

Bridge Culvert Inspection			
Bridge File Number	75657 -1 Bridge Culvert	Form Type	CUL1
Year Built	1986	Lot No.	4
Bridge or Town Name	KIKINO	Inspector Name	Eric Carcoux
Located Over	TRIBUTARY TO WHITEFISH CREEK, 7.25.2.3, WATERCRS-ST	Inspector Class	BR CLS A
Located On	36:26 C1 23.768	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	12-Apr-2012
Legal Land Location	NW SEC 3 TWP 62 RGE 14 W4M	Data Entry By	Lisa Fairhurst
Longitude, Latitude	-112:01:34, 54:20:01	Data Entry Date	24-Apr-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA08	Review Date	16-Apr-2012
Clear Roadway/Skew	12.1 /	Dept. Reviewer Name	Brent Herrick
AADT/Year	1,280 / 2011 (A)	Dept. Review Date	04-May-2012
Road Classification	RAU-213.4-120	Follow-Up By	
Detour Length (km)	41		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2430	SP	40.2	152X51	3.0	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments				
Telephone	West r/w.	Gas		
Power	1 wire OH 35m East of c/l. 1 wire crosses approx 75m North.	Municipal Problem (Y/N)	No	
Others				
Remarks	No BF tag installed.			

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		9	7	Residential access 40m N
Vertical Alignment		8	8	
Roadway Width (m)	12.100			
Embankment		8	8	
Sideslope ( :1)	3.5			
(Height of Cover(m) : 2.7)				
Guardrail (Y/N)	Yes			
<b>Approach Road / Embankment General Rating</b>		<b>8</b>	<b>7</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		W		Water to crown 1m. No evident problems.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	N	
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	250			
Scour Protection		N	N	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>N</b>	<b>N</b>	G.R. '8' carried forward from 14/Nov/2006 but could be "7" based on the previous scour element rating.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2430, Type: SP)				
Barrel Last Accessible Date	14-Nov-2006			Viewed from ends. Only 0.7m clear water to roof. Shape looks good
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		N	N	(Estimate. 14/Nov/2006)
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	22			
Percent Sag				
Sidewall		N	N	(Estimate. 14/Nov/2006)
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	22			
Percent Deflection				
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams		N	N	
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			
Coating		N	N	(Minor superficial rust. 2002/12/10)
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2430, Type: SP)				
Ponding (Y/N)	Yes			Due to beaverdams.
Fish Passage Adequacy		8	8	
Baffle		N	N	
(Type : )				
Waterway Adequacy		7	7	(Crown to ice freeboard 1000mm. 01/03/21)
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>N</b>	<b>N</b>	Previous G.R. was "7" from 14/Nov/2006.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		Water to crown 0.7m. No evident problems.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		N	N	
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	N	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>N</b>	<b>N</b>	G.R. was '8' at 14/Nov/2006.
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	NONE			Dam 20m u/s.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>8</b>	<b>8</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>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>60.1/60.0</b>	Est. Repl. Yr	2040	Maint. Reqd. (Y/N)	No
Special Comments for Next Inspection	Culvert barrel inaccessible for more than 2 consecutive cycles. Barrel shape looks good from end - photo. As such, a level 2 inspection is not recommended.		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				
Next Inspection Date	12-Jan-2014		Previous Inspection Date	31-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							