

Bridge Culvert Inspection			
Bridge File Number	74247 -1 Bridge Culvert	Form Type	CUL1
Year Built	1982	Lot No.	4
Bridge or Town Name	WHITEMUD CRE	Inspector Name	Brian Pientsch
Located Over	WHITE MUD CREEK, 8.10.58.7.2, WATERCRS-ST	Inspector Class	BR CLS A
Located On	676:04 C1 8.712	Assistant Name	Lisbeth Medina
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	02-Feb-2011
Legal Land Location	SW SEC 1 TWP 75 RGE 23 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:25:60, 55:27:42	Data Entry Date	01-Mar-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA03	Review Date	22-Feb-2011
Clear Roadway/Skew	9.1 / -35 deg. (LHF)	Dept. Reviewer Name	Steve Pasquan
AADT/Year	180 / 2010 (A)	Dept. Review Date	15-Nov-2011
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	6		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2905		SPE	36.6	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone		Gas	
Power	2 wire o/h - 15m along N ditch.	Municipal	
Others		Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	RR 232 50m E.
Vertical Alignment	8	8	
Roadway Width (m)	9.000		
Embankment	7	7	
Sideslope ( __:1)	4.0		
(Height of Cover(m) : 1.5)			
Guardrail (Y/N)	No		
<b>Approach Road / Embankment General Rating</b>	<b>7</b>	<b>7</b>	

**Upstream End**

Culvert Component	Last	Now	Explanation of Condition
Direction	S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	N	5	
Collar	N	N	Under snow
Wingwalls	X	X	
(Shape : )			
Cutoff Wall	N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	N	Under snow - only 5% visible
Heaving (mm)	25			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection (Type : )		N	N	Under snow. 1.5. of silt in bevel end.
(Avg. Rock Size(mm) : )				
Scour/Erosion		N	N	Snow covered.
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>6</b>	<b>5</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2905, Rise (mm): , Type: SPE)				
Barrel Last Accessible Date	02-Feb-2011			
<b>Special Features</b>				
Special Feature (Type : )				
Special Feature (Type : )				
Roof		6	6	Measurements not taken due to silt on floor.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	25			
Percent Sag				
Sidewall		6	6	(SPAN - us 2882mm, ds 2835mm-00/12/18)
Measured Span (mm)	2895			Inward deflection
Measured At Ring No.				
Deflection (mm)	10			
Percent Deflection				
Floor		N	N	Under silt
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	6	
Separation (mm)	0			
Longitudinal Seams		N	6	
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	5	Superficial rust visible above silt.
Corrosion By Soil (Y/N)	No			
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): 2905, Rise (mm): , Type: SPE)				
Fish Passage Adequacy		3	4	Silt accumulation at inlet.
Baffle		N	N	
(Type : )				
Waterway Adequacy		3	3	Siltng is a problem u/s&d/s-00/12/18) (00/12/18) Siltng 1.5m
Icing (Y/N)	No			
Siltng (Y/N)	Yes			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>6</b>	<b>6</b>	
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		7	N	Only 5% visible.
Heaving (mm)	25			
Invert Above/Below Stream Bed		BELOW		Snow covered.
Above/Below (mm)	1000			
Scour Protection		7	N	Snow covered.
(Type : )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		7	N	Snow covered.
Beavers (Y/N)		No		
<b>Downstream End General Rating</b>		<b>7</b>	<b>7</b>	GR carried forward.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	6	
HWM (m below Top of Culvert)	1.0			HWM : Drift above crown.-23-Oct-2007 HWM not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading		AGGRADING		
Beavers (Y/N)		No		
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</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>66.7/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>51.6/52.0</b>	Est. Repl. Yr	2026	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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	02-May-2014		Previous Inspection Date	23-Oct-2007			
Inspection Cycle (Default) (months)	39						
Comment							