

Bridge Culvert Inspection			
Bridge File Number	79474 -1 Bridge Culvert	Form Type	CUL1
Year Built	1983	Lot No.	4
Bridge or Town Name	GRANDE PRAIRIE	Inspector Name	Russel Vanderschaaf
Located Over	BIG MOUNTAIN CREEK, 8.10.58.18.3, WATERCRS-ST	Inspector Class	BR CLS B
Located On	40:42 C1 0.007	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	21-Aug-2012
Legal Land Location	NW SEC 4 TWP 68 RGE 5 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:42:31, 54:51:36	Data Entry Date	24-Sep-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA05	Review Date	24-Sep-2012
Clear Roadway/Skew	11.8 /	Dept. Reviewer Name	Steve Pasquan
AADT/Year	2,640 / 2011 (A)	Dept. Review Date	07-Jan-2013
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	300		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	9800	6000	AP	67.2			ARCH
Special Features	DRIFT CATCHER							
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curve 200mm south. Sag curve.
Vertical Alignment		7	7	
				4:1 at bottom.
Roadway Width (m)	11.800			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 3)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls (Shape :)		7	7	Sheet piling behind gaps.
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 450)		7	7	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 9800, Rise (mm): 6000, Type: AP)				
Barrel Last Accessible Date	24-Feb-2012			Water 1.0m deep - shape looked good from ends.
Special Features				
Special Feature (Type : DRIFT CATCHER)				Drift deflectors
Special Feature (Type :)				
Roof		6	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		6	N	Medium map cracking near d/s end, both sides.
Measured Span (mm)	7893			
Measured At Ring No.	3			
Deflection (mm)	0			Estimated
Percent Deflection				
Floor		6	N	Floor looked good when pipe dewatered.-24-Feb-2012
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		5	N	(50mm STYROFOAM IN BETWEEN CIRCUMFERENTIAL SEAMS, 1ST SEAM IS ONLY ONE WITH POSSIBLE CONCERN WITH A 70mm GAP AT BOTTOM & 10mm GAP ON TOP BETWEEN CONCRETE & STYROFOAM. -24-Feb-2012
Separation (mm)	80			
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 9800, Rise (mm): 6000, Type: AP)				
Coating		X	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	N	GR was '6' on 24-Feb-2012
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		X	X	
Wingwalls (Shape :)		7	7	
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 450)		7	7	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	
Bank Stability		5	5	STREAMFLOW APPEARS TO BE ATTACKING NW CORNER OF STRUCTURE -VERICAL CUTBANKS U/S & D/S.
HWM (m below Top of Culvert)				No HWM visible.
Drift (Y/N)	Yes			DRIFT U/S BANKS, drift caught on drift catchers.
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

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) (%)	66.7/55.6	Sufficiency Rating (Last/Now) (%)	67.0/61.4	Est. Repl. Yr	2039	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	Russel Vanderschaaf		Previous Assistant's Name				
Next Inspection Date	21-May-2014		Previous Inspection Date	24-Feb-2012			
Inspection Cycle (Default) (months)	21						
Comment							