

Bridge Culvert Inspection			
Bridge File Number	81199 -1 Bridge Culvert	Form Type	CUL1
Year Built	1989	Lot No.	3
Bridge or Town Name	VEGREVILLE	Inspector Name	Owen Salava
Located Over	TRIBUTARY TO VERMILION RIVER, 6.5.32, WATERCRS-ST	Inspector Class	BR CLS A
Located On	631:02 C1 2.628	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	15-Jul-2011
Legal Land Location	SW SEC 4 TWP 53 RGE 15 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-112:09:29, 53:32:29	Data Entry Date	12-Aug-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA14	Review Date	20-Jul-2011
Clear Roadway/Skew	12 / -20 deg. (LHF)	Dept. Reviewer Name	Andrew Smikles
AADT/Year	390 / 2010 (A)	Dept. Review Date	29-Aug-2011
Road Classification	RCU-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	-	1600	MP	44	68X13	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	In south ditch.	Gas	
Power	20m north of CL. wire O/H.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	8	8	2 field accesses 150M E.
Vertical Alignment	8	8	
Roadway Width (m)	12.000		
Embankment	6	6	
Sideslope (__:1)	3.0		
(Height of Cover(m) : 3.2)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	8	8	

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	N	(Small tear in west side. Not visible. 17Mar2004).
Heaving (mm)	50			
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		N	N	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	
Beavers (Y/N)	Yes			Large beaver dam + pond at U.S. end.
Upstream End General Rating		4	4	G.R. carried forward from unknown date.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1600, Type: MP)				
Barrel Last Accessible Date	17-Mar-2004			Not accessible from u/s due to beaver dam. D/S bevel full of debris. Water 0.7m deep. Viewed from outlet, looks OK.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	(Span at midlength measured at 1580mm. 17Mar2004).
Measured Span (mm)	1580			
Measured At Ring No.				
Deflection (mm)	20			1.3%.
Percent Deflection	1			
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	(Barrel section poorly matched at middle seam. 17Mar2004). (Gaps up to 25mm around seam. Coupler appears snug on both sections. 17Mar2004).
Separation (mm)	25			
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		N	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1600, Type: MP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		4	4	Hampered by drift + beaver dam @ U.S. end.
Icing (Y/N)	No			
Silting (Y/N)	No			Drift blocking S opening - photo.
Drift (Y/N)	Yes			
Barrel General Rating		N	N	
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	5	Some drift accummulation.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rating		4	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	Large beaver pond u/s end.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	AGGRADING			D/S end.
Beavers (Y/N)	Yes			
(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	2012	Clear d/s bevel.					
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2012	Remove beaver dam @ u/s bevel.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	52.5/53.1	Est. Repl. Yr	2044	Maint. Req. (Y/N)	Yes
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	Glen Smith		Previous Assistant's Name				
Next Inspection Date	15-Oct-2014		Previous Inspection Date	08-Jun-2007			
Inspection Cycle (Default) (months)	39						
Comment							