comment												