Bridge Culvert Inspection														
Bridge File Number 08242		08242 -	242 -1 Bridge Culvert				Form Type			CUL1				
Year Built		1990					Lot No.			1				
Bridge or Town	Name (GADSB	ВҮ				Inspector Name			Dave Lam				
Located Over	I		ARTH CREEK	, 5.23, W	ATER	CRS-	Inspector Class			BR CLS A				
Located On		SI 601-04	C1 21 429				Assistant Name							
Water Body CL/	Vear	001.04	CT 21.430					nt Class						
Navigabil CL/Vear					Inspection Date		12-Jul-2011							
Legal Land Loc							Data Entry By		Marcia Chavez					
Legal Land Location SW SEC		5:24 52:26:02				Data Entry Date			16-Aug-2011					
Pood Authority Alberta		Transportation				Reviewer Name		John O'Brien						
Contract Main Area LINDEE						Review Date			27-Jul-2011					
Closr Roodwoy/Skow 12/45		12 / 45						Dept. Reviewer Name		Chris Black				
AADT/Year		100 / 20	43 deg. (ΚΠΓ)					Dept. Review Date		30-Aug-2011				
Road Classificat	tion I	RCU-20	2010 (A) 200G-00				- Follow-Up By							
Detour Length (km) 6	6					-							
Bridge Culvert Information														
Number of Culverts 1														
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	3670		SP		61		152X51	3.0	ROUND		
Special Feature	S													
Special Feature	s Comm	nent												
Litility Attachmo	nto				Uti	lities (L	ocated	at)						
Telephone In r/w to North														
Power	3 wires	15m N	orth of c/l				Municipal							
Others	0 WIICO							Problem (Y/N) No						
Remarks														
Romanio				A	pproad	ch Road	l / Emba	ankment						
				Last	Now	Explanation of Condition								
Horizontal Alignment				7 7			Pipe through int R.R. 16-4.							
Vertical Alignment														
Roadway Width (m)		12.000												
Embankment				7	3	1.0m deep crevices at various spots on roadway shoulder around								
Sideslope (:1)		3.0			potn devel enas (photo).								
(Height of Cov	ver(m) : '	1)												
Guardrail (Y/N)			No											
Approach Road	d / Emba	ankme	nt General Rat	ing	7	3								
						Upstre	am End							
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion				
Direction				N		Northwest.								
End Treatment (Concrete, Steel, CONCRETE Others, None)														
Headwall				8	8									
Collar				8	8									
Wingwalls				X	X									
(Shape :)														
Cutoff Wall				N	Ν	Subme	rged.							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

08242 -1 Bridge Culvert

Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		8	8						
Heaving (mm) 0									
Invert Above/Below Stream Bed	BELOW			(08Oct2009). Under water.					
Above/Below (mm)	600								
Scour Protection		4 3		Riprap sloughed up to 300mm around collar.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)			1						
Scour/Erosion			3	Erosion from road drainage creating deep crevices, but not as a result of insufficient riprap.					
Beavers (Y/N)	No								
Upstream End General Rating	• •	8	3						
Culvort Component		Brid	age Cu	Vert Balife Explanation of Condition					
(Dipo # : 1 Primary Span Loop	tion Code: MAIN Sna	Last	INOW	Explanation of Condition					
	COUE. MAIN, Spa	an (mm):		, KISE (IIIII): 30/U, Type: 5P)					
Barrei Last Accessible Date	22-Mar-2006			vvater 0.9m deep, viewed from ends. No problems visible.					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		8	8						
Measured Rise (mm)									
Measured At Ring No.				(Est. sag 60mm. 22Mar2006).					
Sag (mm)	60								
Percent Sag	2								
Sidewall		8	N	(22Mar2006)					
Measured Span (mm)	3730								
Measured At Ring No.	9								
Deflection (mm)	60			1.6%					
Percent Deflection	2								
Floor		N	N						
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		N	N						
Separation (mm)	0								
Longitudinal Seams		N	N						
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)	Yes								
Longitudinal Stagger (Y/N)	Yes		_						
Coating		7	7						
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Location Code: MAIN, Span			ı):	, Rise (mm): 3670, Type: SP)						
Ponding (Y/N)	No									
Fish Passage Adequacy			8							
Baffle		X	Х							
(Type:)										
Waterway Adequacy		8	8							
Icing (Y/N)	No			(22Mar2006) Under water						
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		N	N	G.R. was "8" from 22/Mar/2006.						
		D	ownstr	ream End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		S		Southeast.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	X							
Collar	Collar									
Wingwalls		Х	Х							
(Shape :)										
Cutoff Wall			X							
Bevel End			7	(08Oct2009). Under water.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	1000									
Scour Protection		5	3	-						
(Type : RIP RAP)				-						
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		5	3	Surface erosion off road causing deep voids & undermining (photo).						
Beavers (Y/N)	No									
Downstream End General Ration	ng	5	3							
		s	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			8							
Bank Stability			5	Vertical banks U/S & D/S.						
HWM (m below Top of Culvert) 1.7				(22Mar2006). Grass in fence.						
Drift (Y/N) No										
Channel Bottom AGGRADING Degrading/Aggrading				(22Mar2006). Under water.						
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)			-						
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating			8							

Alberta Transportation

Maintenance Recommendations													
Inspector Recommendations			Year	Inspector Comments	Department Comments				Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP			2011	Add all aroun both bevels.									
REMOVE DRIFT	REMOVE DRIFT ACCUMULATION												
INSTALL CONCR	ETE/STEEL LINING												
INSTALL STRUTS	INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTOFF													
REPAIR SEAMS													
OTHER ACTION			2011	Repair crevices/voids in embankment a ends.	at both								
OTHER ACTION	OTHER ACTION												
OTHER ACTION	OTHER ACTION												
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/Now) (%)			55.6/55.	.6 Sufficiency Rating (Last/Nov (%)	w) 7	0.7/52.9	Est. Repl. Yr	st. Repl. Yr 2052		qd. (Y/N)	Yes		
Special Observe inlet slope protection for possible undermining. Observe inlet slope protection for possible undermining.						Department Comments							
Maintenance Reviewed By						Date		E	Estimated Total	otal 0			
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Owen		Owen S	wen Salava Pr			ous Assistant's Name							
Next Inspection Date 12-C		12-Oct-	2-Oct-2014			bus Inspection Date 08-Oct-2009							
Inspection Cycle (Default) (months) 39													
Comment													