

Bridge Culvert Inspection				
Bridge File Number	81148 -1 Bridge Culvert		Form Type	CUL1
Year Built	1990		Lot No.	4
Bridge or Town Name	BARRHEAD		Inspector Name	Melanie Johnson
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS B
Located On	654:04 C1 13.206		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	23-Aug-2011
Legal Land Location	SW SEC 2 TWP 59 RGE 2 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-114:11:55, 54:03:54		Data Entry Date	13-Sep-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA10		Review Date	07-Sep-2011
Clear Roadway/Skew	10 /		Dept. Reviewer Name	Brent Herrick
AADT/Year	470 / 2010 (A)		Dept. Review Date	15-Sep-2011
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	29			

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	30	125X26	2.8	ROUND
Special Features		CONC FLOOR						
Special Features Comment								

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

Utilities (Located at)			
Utility Attachments			
Telephone	South r/w.		Gas
Power			Municipal
Others			Problem (Y/N) No
Remarks			
BF tag installed on top of North roof end.			

Approach Road / Embankment					
			Last	Now	Explanation of Condition
Horizontal Alignment			7	7	Field entrance at NE & SE. Roadway over pipe recently patched but transverse cracking both sides of pipe.
Vertical Alignment			7	7	
Roadway Width (m)		9.800			
Embankment			5	5	
Sideslope (__:1)		3.0			
(Height of Cover(m) : 1.2)					
Guardrail (Y/N)		No			
Approach Road / Embankment General Rating			7	7	

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		X	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	7	
Beavers (Y/N)	No			
Upstream End General Rating		9	7	

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	23-Aug-2011			
Special Features				
Special Feature		N	N	Under water/mud.
(Type : CONC FLOOR)				
Special Feature				
(Type :)				
Roof		8	8	Est
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	10			
Percent Sag				
Sidewall		8	8	At mid length.
Measured Span (mm)	2210			
Measured At Ring No.				
Deflection (mm)	10			
Percent Deflection	0			
Floor		N	N	Water/concrete.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
Separation (mm)	30			

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

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
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)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		X	7	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	7	
Beavers (Y/N)	No			
Downstream End General Rating		9	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	Pipe also handles North ditch flow.
Roadway Surface		7	7	
(Type : ACP)				
Icing (Y/N)		No		
Traffic Safety Features		X	X	
Type				
Lighting		X	X	
Barrel Leakage (Y/N)		No		
Drainage		6	6	
Structure In Use (Y/N)		Yes		
Grade Separation General Rating		8	6	

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) (%)	88.9/88.9	Sufficiency Rating (Last/Now) (%)	93.6/83.5	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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	23-Nov-2014		Previous Inspection Date	07-May-2008			
Inspection Cycle (Default) (months)	39						
Comment							