

Bridge Culvert Inspection				
Bridge File Number	75636 -1 Bridge Culvert		Form Type	CUL1
Year Built	1962		Lot No.	4
Bridge or Town Name	ONOWAY		Inspector Name	Melanie Johnson
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS B
Located On	37:02 C1 10.530		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	08-Nov-2011
Legal Land Location	SE SEC 8 TWP 55 RGE 1 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-114:06:09, 53:43:57		Data Entry Date	19-Nov-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA09		Review Date	13-Nov-2011
Clear Roadway/Skew	11.4 /		Dept. Reviewer Name	Brent Herrick
AADT/Year	2,530 / 2010 (A)		Dept. Review Date	15-Dec-2011
Road Classification	RAU-209-110		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	1724	1901	SPE	18.9	152X51	3.0	ELLIPSE
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)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks		Not required.										

Utilities (Located at)			
Utility Attachments			
Telephone	South row		Gas
Power	North - 3 W		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road / Embankment					
		Last	Now	Explanation of Condition	
Horizontal Alignment		6	6	On grade, horizontal curve and limited sight distance to west. Driveway 15 m east.	
Vertical Alignment		6	6		
Roadway Width (m)		8.000			
Embankment		6	6		
Sideslope ( __:1)		2.0			
(Height of Cover(m) : 0.7)					
Guardrail (Y/N)		Yes			
<b>Approach Road / Embankment General Rating</b>		<b>6</b>	<b>6</b>		

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
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)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		X	X	
(Type : )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		X	X	
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
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE)</b>				
Barrel Last Accessible Date	08-Nov-2011			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		4	4	Dents & tears in roof near north end from mowers. Water & silt over floor, could not measure rise.
Measured Rise (mm)	2030			
Measured At Ring No.				Est. assumes 100mm of dirt on floor.
Sag (mm)	129			
Percent Sag	7			
Sidewall		5	5	Construction damage, small perforation with corrosion staining.
Measured Span (mm)	1733			
Measured At Ring No.	4			
Deflection (mm)	9			
Percent Deflection	1			
Floor		N	N	Covered with dirt.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE)</b>				
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
<b>(Type : )</b>				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>4</b>	<b>4</b>	

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 (Shape : )		X	X	
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection (Type : ) (Avg. Rock Size(mm) : )		X	X	
Scour/Erosion		X	X	
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		7	7	
Roadway Surface (Type : <b>SOIL</b> )		7	7	
Icing (Y/N)	No			
Traffic Safety Features Type	None	X	X	

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		X	X	
Barrel Leakage (Y/N)	Yes			
Drainage		5	5	
Structure In Use (Y/N)	No			No fencing adjoined to ends, trees at South, no trails.
<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>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>64.7/64.7</b>	Est. Repl. Yr	2030	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Assess requirements for structure during hwy 37 upgrading.		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	Eric Carcoux		Previous Assistant's Name	Brian Cote			
Next Inspection Date	08-Aug-2013		Previous Inspection Date	09-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							