

Bridge Culvert Inspection				
Bridge File Number	79639 -1 Bridge Culvert		Form Type	CUL1
Year Built	1986		Lot No.	4
Bridge or Town Name	RICH LAKE		Inspector Name	Wade Nanninga
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	55:14 C1 42.347		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	09-Apr-2012
Legal Land Location	NE SEC 28 TWP 63 RGE 10 W4M		Data Entry By	Lisa Fairhurst
Longitude, Latitude	-111:26:49, 54:29:06		Data Entry Date	25-Apr-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA08		Review Date	25-Apr-2012
Clear Roadway/Skew	11 /		Dept. Reviewer Name	Brent Herrick
AADT/Year	940 / 2011 (A)		Dept. Review Date	04-May-2012
Road Classification	RAU-211.8-110		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2200	MP	29	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Posting Information										
Required Vert. Clearance Posting (m)										
Posted Vertical Clearance (Y/N)		No								
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks	Not required.									

Utilities (Located at)			
Utility Attachments			
Telephone			Gas
Power	1 wire OH at 35 m North of c/l.		Municipal
Others			Problem (Y/N) No
Remarks	BF tag installed at top of North end roof.		

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curve to east.
Vertical Alignment		7	7	Crest curve to east, no passing EB.
Roadway Width (m)	11.000			
Embankment		4	4	Erosion of the ditches on both ends of culvert. Down to bridge size culvert File # 77448. Grassed & stable. NW ditch erosion 600 x 600 x 200m
Sideslope (___:1)	4.0			
(Height of Cover(m) : 0.8)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	100			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		X	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2200, Type: MP)				
Barrel Last Accessible Date	09-Apr-2012			200mm silt along floor
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)				Near cl
Measured At Ring No.				
Sag (mm)				Estimate due to dirt covered floor.
Percent Sag	3			
Sidewall		7	7	Near c/l.
Measured Span (mm)	2290			
Measured At Ring No.				
Deflection (mm)	60			
Percent Deflection	3			
Floor		7	7	Based on visible portions.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
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)				
Longitudinal Stagger (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2200, Type: MP)				
Coating		8	8	No visible corrosion.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	7	Above s.b.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		X	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	6	
Beavers (Y/N)	No			
Downstream End General Rating		7	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	9	
Roadway Surface		5	6	
(Type : SOIL)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		5	5	
Structure In Use (Y/N)	No			
Grade Separation General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	80.7/73.2	Est. Repl. Yr	2045	Maint. Req. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Shane Hall		Previous Assistant's Name				
Next Inspection Date	09-Jan-2014		Previous Inspection Date	14-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							