

Bridge Culvert Inspection											
Bridge File Number	74768 -1 Bridge Culvert				Form Type	CUL1					
Year Built	1957				Lot No.	3					
Bridge or Town Name	VAUXHALL				Inspector Name	Jon Davies					
Located Over	TRAIL-ANIMAL, OVER SP				Inspector Class	BR CLS B					
Located On	36:04 C1 20.990				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	02-Jan-2012					
Legal Land Location	SE SEC 2 TWP 12 RGE 16 W4M				Data Entry By	Alyssa Boynton					
Longitude, Latitude	-112:04:54, 49:57:59				Data Entry Date	22-Feb-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts					
Contract Main. Area	CMA24				Review Date	20-Jan-2012					
Clear Roadway/Skew	11.7 /				Dept. Reviewer Name	Tim Davies					
AADT/Year	2,550 / 2010 (A)				Dept. Review Date	24-Feb-2012					
Road Classification	RAU-211.8-110				Follow-Up By						
Detour Length (km)	12										
Bridge Culvert Information											
Number of Culverts	1										
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape			
1	MAIN	1830	1830	BP	24.4			RECTANGLE			
Special Features											
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)		Lane	SB	On Bridge (m)		In Advance (Y/N)
Remarks	Not required.										
Utilities (Located at)											
Utility Attachments											
Telephone					Gas						
Power					Municipal						
Others					Problem (Y/N)	No					
Remarks											
Approach Road / Embankment											
			Last	Now	Explanation of Condition						
Horizontal Alignment			5	5	No passing NB.						
Vertical Alignment			5	5	Steep grade going N, in curve						
Roadway Width (m)	11.000										
Embankment			4	3	1.5 wide x 1.2m DP x 10m erosion gully at NE embankment 5:1 at WEST						
Sideslope (__:1)	3.0										
(Height of Cover(m) : 1.1)											
Guardrail (Y/N)	Yes										
Approach Road / Embankment General Rating			5	5							
Upstream End											
Culvert Component			Last	Now	Explanation of Condition						
Direction			W		West end.						
End Treatment (Concrete, Steel, Others, None)	CONCRETE										
Headwall			6	6							

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls		6	6	
(Shape : FLARE)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		X	X	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	X	
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): 1830, Rise (mm): 1830, Type: BP)				
Barrel Last Accessible Date	02-Jan-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)	1830			
Measured At Ring No.	1			
Sag (mm)	0			
Percent Sag				
Sidewall		7	7	
Measured Span (mm)	1830			
Measured At Ring No.	1			
Deflection (mm)	0			
Percent Deflection				
Floor		7	7	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	5			
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): 1830, Rise (mm): 1830, Type: BP)				
Coating		X	X	
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	X	
Icing (Y/N)	No			
Siltting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	
Collar		X	X	
Wingwalls (Shape : FLARE)		6	6	25 to 35 mm separation of wings to barrel.
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		X	X	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	X	
Beavers (Y/N)	No			
Downstream End General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	X	
Roadway Surface		7	7	
(Type : CONCRETE)				
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		7	7	
Structure In Use (Y/N)	Yes			
Grade Separation General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2012	5m3 class rock erosion at NE embankment					
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) (%)	79.8/79.8	Est. Repl. Yr	2024	Maint. Req. (Y/N)	Yes
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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	02-Oct-2013		Previous Inspection Date	23-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							