## Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Inspection													
Bridge File Number 76515 -1 Bridge Culvert			rt			Form Type			CULE				
Year Built/Lined 1967/1996			96				Lot No.			2			
Bridge or Town Name DEBOLT							Inspector Name			Russel Vanderschaaf			
Located Over LITTLE PUSKWASKAU RIV				U RIVER,	RIVER,			or Class		BR CLS B			
8.10.58.12.3, WATERO				CRS-ST			Assistant Name						
Located On	() (	676:02	51 2.411				Assistant Class						
Water Body CI./	Year						Inspection Date			16-Sep-2010			
Navigabil. CI./Ye	ear						Data Entry By			Theresa Lacus	sta		
Legal Land Loca	ation :	SW SEC	24 TWP 75 RC	3E 26 W5	IVI		Data Entry Date			29-Sep-2010			
Longitude, Latit	ude :						Reviewer Name			Arnold Assenheimer			
Road Authority Alberta T		Transportation (AIT)				Review Date			29-Sep-2010				
Contract Main. /	Area (						Dept. F	Reviewer	Name	Steve Pasquar	n		
Clear Roadway/	/Skew	12/-35					Dept. F	Review Da	ate	23-Nov-2010			
AAD1/Year		120 / 20	108 (E)				Follow-	Up By					
Road Classifica		RCU-20	9-110										
Detour Length (	<u>(KM)</u>	11 Mian											
Number of Culv	Intorna		1										
Pipe #	Barrel		I Span	Rise (or	Dia )	Type		Longth		Corr Profile	PI /Slab	Shape	
			бран		Dia.)	туре		Lengui			Thickness		
2	MAIN FU	ULL	-	3900		MP		67.5		125X26	3.5	ROUND	
2	D/S FUL LINER	-L	-	5540		SP		14.2		152X51	4.0	ROUND	
Special Feature	s											·	
Special Feature	s Comm	nent											
Litility Attachmo	nto				Uti	lities (L	ocated	at)					
Utility Attachme	nts	vido			Uti	lities (L	ocated	at)					
Utility Attachme Telephone	nts North s	side			Uti	lities (L	Gas	at)					
Utility Attachme Telephone Power Others	North s	side side 1 w	ire		Uti	lities (L	Gas Municip	at) Dal	No				
Utility Attachme Telephone Power Others Remarks	North s South s	side side 1 w	ire	MP 300M	Uti	lities (L	ocated Gas Municip Probler	at) Dal m (Y/N)	No				
Utility Attachme Telephone Power Others Remarks	North s South s ACCES EAST	side side 1 w SS TO N	rire AD16 FIREPUI	MP, 300M	Uti	lities (L	Gas Municip Probler	at) pal m (Y/N)	No				
Utility Attachme Telephone Power Others Remarks	North s South s ACCES EAST	side side 1 w SS TO N	rire AD16 FIREPUI	MP, 300M Ap	Uti	lities (L	Gas Municip Probler	at) Dal m (Y/N)	No				
Utility Attachme Telephone Power Others Remarks	North s South s ACCES EAST	side side 1 w SS TO N	/ire /ID16 FIREPUI	MP, 300M Ap	Uti oproad Last	lities (L ch Road	Gas Municip Probler	at) Dal n (Y/N) ankment ation of	No	ion			
Utility Attachme Telephone Power Others Remarks Horizontal Align	North s South s ACCES EAST	side side 1 w SS TO N	rire AD16 FIREPUI	MP, 300M Ap	Oproad Last	lities (L	Gas Municip Probler	at) Dal m (Y/N) ankment ation of 4, 150m v	No Condit vest	ion			
Utility Attachme Telephone Power Others Remarks Horizontal Align Vertical Alignme	ACCES EAST	side side 1 w SS TO N	/ire //D16 FIREPUI	MP, 300M Ap	Uti oproad Last 7 7	lities (L ch Road Now 7 7	Gas Municip Probler <b>/ Emba</b> <b>Explan</b> RR 264 Short s	at) Dal m (Y/N) ankment ation of I, 150m v hallow sa	No Condit vest ag.	ion			
Utility Attachme Telephone Power Others Remarks Horizontal Align Vertical Alignme	ACCES ACCES EAST	side side 1 w SS TO M	rire //D16 FIREPUI	MP, 300M Ap	Uti Dproad Last 7 7	lities (L	Gas Municip Probler <b>I / Emba</b> <b>Explan</b> RR 264 Short s	at) Dal m (Y/N) ankment ation of 4, 150m v hallow sa	No Condit vest ag.	ion			
Utility Attachme Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width	ACCES ACCES EAST	side side 1 w SS TO N	rire AD16 FIREPUI	MP, 300M Ag	Uti Dproad Last 7 7	lities (L ch Road Now 7 7	Gas Municip Probler I / Emba Explan RR 264 Short s	at) Dal m (Y/N) ankment ation of I, 150m v hallow sa	No Condit vest ag.	ion			
Utility Attachme Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment	ACCES ACCES EAST	side side 1 w SS TO N	rire //D16 FIREPUI	MP, 300M Ap	Uti Dproad Last 7 7 7	lities (L ch Road Now 7 7 7	Gas Municip Probler <b>/ Emba</b> <b>Explan</b> RR 264 Short s	at) Dal m (Y/N) ankment ation of I, 150m v hallow sa	No Condit vest ag.	ion			
Utility Attachme Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (	ACCES ACCES EAST	side side 1 w SS TO N	rire AD16 FIREPUI	MP, 300M Af	Uti Diproace Last 7 7 7	lities (L Now 7 7 7	Gas Municip Probler <b>I / Emba</b> <b>Explan</b> RR 264 Short s	at) Dal m (Y/N) ankment ation of 4, 150m v hallow sa	No Condit vest ag.	ion			
Utility Attachme Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (	ACCES EAST	side side 1 w SS TO N	rire AD16 FIREPUN 10.000 2.0	MP, 300M Ar	Uti Diproad Last 7 7 7	lities (L h Road Now 7 7 7 7	Gas Municip Probler <b>I / Emba</b> <b>Explan</b> RR 264 Short s	at) bal m (Y/N) ankment ation of I, 150m v hallow sa	No Condit vest ag.	ion			
Utility Attachme Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (	ACCES EAST	side side 1 w SS TO N	rire AD16 FIREPUR 10.000 2.0 No	MP, 300M Ar	Uti Diproace Last 7 7 7	lities (L Now 7 7 7	Gas Municip Probler <b>i / Emba</b> <b>Explan</b> RR 264 Short s	at) Dal n (Y/N) ankment ation of 4, 150m v hallow sa	No Condit vest ag.	ion			
Utility Attachme Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (	ACCES EAST	side side 1 w SS TO N	rire AD16 FIREPUN 10.000 2.0 No	MP, 300M Ap	Uti Dproad Last 7 7 7	lities (L Now 7 7 7	Gas Municip Probler <b>i / Emba</b> <b>Explan</b> RR 264 Short s	at) Dal n (Y/N) ankment ation of I, 150m v hallow sa	No Condit vest ag.	ion			
Utility Attachme Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (	ACCES ACCES EAST ament ent (m) :1) ver(m) : 0	side side 1 w SS TO N 6.8) ankmer	rire //D16 FIREPUI 10.000 2.0 No t General Rat	MP, 300M	Uti Dproad Last 7 7 7 7 7 7	lities (L Now 7 7 7	Gas Municip Probler I / Emba Explan RR 264 Short s	at) bal m (Y/N) ankment ation of I, 150m v hallow sa	No Condit vest ag.	ion			
Utility Attachme Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (	ACCES ACCES EAST ament ent (m) :1) ver(m) : 0	side side 1 w SS TO N 6.8) ankmer	rire AD16 FIREPUI 10.000 2.0 No ht General Rat	MP, 300M Ar	Uti Diproace Last 7 7 7 7	lities (L Now 7 7 7	Gas Municip Probler A / Emba Explan RR 264 Short s	at) Dal m (Y/N) ankment ation of 4, 150m v hallow sa	No Condit vest ag.	ion			
Utility Attachme Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (	ACCES EAST	side side 1 w SS TO N 6.8) ankmer	rire AD16 FIREPUI 10.000 2.0 No nt General Rat	MP, 300M Ag	Uti Diproad Last 7 7 7 7 7 7 2 7	lities (L Now 7 7 7 7	Gas Municip Probler <b>Explan</b> RR 264 Short s	at) bal m (Y/N) ankment ation of I, 150m v hallow sa	No Condit vest ag.	iion			
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Utility Attachme Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (	ACCES ACCES EAST ament ent (Concret	side side 1 w SS TO N 6.8) ankmer te, Stee	rire AD16 FIREPUN 10.000 2.0 No t General Rate	MP, 300M Ap ing	Uti Deproad Last 7 7 7 7 7 2 7 2 7 2 7 2 7	lities (L Now 7 7 7 7 Vpstree Now	Gas Municip Probler <b>Explan</b> RR 264 Short s	at) bal m (Y/N) ankment ation of t, 150m v hallow sa	No Condit vest ag. Condit	ion			
Utility Attachme Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (	ACCES ACCES EAST ament ent (m) (Concret	side side 1 w SS TO N SS TO N 6.8) ankmer te, Stee	rire AD16 FIREPUN 10.000 2.0 No t General Rat	MP, 300M Ap	Uti Diproad Last 7 7 7 7 7 7 7 7 7 7 7 7 7 7 1 7 7 7 1 7 7 1 7 1 7 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 1 7 1	lities (L Now 7 7 7 7 7 7 7 7 7 8 7 7 7 7	Gas Municip Probler <b>Explan</b> RR 264 Short s	at) bal m (Y/N) ankment ation of t, 150m v hallow sa ation of	Condit vest ag.	iion			

Alberta Transportation

Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
Wingwalls	Wingwalls								
(Shape : )									
Cutoff Wall			N						
Bevel End		6	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	600								
Scour Protection		6	6						
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : 450)									
Scour/Erosion		6	6						
Beavers (Y/N)	No								
Upstream End General Rating		6	6						
		Brid	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 3900, Type: MP)					
Barrel Last Accessible Date	16-Sep-2010			Water 3.1m from crown of pipe at u/s end.					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		9	7	Est sag due to silt					
Measured Rise (mm)									
Measured At Ring No.									
Sag (mm)	16								
Percent Sag	1								
Sidewall		9	7						
Measured Span (mm)	3916			40m from u/s end					
Measured At Ring No.									
Deflection (mm)	16								
Percent Deflection	1								
Floor		9	7						
Bulge (mm)	0								
Measured At Ring No.	2								
Abrasion (Y/N)	No								
Circumferential Seams		Х	4	5th seam damaged and catching driftphoto					
Separation (mm) 100				Missing couplers 1 and 2 seams.					
Longitudinal Seams			Х						
Total No. of Cracked Rings 0									
Total No. of Rings with Two Cracked Seams	0								
Min. Remaining Steel Between Cracks (mm)	0								
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)									
Coating		9	6						
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	No								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

76515 -1 Bridge Culvert

		Brid	Bridge Culvert Barrel							
Culvert Component	Last	Now	Explanation of Condition							
(Pipe # : 2, Secondary Span, L	ocation Code: MAIN	N, Span (n	nm):	, Rise (mm): 3900, Type: MP)						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									
Fish Passage Adequacy			4	1.5 height difference between liner and d/s extension.						
Baffle		Х	4							
(Туре:)		1	_							
Waterway Adequacy		9	X							
Icing (Y/N)	No			Approx 100mm thk at d/s and 300mm at u/s.						
Silting (Y/N)	Yes			Drift caught on bolts near center line.						
Drift (Y/N)	Yes									
Barrel General Rating		9	7							
		Bric	dge Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, L	ocation Code: D/S,	Span (mr	n):	, Rise (mm): 5540, Type: SP)						
Barrel Last Accessible Date	16-Sep-2010									
Special Features										
Special Feature										
(Type : )			_							
Special Feature										
(Type : )										
Roof		9	9	Est due to silt buildup						
Measured Rise (mm)	5591									
Measured At Ring No.	2									
Sag (mm)	51									
Percent Sag	1									
Sidewall		9	9							
Measured Span (mm)	5559									
Measured At Ring No.	2									
Deflection (mm)	19									
Percent Deflection	1									
Floor		9	9							
Bulge (mm)	0									
Measured At Ring No.	2									
Abrasion (Y/N)	No									
Circumferential Seams		X	9							
Separation (mm)										
Longitudinal Seams		9	9							
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)	0			2N						
Proper Lap (Y/N)	Yes									
Longitudinal Stagger (Y/N)	Yes									
Coating		9	9							
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	No									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

76515 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	ocation Code: D/S, S	pan (mr	n):	, Rise (mm): 5540, Type: SP)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy			4	1.5m height difference between liner and d/s extension					
Baffle		X	Х						
(Туре : )									
Waterway Adequacy		9	9						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel Extension General Ratir	a	9	9						
	.9								
	l.	D	ownst	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction	1	S		-					
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall		9	9						
Collar		9	9						
Wingwalls		9	9						
(Shape : )									
Cutoff Wall		9	9						
Bevel End		9	9						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	1000								
Scour Protection	1	9	9						
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : <b>800</b> )									
Scour/Erosion		9	9						
Beavers (Y/N)	No	-							
Downstream End General Ratio	na	9	9						
	U								
			Now	Explanation of Condition					
Channel (II/S and D/S)		Last	NOW						
Alignment		7	7						
Alignment				NO HWM VISIBLE					
Bank Stability		9	9	U/S beaver dam 30m					
HMM (m below Ton of Outron)									
	No								
Degrading/Aggrading	DEGRADING								
Beavers (Y/N)	Yes								

Structure Usage									
	Last Now Explanation of Condition								
(Fish Compensation Measure 1 : NONE)									
(Fish Compensation Measure 2 : NONE)									
Channel General Rating	7								

				Maintenance Re	ecommend	lations						
Inspector Recommendations		Year	Inspecto	r Comments		Department Com		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF											
REPAIR SEAMS												
OTHER ACTION		2010	Remove	bolts protruding from culve	rt liner							
OTHER ACTION		2010	Repair d	amaged seam								
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)		66.7/77.	8	Sufficiency Rating (Last/ (%)	Now)	63.0/78.7	Est.	Repl. Yr	2040	Maint. Rec	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments						
Maintenance Reviewed By						Date			E	stimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Previous Inspector's Name Laurie McCarron Pro			Previous	vious Assistant's Name Russel Vanderscha			erschaaf				
Next Inspection Date	16-Jun	-2015			Previous	Previous Inspection Date 07-Oct-2008						
Inspection Cycle (Default) (months)	57											
Comment												