D.I. El N		77000 14			ridge	e Culve	ert Inspect			OLU M			
Bridge File Nur	mber	77863 W-1 Bridge Culvert						Form Type CULN					
Year Built	. N = ::	1974					Lot No.			Todd Warehoweld			
Bridge or Town	1 Name						Inspector Name Inspector Class			Todd Warshawski			
Located Over		8.11.107	ARY TO WOLI 7.26.2, WATER	CREEK,			Assistant			BR CLS B			
Located On		16:06 L ²	1 25.397		Assistant Class								
Water Body Cl.	./Year						Inspection Date			10-Aug-2012			
Navigabil. Cl./Y	Navigabil. Cl./Year					Data Entry By			Theresa Lacusta				
Legal Land Location NW SEC 18 TWP 53 RGE 15 W					M		Data Entry Date			22-Aug-2012			
Longitude, Latitude -116:12:42, 53:34:49							Reviewer	•		Eric Carcoux			
Road Authority Alberta Transportation (AIT)				(AIT)		Review Date			21-Aug-2012				
	Contract Main. Area CMA13					Dept. Reviewer Name							
Clear Roadway	y/Skew		deg. (RHF)			Dept. Review Date			30-Aug-2012				
AADT/Year		8,250 / 2					Follow-Up	Ву					
Road Classifica		RAD-41	2.4-120				_						
Detour Length		1											
Bridge Culver													
Number of Culv			2	D: / D:	,	_	1.			0 5 "	DI (01 1		
Pipe #	Barrel	;	Span	Rise (or Dia	a.)	Type	Le	ength		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		1724	1901		SPE	6.	1		152X51	2.8	ELLIPSE	
2	MAIN		1724	1901		SPE	6.	61		152X51	2.8	ELLIPSE	
Special Feature	es						'						
Special Feature	es Comi	ment											
·													
					Util	lities (L	Located at)					
Utility Attachme	ents												
Telephone			Gas										
Power	100m	n West. X hwy.					Municipal						
Others							Problem ((Y/N)	No				
Remarks	File ta	ig on Eas	t pipe (South).			h Daa	d / Embani						
					ast	Now	d / Emban		Condi	tion			
Horizontal Aligi	nment				7	7	Intersection 30 m east with local road.						
Vertical Alignm					8	8			oaot	Will lood load			
Roadway Widtl			12.500										
Troduitay Trial			12.000										
Embankment					5	6							
Sideslope (3.0										
(Height of Co		5)											
Guardrail (Y/N) Yes													
Guardiali (1/N)	,		1.00										
Approach Roa		oankmer		ing	7	7							
		oankmer		ing			eam End						
Approach Roa	ad / Eml	oankmer				Upstre	am End	ion of	Condi	tion			
	ad / Eml		nt General Rat			Upstre		ion of	Condi	tion			
Approach Roa	ad / Eml		nt General Rat		ast	Upstre	Explanat		Condi	tion			
Approach Roa Culvert Comp (Pipe # : 1, Sp	onent	e: Prima	nt General Rat	L	ast	Upstre			Condi	tion			
Approach Roa Culvert Compo (Pipe # : 1, Sp Direction End Treatment	onent	e: Prima	nt General Rat	L	ast	Upstre	Explanat		Condi	tion			
Approach Roa Culvert Composition (Pipe # : 1, Sp Direction End Treatment Others, None)	onent	e: Prima	nt General Rat	L	ast	Upstre Now	Explanat		Condi	tion			
Approach Roa Culvert Component (Pipe # : 1, Sp Direction End Treatment Others, None) Headwall	onent	e: Prima	nt General Rat	L	ast	Upstre Now	Explanat		Condi	tion			

			Lingtro	om End
Culvert Component				am End Explanation of Condition
(Pipe # : 1, Span Type: Primary	(Span)	Last	INOW	Explanation of Condition
Cutoff Wall	y Spail)	Х	V	
Cuton wan		^	X	
Bevel End		4	4	SW perforations & loss of section.
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		5	5	
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		1		vert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca		ın (mm): 1724	
Barrel Last Accessible Date	09-Nov-1994			East pipe. Limited view from ends.
Special Features	·			
Special Feature				
(Type:)		1		
Special Feature				
(Type:)				
Roof		N	N	Section viewed is heavily corroded20-Nov-2008
Measured Rise (mm)	1880			
Measured At Ring No.				(1.1%. 09/Nov/1994)
Sag (mm)	21			
Percent Sag	1			
Sidewall		N	N	Limited view. Heavy corrosion on walls.
Measured Span (mm)	1745			
Measured At Ring No.				(1.2%. 09/Nov/1994)
Deflection (mm)	21			
Percent Deflection	1			
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				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	N	Extensive corrosion with pitting on upper wallsSep, 2010
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			

77863 W-1 Bridge Culvert

		Brid	dge Cul	vert Barrel
Culvert Component				Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1724	, Rise (mm): 1901, Type: SPE)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		N	N	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		N	N	G.R. was "6" on 09/Nov/1994.
				eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction	I	N		East pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape:)			1	
Cutoff Wall		Х	X	
Bevel End	I	6	6	
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)	200	_	I _	
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250) Scour/Erosion		7	7	
	N	7	7	
Beavers (Y/N)	No		1	
Downstream End General Ratio	ng	6	6	
Culvert Composition				am End
Culvert Component	lant Chan	Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			West vins
End Treatment (Concrete, Steel, Others, None)	STEEL	S		West pipe.
Headwall		Х	Х	
Collar		Х	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		X	X	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	2000		_	
Scour Protection		7	7	
(Type : NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brio	dge Cu	Ivert Barrel
Culvert Component		Last		Explanation of Condition
	cation Code: MAIN, S	Span (r	nm): 17	724, Rise (mm): 1901, Type: SPE)
Barrel Last Accessible Date	10-Aug-2012			West pipe
Special Features				
Special Feature				
(Type:)		1		
Special Feature				
(Type:)		I		
Roof		7	7	
Measured Rise (mm)	1900	,	'	Ring 8 from U/S.
Measured At Ring No.	8			Construction damage last ring.
Sag (mm)	1		West pipe 7 Ring 8 from U/S. Construction damage last ring.	
Percent Sag	0			
Sidewall		7	7	
Measured Span (mm)	1722			
Measured At Ring No.	8			
Deflection (mm)	2			
Percent Deflection	_			
Floor		7	7	
Bulge (mm)		,	'	-
Measured At Ring No.	8			
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings			'	-
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
	140	6	6	
Coating Corrosion By Soil (Y/N)		U	U	
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

		Brio	dge Cu	Ivert Barrel
Culvert Component			T -	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm): 17	724, Rise (mm): 1901, Type: SPE)
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	Overflow pipe
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
				Total Control
Culvert Component			1	eam End Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)	Lasi	INOW	Explanation of Condition
	iary Spari)	NI.		West vine
Direction Comments Office	OTEEL	N		West pipe
End Treatment (Concrete, Steel, Others, None)	STEEL		1	
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1000			
Scour Protection		7	7	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratio	na .	7	7	
Download Gam End Contra Ham	-9			
				re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S) Alignment		6	6	Bends gradually West.
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			I IVVIVI HOL VISIDIC.
Channel Bottom	NONE			
Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		6	6	

Bridge Inspection & Maintenance System (Web 2005)

		Maintenance	Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department Con	Department Comments					
SHOTCRETE REPAIRS		·			Target Year				
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	3								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION	2013	Dewater for Level 2 inspection.							
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) 77.8/7	7.8 Sufficiency Rating (La (%)	st/Now) 70.5/70.4	Est. Repl. Yr 2020	Maint. Re	qd. (Y/N)	Yes		
Special Main pipe has not Comments for Next Inspection	peen inspected	since 1994, dewater for Level 2 insp	Department Comments						
Maintenance Reviewed By			Date		Estimated Tota	1 0			
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Todd Warsha	wski	Previous Assistant's Name						
Next Inspection Date	10-May-2014		Previous Inspection Date	27-Sep-2010					
Inspection Cycle (Default) (months)	21								
Comment									