					Bridg	e Culve	ert Inspe	ection					
Bridge File Number 73144 -2 Bridge Culvert							CULM						
Year Built 2001								4					
Bridge or Town Name LETHBRIDGE							Inspector Name		Tom Carey				
Located Over SMR - IRRIGATION C, W				WATERCRS-IC			·		BR CLS A				
Located On 3:10 L1 3.384;3:10 R1 3.385							Assistant Name						
Water Body Cl./Year						Assistant Class							
Navigabil. Cl./Year						Inspection Date		12-Nov-2011					
Legal Land Location NW SEC 1 TWP 9 RGE 21 W4M				M				Alyssa Boynton					
Longitude, Latitude -112:44:02, 49:42:32				i					07-Dec-2011				
									Garry Roberts				
Contract Main. Area CMA25				( )					21-Nov-2011				
Clear Roadway/Skew 30.6 /													
AADT/Year	70.1011		2010 (A)					Dept. Review Date		15-Dec-2011			
Road Classifica	ation	RFD-412					Follow-Up By		10 200 2011				
Detour Length		1					1 0011	OP 2,					
Bridge Culvert		ation											
Number of Culv			 1										
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN	(	6098	2439		BP		45				RECTANGLE	
Special Feature	es												
Special Feature	es Comi	ment											
·													
							ocated						
Utility Attachme			NE UTILITIES	-PHONE	LINE;	POWEF		IES-POV	VER LI	NE			
Telephone	N ditc						Gas						
Power 3 wire 10m South					Municipal Problem (Y/N) No								
Others					Problen	n (Y/N)	No						
Remarks													
				А			d / Embankment Explanation of Condition						
Harizantal Alian	nmont				Last 8	Now 8	1	RR 21-1 intersection located 30m W					
Horizontal Align Vertical Alignm					9	9	tapered	tapered lanes					
Vertical Alignin	GIIL				9	9							
							Double layer-W-beam						
Roadway Width	n (m)		30.000										
Embankment					8	8							
Sideslope (:1) 6.0		6.0					inor only	200mn	m at ends- 0.3m at road at median				
(Height of Co	ver(m) :	0.3)											
Guardrail (Y/N)			Yes										
Approach Roa	d / Eml	bankmen	nt General Rat	ing	8	8							
						Upstre	am End						
Culvert Compo	onent				Last Now		Explanation of Condition						
Direction		S		S end									
End Treatment Others, None)	(Concre	ete, Steel	I, CONCRETE										
Headwall			8	8									
Collar			Х	Х									
Wingwalls					8	8							
(Shape: )													

Upstream End										
<b>Culvert Component</b>		Last	Now	Explanation of Condition						
Cutoff Wall		X	X							
Bevel End		Х	Х							
Heaving (mm)										
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	100									
Scour Protection		8	8							
(Type: RIP RAP)										
(Avg. Rock Size(mm) : 200)			_							
Scour/Erosion		8	8							
Beavers (Y/N)	No									
Upstream End General Rating		8	8							
		Bri	dge Cu	lvert Barrel						
<b>Culvert Component</b>		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	n): 3049	, Rise (mm): 2439, Type: BP, Cell Sequence: 1)						
Barrel Last Accessible Date	12-Nov-2011			West cell						
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Type:)										
Roof			8							
Measured Rise (mm)	2439									
Measured At Ring No.	1									
Sag (mm)	0									
Percent Sag	0									
Sidewall		8	8							
Measured Span (mm)	3049									
Measured At Ring No.	1									
Deflection (mm)	0									
Percent Deflection	0									
Floor		8	8							
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		8	8	foam filled						
Separation (mm) 20										
Longitudinal Seams		Х	Х							
Total No. of Cracked Rings										
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)										
Longitudinal Stagger (Y/N)										
Coating		Х	Х							
Corrosion By Soil (Y/N)										
Corrosion By Water (Y/N)										
Camber POS/ZERO/NEG	ZERO									
Jambol I Joi/LENO/INEG										

73144 -2 Bridge Culvert

		Bric	lge Cul	vert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	): 3049	, Rise (mm): 2439, Type: BP, Cell Sequence: 1)
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	8	
		Bric	ige Cul	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	): 3049	, Rise (mm): 2439, Type: BP, Cell Sequence: 2)
Barrel Last Accessible Date	12-Nov-2011			east cell
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	8	
Measured Rise (mm)	2439			
Measured At Ring No.	1			
Sag (mm)	0			
Percent Sag				
Sidewall		8	8	
Measured Span (mm)	3049			
Measured At Ring No.	1			
Deflection (mm)	0			
Percent Deflection				
Floor		8	8	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	foam filled
Separation (mm)	60			
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)				
Longitudinal Stagger (Y/N)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel									
Culvert Component		Last		Explanation of Condition					
	tion Code: MAIN, Spa	ın (mm		, Rise (mm): 2439, Type: BP, Cell Sequence: 2)					
Ponding (Y/N)	No								
Fish Passage Adequacy		Х	Х						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		9	9						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		8	8						
			ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		N	11011	North end					
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall		8	8						
Collar		Х	Х						
Wingwalls			8						
(Shape: )									
Cutoff Wall		Х	Х						
Bevel End		Х	Х						
Heaving (mm)									
Invert Above/Below Stream Bed									
Above/Below (mm)									
Scour Protection		8	8						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : <b>200</b> )		1							
Scour/Erosion		8	8						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	8	8						
				re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)		8		0.0700 0.000 / 1.000 /					
Alignment			8	3-2700mm CSP's located 20m u/s RR bridge located 20m d/s					
Bank Stability		8	8						
HWM (m below Top of Culvert)	1.1								
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :									
(Fish Compensation Measure 2 :	NONE)	8							
Channel General Rating			8						

			Maintenance Reco	ommend	ations					
Inspector Recommendations	Year	Inspector Commo	ents		Department Comr	nents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS		·			·					
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	3									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 88.9/8	S8.9 Sufficie	ency Rating (Last/No	ow) 9	91.0/91.0	Est. Repl. Yr	2060	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Tom Carey		P	revious /	Assistant's Name					
Next Inspection Date	12-Aug-2013		P	revious I	nspection Date	24-Jun-2010				
Inspection Cycle (Default) (months)	21									
Comment										