

Bridge Culvert Inspection				
Bridge File Number	73568 -1 Bridge Culvert		Form Type	CUL1
Year Built	1959		Lot No.	4
Bridge or Town Name	FAWCETT		Inspector Name	Todd Warshawski
Located Over	FRENCH CREEK, 8.11.84.4, WATERCRS-ST		Inspector Class	BR CLS B
Located On	44:02 C1 49.422		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	16-Apr-2013
Legal Land Location	NE SEC 16 TWP 64 RGE 1 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-114:04:60, 54:32:30		Data Entry Date	24-Apr-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA10		Review Date	21-Apr-2013
Clear Roadway/Skew	11.2 / -20 deg. (LHF)		Dept. Reviewer Name	Brent Herrick
AADT/Year	2,250 / 2012 (A)		Dept. Review Date	01-May-2013
Road Classification	RAU-210-110		Follow-Up By	
Detour Length (km)	5			

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	6100	6100	AP	61			ARCH
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments				
Telephone			Gas	
Power	3 wire OH East r/w		Municipal	
Others			Problem (Y/N)	No
Remarks				

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Entrance to Fawcett 100 m north. Sag curve no passing to NB.
Vertical Alignment		7	7	
Roadway Width (m)	11.200			
Embankment		5	5	4:1 top 1m so then 2 1/2:1.
Sideslope (__:1)	2.5			1 x 0.5 x 10m(lwd) erosion scour in SE ditch.-grassed and stable.
(Height of Cover(m) : 8)				
Guardrail (Y/N)	Yes			NW terminal end is not buried.
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>7</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	5	Few wide cracks.
Collar		X	X	
Wingwalls (Shape : <b>FLARE</b> )		4	4	40mm wide cracks NE wing.-photo NE wing has detached 18mm & moved in 380mm at top. Concrete repair has failed. photo

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		X	X	Snow/ice covered
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Water 2m deep
Above/Below (mm)	300			
Scour Protection		6	N	Snow/ice covered
(Type : <b>NONE</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		6	N	Snow/ice covered
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>4</b>	<b>4</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6100, Rise (mm): 6100, Type: AP)</b>				
Barrel Last Accessible Date	16-Apr-2013			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		N	6	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	5	Efflorescence stains showing through vertical cracks. Wide longitudinal crack on South side of wall, 10m from U/S. Several wide vertical cracks with stains.
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	4	Concrete spalls at construction joints along SE wall.
Separation (mm)	30			
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		X	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6100, Rise (mm): 6100, Type: AP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		N	N	150 x 650 concrete median. Chipped and broken at inlet end.-10-Sep-2009
(Type : )				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>N</b>	<b>5</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	Medium cracks
Collar		X	X	
Wingwalls		4	4	Typical wide diagonal cracks in each wingwall void behind wingwall. SE wing detached 70mm from barrel and moved in 150mm at top.
(Shape : )				
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			Water 2m deep
Above/Below (mm)	300			
Scour Protection		6	N	
(Type : <b>NONE</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		6	N	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		7	7	
Bank Stability		5	5	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Trails and cuttings evident.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</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>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>57.4/58.6</b>	Est. Repl. Yr	2036	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor wingwalls for instability.		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	16-Jan-2015		Previous Inspection Date	13-Jul-2011			
Inspection Cycle (Default) (months)	21						
Comment							