

Bridge Culvert Inspection				
Bridge File Number	71668 -1 Bridge Culvert		Form Type	CUL1
Year Built	1958		Lot No.	2
Bridge or Town Name	VALLEYVIEW		Inspector Name	Brian Pientsch
Located Over	STURGEON CREEK, 8.10.58.7.23, WATERCRS-ST		Inspector Class	BR CLS A
Located On	49:12 C1 41.225		Assistant Name	Clem Guenette
Water Body Cl./Year			Assistant Class	BR CLS B
Navigabil. Cl./Year			Inspection Date	14-Dec-2012
Legal Land Location	NW SEC 35 TWP 70 RGE 22 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:15:19, 55:06:39		Data Entry Date	20-Jan-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA03		Review Date	09-Jan-2013
Clear Roadway/Skew	12.7 /		Dept. Reviewer Name	David Morrison
AADT/Year	1,870 / 2011 (A)		Dept. Review Date	18-Mar-2013
Road Classification	RAU-213.4-120		Follow-Up By	
Detour Length (km)	60			

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	7772	5334	AP	38.1			ARCH
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments				
Telephone	West r/w		Gas	
Power	5 wire OH East r/w		Municipal	
Others			Problem (Y/N)	No
Remarks	Temp phone through ditch West side.			

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	In sag curve with limited SSD both directions, no passing.
Vertical Alignment	5	5	
Roadway Width (m)	12.700		
Embankment	N	N	West embankment 15X30m slide 80m South and 15 X 20 m slide 5m South of culvert. East embankment 60m X 25m slide N. 5m. 40m X 20m South 5m and 20m X15m slide South 50m.-05-May-2009 Snow covered.
Sideslope (__:1)	4.0		
(Height of Cover(m) : 4)			
Guardrail (Y/N)	Yes		
<b>Approach Road / Embankment General Rating</b>	<b>3</b>	<b>3</b>	GR carried over-05-May-2009

**Upstream End**

Culvert Component	Last	Now	Explanation of Condition
Direction	W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	4	4	Wide cracking around arch w/staining. Map cracking (med) throughout vertical face.
Collar	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape : )		4	4	2 vertical cracks in wingwall S.side & N. Side. (medium)
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection (Type : <b>NONE</b> ) (Avg. Rock Size(mm) : )		N	N	Scour encroaching @ ends fo wingwall both sides.-05-May-2009 SNOW COVERED.
Scour/Erosion		N	N	
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
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 7772, Rise (mm): 5334, Type: AP)				
Barrel Last Accessible Date	14-Dec-2012			405mm ice to roof
<b>Special Features</b>				
Special Feature (Type : )				
Special Feature (Type : )				
Roof		6	6	Estimated due to ice.
Measured Rise (mm)	4424			
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		6	5	(Vertical crack in N. wall 8mm wide, length marked.) Cracks 10-15m @ joints. Wide vertical cracks in spans 2 & 3(5m in from d/s & u/s staining coming thru on both walls. Some concrete patches.) Too high to mark. Med. horizontal cracks across South wall span 2 & 3. Wide vertical cracks span 4. & 1 with efflorescence and rust stains.10-Feb-2011
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	Ice covered. Narrow & medium cracking across floor visible @ sides.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	5	
Separation (mm)	40			
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): 7772, Rise (mm): 5334, Type: AP)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		7	N	Ice on floor
(Type : )				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Siltting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>6</b>	<b>5</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		5	5	Med map cracking throughout vertical face.
Collar		X	X	
Wingwalls		5	5	2 med horizontal cracks in each corner. 2 wide vertical cracks on N. wall w/ staining.
(Shape : )				
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		N	N	Snow covered.
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>5</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		4	4	Sharp bends both ends.
Bank Stability		4	4	Banks sloughing d/s on South side..
HWM (m below Top of Culvert)	3.0			Staining on wingwalls.
Drift (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading	DEGRADING			U/S dam across river 10m u/s.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>4</b>	<b>4</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	2013	Repair embankments.-*carried over 05-May-2009					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>49.1/43.5</b>	Est. Repl. Yr	2024	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor cracking and wingwalls.		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	14-Sep-2014		Previous Inspection Date	10-Feb-2011			
Inspection Cycle (Default) (months)	21						
Comment							