

Bridge Culvert Inspection			
Bridge File Number	70050 -2 Bridge Culvert	Form Type	CUL1
Year Built	2011	Lot No.	4
Bridge or Town Name	HINES CREEK	Inspector Name	Russel Vanderschaaf
Located Over	MONTAGNEUSE RIVER, 8.10.86, WATERCRS-ST	Inspector Class	BR CLS B
Located On	730:02 C1 3.529	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	26-Aug-2012
Legal Land Location	SW SEC 22 TWP 85 RGE 5 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:42:45, 56:23:02	Data Entry Date	24-Sep-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04	Review Date	23-Sep-2012
Clear Roadway/Skew		Dept. Reviewer Name	Steve Pasquan
AADT/Year	160 / 2011 (A)	Dept. Review Date	04-Jan-2013
Road Classification	RCU-210-110	Follow-Up By	
Detour Length (km)	8		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	5540	SP	39.63	152X51	4.2	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	West r/w	Gas	
Power	Single wire OH East r/w	Municipal	
Others		Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Farm approaches on East side, N & S of culvert.
Vertical Alignment	8	8	
Roadway Width (m)	10.300		
Embankment	9	9	
Sideslope ( __:1)	5.0		
(Height of Cover(m) : 1.5)			
Guardrail (Y/N)			
<b>Approach Road / Embankment General Rating</b>	<b>7</b>	<b>7</b>	

**Upstream End**

Culvert Component	Last	Now	Explanation of Condition
Direction	E		East
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	9	9	
Collar	9	9	
Wingwalls	X	X	
(Shape : )			
Cutoff Wall	9	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		9	9	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1600			
Scour Protection		9	9	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>500</b> )				
Scour/Erosion		9	9	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>9</b>	<b>9</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : <b>1</b> , Primary Span, Location Code: <b>MAIN</b> , Span (mm): , Rise (mm): <b>5540</b> , Type: <b>SP</b> )				
Barrel Last Accessible Date	09-Nov-2011			Water 3.9m from u/s crown, shape looks good.
<b>Special Features</b>				
Special Feature				As viewed from ends.
(Type : )				
Special Feature				
(Type : )				
Roof		9	N	Too high to measure
Measured Rise (mm)	5726			Deflection is inward.
Measured At Ring No.	8			
Sag (mm)				
Percent Sag				
Sidewall		9	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		9	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		9	N	
Separation (mm)				
Longitudinal Seams		9	N	
Total No. of Cracked Rings				
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		9	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	POS			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 5540, Type: SP)				
Fish Passage Adequacy		9	9	
Baffle		X	X	
(Type : )				
Waterway Adequacy		9	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>9</b>	<b>N</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		9	9	
Collar		9	9	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		9	N	
Bevel End		9	9	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1500			
Scour Protection		9	9	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		9	9	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>9</b>	<b>9</b>	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		9	9	
Bank Stability		9	9	
HWM (m below Top of Culvert)				No HWM visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				stable
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>9</b>	<b>9</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>100.0/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>100.0/78.9</b>	Est. Repl. Yr	2061	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	Brian Pientsch		Previous Assistant's Name				
Next Inspection Date	26-Nov-2015		Previous Inspection Date	09-Nov-2011			
Inspection Cycle (Default) (months)	39						
Comment							