

Bridge Culvert Inspection			
Bridge File Number	74734 -2 Bridge Culvert	Form Type	CULM
Year Built	2006	Lot No.	4
Bridge or Town Name	MORINVILLE	Inspector Name	Melanie Johnson
Located Over	TRIBUTARY TO STURGEON RIVER, 6.65.3, WATERCRS-ST	Inspector Class	BR CLS B
Located On	642:04 C1 20.100	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	05-Jul-2011
Legal Land Location	SW SEC 5 TWP 56 RGE 24 W4M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:32:21, 53:48:13	Data Entry Date	19-Jul-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA09	Review Date	07-Jul-2011
Clear Roadway/Skew	13.4 / 0 deg.	Dept. Reviewer Name	Brent Herrick
AADT/Year	2,620 / 2010 (A)	Dept. Review Date	26-Jul-2011
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	6		

Bridge Culvert Information								
Number of Culverts		2						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2000	MP	36	125X26	2.8	ROUND
2	MAIN	-	2000	MP	36	125X26	2.8	ROUND
Special Features								
Special Features Comment								

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

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Entrances both directions. Crest to the West.
Vertical Alignment		7	7	
Roadway Width (m)	13.400			
Embankment		7	7	
Sideslope (_ :1)	5.0			
(Height of Cover(m) : 1)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)				
Direction		N		West pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)				
Collar		X	X	
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	250			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 300)		N	9	
Scour/Erosion		N	9	
Beavers (Y/N)	No			
Upstream End General Rating		9	9	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2000, Type: MP)				
Barrel Last Accessible Date	10-Mar-2008			West pipe. Water 0.8m deep. Viewed from ends, shape and condition looks good.
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		9	N	
Measured Rise (mm)	2010			(At c/l. 05/July/2006)
Measured At Ring No.				0.5%
Sag (mm)	10			
Percent Sag	1			
Sidewall		9	N	
Measured Span (mm)	2000			At c/l.-10-Mar-2008
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection	0			
Floor		N	N	Iced over.-10-Mar-2008
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	N	
Separation (mm)	30			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2000, 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		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	POS			
Ponding (Y/N)	No			
Fish Passage Adequacy		9	9	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		9	N	GR 9 from 10-Mar-2008

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2000, Type: MP)				
Barrel Last Accessible Date	10-Mar-2008			East pipe. Water 0.8m deep
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		9	N	(At c/l. 05/July/2006)
Measured Rise (mm)	2000			
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	0			
Sidewall		9	N	At c/l.-10-Mar-2008
Measured Span (mm)	2000			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection	0			
Floor		N	N	Floor iced over.-10-Mar-2008
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	N	
Separation (mm)	20			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2000, 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		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	POS			
Ponding (Y/N)	No			
Fish Passage Adequacy		9	9	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		9	N	GR 9 from 10-Mar-2008
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type:)				
Direction		S		West pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	250			
Scour Protection		N	9	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	9	
Beavers (Y/N)	No			
Downstream End General Rating		9	9	

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	HWM not visible.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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) (%)	100.0/55.6	Sufficiency Rating (Last/Now) (%)	98.5/74.5	Est. Repl. Yr	2055	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	Bryce Clayton			
Next Inspection Date	05-Oct-2014		Previous Inspection Date	10-Mar-2008			
Inspection Cycle (Default) (months)	39						
Comment							