

Bridge Culvert Inspection											
Bridge File Number	80478 -1 Bridge Culvert					Form Type	CUL1				
Year Built	1986					Lot No.	4				
Bridge or Town Name	LUNDBRECK					Inspector Name	Garry Roberts				
Located Over	TRAIL-ANIMAL, OVER SP					Inspector Class	BR CLS A				
Located On	22:08 C1 16.782					Assistant Name					
Water Body Cl./Year						Assistant Class					
Navigabil. Cl./Year						Inspection Date	16-Jun-2012				
Legal Land Location	NE SEC 25 TWP 11 RGE 2 W5M					Data Entry By	Erin Roberts				
Longitude, Latitude	-114:08:41, 49:56:38					Data Entry Date	17-Jul-2012				
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Joel Wozney				
Contract Main. Area	CMA26					Review Date	28-Jun-2012				
Clear Roadway/Skew	11.8 /					Dept. Reviewer Name	Tim Davies				
AADT/Year	2,210 / 2011 (A)					Dept. Review Date	17-Jul-2012				
Road Classification	RAU-211.8-110					Follow-Up By					
Detour Length (km)	18										
Bridge Culvert Information											
Number of Culverts	1										
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN	5100	3200	RPE	35.4	152X51	4.0	ELLIPSE			
Special Features											
Special Features Comment											
Posting Information											
Required Vert. Clearance Posting (m)											
Posted Vertical Clearance (Y/N)	No										
Posted:	Lane	WB	On Bridge (m)	In Advance (Y/N)	No	Lane	EB	On Bridge (m)	In Advance (Y/N)	No	
Remarks	Not Required										
Utilities (Located at)											
Utility Attachments											
Telephone	East ditch.					Gas					
Power						Municipal	Altalink @ West fenceline.				
Others	Fibre optics @ East r/w.					Problem (Y/N)	No				
Remarks											
Approach Road / Embankment											
			Last	Now	Explanation of Condition						
Horizontal Alignment			7	7	No passing SBL. Located 200m South of 73366						
Vertical Alignment			6	6							
Roadway Width (m)	11.800										
Embankment			7	7							
Sideslope (___:1)	3.5										
(Height of Cover(m) : 2.2)											
Guardrail (Y/N)	Yes				Minor damage @ NE Turndown						
<b>Approach Road / Embankment General Rating</b>			<b>6</b>	<b>6</b>							
Upstream End											
<b>Culvert Component</b>			Last	Now	Explanation of Condition						
Direction			W		West						
End Treatment (Concrete, Steel, Others, None)	STEEL										
Headwall			X	X							
Collar			X	X							

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape : )		X	X	
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection (Type : <b>NATURAL</b> ) (Avg. Rock Size(mm) : )		7	7	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>7</b>	<b>7</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5100, Rise (mm): 3200, Type: RPE)				
Barrel Last Accessible Date	16-Jun-2012			
<b>Special Features</b>				
Special Feature (Type : )				
Special Feature (Type : )				
Roof		7	7	Slight visible sag in roof.
Measured Rise (mm)				Estimate
Measured At Ring No.				
Sag (mm)	100			
Percent Sag	3			
Sidewall		8	8	
Measured Span (mm)	5171			
Measured At Ring No.	4			
Deflection (mm)	71			
Percent Deflection	1			
Floor		N	N	400mm fill on floor. 200mm water.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	West roof seams gap @ rings #1 & 2 - 3mm to 6mm
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			3N stagger at roof seams only
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5100, Rise (mm): 3200, Type: RPE)</b>				
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type : )				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Siltng (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>7</b>	<b>7</b>	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	7	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>7</b>	<b>7</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		X	X	
Roadway Surface		7	7	
(Type : <b>GRAVEL</b> )				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				
Lighting		X	X	
Barrel Leakage (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Drainage		5	5	200mm water in pipe
Structure In Use (Y/N)	Yes			
<b>Grade Separation General Rating</b>		<b>5</b>	<b>5</b>	

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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>73.0/73.0</b>	Est. Repl. Yr	2042	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	16-Mar-2014		Previous Inspection Date	07-Oct-2010			
Inspection Cycle (Default) (months)	21						
Comment							