

Bridge Culvert Inspection								
Bridge File Number	02405 -1 Bridge Culvert				Form Type	CUL1		
Year Built	1988				Lot No.	4		
Bridge or Town Name	WESTEROSE				Inspector Name	Owen Salava		
Located Over	BATTLE RIVER, 5, WATERCRS-ST				Inspector Class	BR CLS A		
Located On	771:04 C1 8.998				Assistant Name			
Water Body Cl./Year					Assistant Class			
Navigabil. Cl./Year					Inspection Date	05-Feb-2013		
Legal Land Location	NW SEC 34 TWP 45 RGE 1 W5M				Data Entry By	Marcia Chavez		
Longitude, Latitude	-114:04:28, 52:55:27				Data Entry Date	22-Feb-2013		
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien		
Contract Main. Area	CMA17				Review Date	13-Feb-2013		
Clear Roadway/Skew	9.4 / -5 deg. (LHF)				Dept. Reviewer Name	Chris Black		
AADT/Year	550 / 2011 (A)				Dept. Review Date	14-Mar-2013		
Road Classification	RCU-210-110				Follow-Up By			
Detour Length (km)	3							
Bridge Culvert Information								
Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	4674	5166	SPE	51.2	152X51	3.0	ROUND
Special Features								
Special Features Comment								
Utilities (Located at)								
Utility Attachments								
Telephone	Plowed in West ditch.				Gas	Crossing 100m.		
Power	1 wire OH 20m East of c/l. 1 wire OH 200m North.				Municipal			
Others					Problem (Y/N)	No		
Remarks								
Approach Road / Embankment								
			Last	Now	Explanation of Condition			
Horizontal Alignment			7	7	Farm entrances 100m North & South. Slight sag curve with a hill to the North.			
Vertical Alignment			6	6				
Roadway Width (m)	9.400				Transverse crack above culvert, sealed.			
Embankment			5	5	Minor sloughing @ SW edge of pipe.			
Sideslope (:1)	3.0				West side measured.			
(Height of Cover(m) : 2)								
Guardrail (Y/N)	Yes							
Approach Road / Embankment General Rating			6	6				
Upstream End								
Culvert Component			Last	Now	Explanation of Condition			
Direction			W					
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall			5	5	Cracked @ joint to collar.			
Collar			5	N	Snow covered.			
Wingwalls			X	X				
(Shape :)								
Cutoff Wall			N	N	Deep water/ice.			

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	N	Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4674, Rise (mm): 5166, Type: SPE)				
Barrel Last Accessible Date	05-Feb-2013			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	5	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		5	5	
Measured Span (mm)	4950			
Measured At Ring No.	7			
Deflection (mm)	276			5.9%
Percent Deflection	6			
Floor		N	N	Ice covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
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)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	6	
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4674, Rise (mm): 5166, Type: SPE)				
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		5	5	Wide cracks.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	Deep water/ice.
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		N	N	Snow covered.
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		5	5	Some sloughing downstream.
HWM (m below Top of Culvert)				No HWM visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

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) (%)	65.6/65.6	Est. Repl. Yr	2038	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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	05-May-2016		Previous Inspection Date	12-Feb-2010			
Inspection Cycle (Default) (months)	39						
Comment							