					Brido	ae Culve	ert Inspe	ction						
Bridge File Number 73041 -1 Bridge Culvert				Billag	,o ourre	Form Ty			CUL1					
Year Built 1999						Lot No.			1					
Bridge or Town Name ROLLING HILL							Inspector Name		Jon Davies					
Located Over							Inspector Class BR CLS B							
WATERO			ERCRS-ST				Assistant Name							
Located On 525:02 C1 15.394							Assistant Class							
Water Body Cl./Year						Inspection Date		07-Mar-2012						
Navigabil. Cl./Y						Data Entry By		Anne Roberts						
			` 1 T\\/D 1/ D CE 12 \\//\\/				Data Entry Date		08-Apr-2012					
		9:54, 50:08:58				Reviewer Name		Garry Roberts						
-			Transportation (AIT)				Review Date		24-Mar-2012					
Contract Main. Area CMA23							Dept. Reviewer Name		Tim Davies					
Clear Roadway	/Skew	9.8 /					Dept. Review Date		17-Apr-2012					
AADT/Year		190 / 201	` ,				Follow-Up By							
Road Classifica		RCU-208	3-110				7 7							
Detour Length (5												
Bridge Culvert														
Number of Culv		1		Di. (- Di-) T		1		0 5 ("	DI /OL I	Ob			
Pipe #	Barrel		Span	Rise (or Di		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN	-		2700		MP		33		125X26	2.8,2.8,2.8	ROUND		
Special Feature				2700		1	00			1				
Special Feature		ment												
					Ut	ilities (L	_ocated a	at)						
Utility Attachme	T						1	1						
Telephone West side							Gas							
Power							Municip							
Others							Problem	n (Y/N)	No					
Remarks														
				A		Now		/ Embankment Explanation of Condition						
Horizontal Align	ment				8	7	Road rises to S then curves 150m from pipe							
					7	6	Troda naea to o then ourves Toom nom pipe							
Vertical Alignment Roadway Width (m) 11.000			<i>'</i>	0										
Roadway Widti	1 (111)		11.000											
Embankment					N	6	U/S height of cover 800 mm							
Sideslope (:1) 4.0			4.0											
(Height of Co	ver(m) :	: 1.3)												
Guardrail (Y/N)			No											
Approach Road / Embankment Genera			4 Consus! D. d	noral Pating 9										
Approach Roa	a / Emi	bankmen	t General Rat	ing	8	6								
						Upstre	am End							
Culvert Compo	nent				Last	Now	Explana	ation of (Condi	tion				
Direction							East sid	le						
End Treatment Others, None)	(Concre	ete, Steel,	, STEEL											
Headwall				X	X									
Collar			Х	Х										
Wingwalls			Х	Х										
(Shape:)														
Cutoff Wall					Х	X								

73041 -1 Bridge Culvert

			Unstre	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		5	3	3 m of bevel invert has been folded back. Bevel walls severely					
Heaving (mm) 200				deformed inwards.					
Invert Above/Below Stream Bed ABOVE				Heave estimate refers to remaining bevel ring section not able to					
Above/Below (mm) 200				estimate height above stream bed.					
Scour Protection			3	500mm pipe entrance into canal from S road ditch					
(Type : RIP RAP)				Displaced at sides of bevel.					
(Avg. Rock Size(mm) : 500)									
Scour/Erosion		N	3	Scour at bevel sides 2 m x 3 m x1. Scour at invert, unable to confirm					
				due to ice.					
Beavers (Y/N)	No								
Deavers (1/14)	INO								
Upstream End General Rating		N	3						
		Det	dero Cu	Nort Parral					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN Sr			, Rise (mm): 2700, Type: MP)					
Barrel Last Accessible Date	07-Mar-2012	Jan (mm	·/·	, rese (min). 2700; Type: mir)					
Darrer Last Accessible Date	07-War-2012								
Special Features			_						
Special Feature									
(Type:)			_						
Special Feature									
(Type:)									
Roof		8	7						
Measured Rise (mm)	2690								
Measured At Ring No.	1								
Sag (mm)	10								
Percent Sag	0								
Sidewall		8	7	Inward					
Measured Span (mm)	2653								
Measured At Ring No.	1								
Deflection (mm)	47								
Percent Deflection	1								
Floor		N	N	ice covered					
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		8	N	U/S bevel and R1 seam ice covered at floor where worst separation					
Separation (mm)	10			is suspected.					
Longitudinal Seams		X	X						
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams	0								
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)									
Coating		N	5	Superficial rust below waterline with light scaling.					
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								

73041 -1 Bridge Culvert

		Bric	lge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span):	, Rise (mm): 2700, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		6	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		9	3	Reduced capacity due U/S bevel deformation. Bevel edges at
Icing (Y/N)	No			sidewall project inward approx. 900 mm both sides.
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	3	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction			,	West
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		5	5	
Heaving (mm)	150			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		N	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		N	6	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)		T	1	
Alignment		6	6	Turns at a 90 degree angle 15m d/s Water flow measuring building downstream 15,
Bank Stability		N	5	
HWM (m below Top of Culvert) 0.3				At U/S grass on fencing
Drift (Y/N) No				
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Alignment Bank Stability HWM (m below Top of Culvert) 0.3 Drift (Y/N) No Channel Bottom Degrading/Aggrading DEGRADING		6	6	

73041 -1 Bridge Culvert

Bridge Inspection & Maintenance System (Web 2005)

		Maintenance Rec	commendations					
Inspector Recommendations	Year	Inspector Comments	Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP	2012	At U/S bevel 15 m3 of Cl. 2						
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING	ì							
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUTO	OFF							
REPAIR SEAMS								
OTHER ACTION	2012	Replace U/S bevel section						
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/N (%)	ow) 88.9/33	Sufficiency Rating (Last/N (%)	low) 84.2/38.8	Est. Repl. Yr	2035	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments					
Maintenance Reviewed By			Date		Es	stimated Tota	1 0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Tim Davies		Previous Assistant's Name	Assistant's Name				
Next Inspection Date	07-Jun-2015		Previous Inspection Date 03-Mar-2009					
Inspection Cycle (Default) (months)	39							
Comment								