

Bridge Culvert Inspection				
Bridge File Number	76750 -2 Bridge Culvert		Form Type	CUL1
Year Built	2005		Lot No.	4
Bridge or Town Name			Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO MUSKEG RIVER, 8.10.58.31.3, WATERCRS-ST		Inspector Class	BR CLS B
Located On	40:34 C1 16.970		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	22-Aug-2012
Legal Land Location	SE SEC 14 TWP 57 RGE 7 W6M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:55:19, 53:55:36		Data Entry Date	25-Sep-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA05		Review Date	24-Sep-2012
Clear Roadway/Skew	10 / 15 deg. (RHF)		Dept. Reviewer Name	Steve Pasquan
AADT/Year	1,590 / 2011 (A)		Dept. Review Date	04-Jan-2013
Road Classification	RAU-210-110		Follow-Up By	
Detour Length (km)	60			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1810	SP	181.644	152X51	5.0,5.0,5.0	ROUND
Special Features		BARREL ELBOW						
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	S r/w		Gas
Power	4 wire o/h North r/w		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	S. Curve, limited sight distance. No passing either lane.
Vertical Alignment		6	6	
Roadway Width (m)	10.000			
Embankment		N	4	Minor gullies North embankment, sloughing into d/s bevel end.-photo
Sideslope (__:1)	3.0			
(Height of Cover(m) : 24)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		6	6	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
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	7	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	450			
Scour Protection		N	7	A jack 24
(Type : CONCRETE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		9	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1810, Type: SP)				
Barrel Last Accessible Date	22-Aug-2012			
Special Features				
Special Feature		7	7	at ring 37
(Type : BARREL ELBOW)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)	1786			
Measured At Ring No.	11			
Sag (mm)	24			
Percent Sag	1			
Sidewall		5	5	R* @ 10:00 700mmwx400mmd dent - probably from construction.
Measured Span (mm)	1830			
Measured At Ring No.	11			
Deflection (mm)	20			
Percent Deflection	1			
Floor		7	7	
Bulge (mm)				
Measured At Ring No.	11			
Abrasion (Y/N)	Yes			
Circumferential Seams		7	7	
Separation (mm)				
Longitudinal Seams		7	7	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				2N
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		7	7	Minor superficial rust on strip of floor 400mm.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	POS			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1810, Type: SP)				
Fish Passage Adequacy		X	X	
Baffle		7	7	Baffles at d/s end only.
(Type : SPOILER)				
Waterway Adequacy		X	X	
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	7	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)				
Scour Protection		N	7	Ajacks AJ24 protection.
(Type : CONCRETE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Rating		9	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	Deg d/s.
Bank Stability		6	6	
HWM (m below Top of Culvert)				No HWM visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			Deg d/s
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	73.8/70.1	Est. Repl. Yr	2055	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor North embankment.		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	Russel Vanderschaaf		Previous Assistant's Name				
Next Inspection Date	22-May-2014		Previous Inspection Date	18-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							