					Bridge	e Culve	ert Inspection					
Bridge File Number		73538 -1 Bridge Culvert					Form Type	CULM	CULM			
Year Built		1958					Lot No.	4				
Bridge or Town	Name	IRON S	SPRINGS				Inspector Name	Jason Rusu				
Located Over		LNI - IF	RRIGATION C, V	NATERC	RS-IC		Inspector Class	BR CLS A	BR CLS A			
Located On		25:02 (21 37.946				Assistant Name					
Water Body Cl./Year							Assistant Class					
Navigabil. Cl./Year							Inspection Date	09-Dec-2011				
Legal Land Location S		SW SE	C 28 TWP 11 R	GE 20 W	/4M		Data Entry By	Anne Roberts	Anne Roberts			
Longitude, Latitude -112):41, 49:56:06				Data Entry Date	20-Jan-2012				
Road Authority A		Alberta	Transportation	(AIT)			Reviewer Name	Reviewer Name Garry Roberts				
Contract Main. Area CMA			5				Review Date	26-Dec-2011	26-Dec-2011			
Clear Roadway	/Skew	11 / 30	deg. (RHF)				Dept. Reviewer Nam	e Tim Davies				
AADT/Year		830 / 2	010 (A)				Dept. Review Date	23-Jan-2012				
Road Classifica	ation	RAU-2	11.8-110				Follow-Up By					
Detour Length	(km)	3										
Bridge Culvert	Inform	ation										
Number of Culv	/erts		2									
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре	Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		1829	1118		FP	36.6	68X13		ARCH		
2	MAIN		-	1400		MP	36.6	68X13		ROUND		
Special Feature	es											
Special Features Comment												
					Util	ities (L	ocated at)					
							0					
Telephone	vvest	side					Gas					
Othoro	Cupor	not Ma	at Daw									
Demarka												
Remarks				٨	nnroac	h Poar	/ Embankmont					
						Now	Explanation of Con	lition				
Horizontal Aligr	nment		I		9	9	Several cracks acros	s road in				
Vertical Alignme	ent				8	8	vicinity of pipes. seal	ed				
5							Entrance at northeas	t.				
							Level over pipes ther	3.1				
Roadway Width	n (m)		11 000				Level over pipes the	5.1.				
	. ()		11.000									
Embankment					8	7						
Sideslope (_:1)		3.0									
(Height of Co	ver(m) :	1.2)										
Guardrail (Y/N)			No									
Approach Roa	d / Emb	bankme	nt General Rat	ing	8	8						
						Up <u>stre</u>	am End					
Culvert Compo	onent				Last	Now	Explanation of Con	lition				
(Pipe # : 1, Sp	an Type	e: Prima	ary Span)									
Direction					E		North culvert, East er	nd.				
End Treatment (Concrete, Steel, CONCRETE Others, None)												
Headwall					7	N	Snow covered					
Collar			7	N	Snow covered							

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)		_	
Wingwalls		7	N	_
(Shape :)				
Cutoff Wall		N	N	
Bevel End		5	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			_
Above/Below (mm)	100		-	
Scour Protection		7	N	Concrete lined channel
(Type : CONCRETE)				_
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Upstream End General Rating		5	N	
		Brid	dqe Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	Span (mm): 1829), Rise (mm): 1118, Type: FP)
Barrel Last Accessible Date	27-Feb-2001			North pipe Unable to enter due to water and ice depth and low clearance Viewed from both ends
Special Features			_	
Special Feature				
(Type :)			_	_
Special Feature				
(Туре :)				
Roof		N	4	8% estimated sag
Measured Rise (mm)	1020			Worst sag appears to be at ring 3
Measured At Ring No.	3			
Sag (mm)	98			
Percent Sag	8			
Sidewall		N	6	
Measured Span (mm)	1880			
Measured At Ring No.	3			Fatimata
Deflection (mm)	20			Esumate
Percent Deflection	2			
Floor		N	5	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	5	Mid seam dirt infiltration minor
Separation (mm)	25			
Longitudinal Seams		X	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				1
Longitudinal Stagger (X/N)				1

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

73538 -1 Bridge Culvert

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm)): 1829	, Rise (mm): 1118, Type: FP)						
Coating		N	5	Some pitting along floor and haunch area . Minor superficial						
Corrosion By Soil (Y/N)	No			corrosion at exterior roof and bevel						
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									
Fish Passage Adequacy		Х	X							
Baffle		Х	X							
(Туре :)										
Waterway Adequacy		7	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		4	4	GR carried forward						
		ח	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	v Span)									
Direction		W		South culvert. West end.						
End Treatment (Concrete, Steel, Others, None)	CONCRETE									
Headwall		7	N	Snow covered						
Collar		7	N							
Wingwalls		7	N							
(Shape :)										
Cutoff Wall		N	N							
Bevel End		6	N							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	100									
Scour Protection	100	7	N	Concrete lined channel						
(Type : CONCRETE)										
(Ava, Rock Size(mm) :)										
Scour/Erosion		7	N							
Beavers (Y/N)	No		1							
Downstream End General Ratir	ng	6	N							
			Up <u>stre</u> a	am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Direction		E		South culvert - East end.						
End Treatment (Concrete, Steel, Others, None)	CONCRETE									
Headwall		5	N	(Wide cracking over pipe) 6-June-2010						
Collar		7	N							

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		7	N	
(Shape :)				
Cutoff Wall			N	
Bevel End			N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	N	Concrete lined channel.
(Type : CONCRETE)				_
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Upstream End General Rating		6	N	
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (mm):	, Rise (mm): 1400, Type: MP)
Barrel Last Accessible Date	09-Dec-2011			South Pipe
Special Features				
Special Feature				
(Type:)				_
Special Feature				_
(Type:)			_	
Roof		6	6	
Measured Rise (mm)	1380			At Midspan
Measured At Ring No.				
Sag (mm)	20			_
Percent Sag	1			
Sidewall		6	6	Inward
Measured Span (mm)	1390			At Midspan
Measured At Ring No.				
Deflection (mm)				_
Percent Deflection	1			
Floor		N	5	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	Mid seam dirt infiltration minor
Separation (mm)	25			
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				1
Longitudinal Stagger (Y/N)				1

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Orchard Operations and		Bill	uge Cu	Fundamentian of Opendition
			NOW	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, RISE (MM): 1400, Type: MP)
Coating		6	5	Minor superficial rust
Corrosion By Soil (Y/N)	No			haunch level
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N) No				
Fish Passage Adequacy		X	X	
Baffle		Х	Х	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		W		South culvert, West end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall			N	Snow covered
Collar			N	
Wingwalls		7	N	
(Shape :)				
Cutoff Wall		N	N	buried
Bevel End		6	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100		-	
Scour Protection		7	N	Concrete lined channel.
(Type : CONCRETE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	6	N	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)		-	-	
Alignment				U/S CURVE Concrete lined canal.
Darah Orahilit		-	-	At u/s and d/s of secondary.
BANK STADIIITY			/	

Structure Usage										
		Last	Now	Explanation of Condition						
HWM (m below Top of Culvert)				Not visible						
Drift (Y/N) No										
Channel Bottom Degrading/Aggrading	AGGRADING									
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		7	7							

Maintenance Recommendations												
Inspector Recomm	nendations		Year	Inspecto	r Comments		Department Corr	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT	ACCUMULATION											
INSTALL CONCR	ETE/STEEL LINING											
INSTALL STRUTS	8											
INSTALL CONCR	ETE COLLAR/CUTC	DFF										
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION					1							
Structural Condition Rating (Last/Now) (%)			44.4/44.4	4	Sufficiency Rating (L (%)	ast/Now)	58.6/57.7 Est. Repl. Yr 2		2017	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection	Special Comments for Next Inspection					Department Comments						
Maintenance Rev	ewed By						Date		1	Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Progra	m (Y/N)											
Proposed Action												
Previous Inspecto	r's Name	Jason Rusu			Previous	Previous Assistant's Name						
Next Inspection D	ate	09-Sep-2013 Previo				Previous	us Inspection Date 06-Jun-2010					
Inspection Cycle (Default) (months)	21										
Comment												