

Bridge Culvert Inspection				
Bridge File Number	76641 -1 Bridge Culvert		Form Type	CUL1
Year Built	1971		Lot No.	
Bridge or Town Name	SWAN HILLS		Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO SWAN RIVER, 8.11.80.39.12, WATERCRS-ST		Inspector Class	BR CLS B
Located On	33:14 C1 12.508		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	11-Feb-2013
Legal Land Location	NW SEC 10 TWP 70 RGE 9 W5M		Data Entry By	Lisa Fairhurst
Longitude, Latitude	-115:17:10, 55:02:49		Data Entry Date	08-Apr-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA06		Review Date	07-Apr-2013
Clear Roadway/Skew	10.6 / 15 deg. (RHF)		Dept. Reviewer Name	
AADT/Year	770 / 2012 (A)		Dept. Review Date	
Road Classification	RAU-210-110		Follow-Up By	
Detour Length (km)	99			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1724	1901	SPE	134.7	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

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

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Direction of passing changes at bottom of sag.
Vertical Alignment		7	7	
Roadway Width (m)	10.600			
Embankment		4	N	(U/S N & S side. Gullies est 1.5 x 1.5 x 70 m long. Snow covered)
Sideslope (___:1)	4.0			
(Height of Cover(m) : 22.4)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		6	N	Snow covered
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		6	N	Snow covered
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE)				
Barrel Last Accessible Date	05-Apr-2011			Ice 0.6m from u/s crown
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	N	(Measurements not taken due to ice on floor. Shape looks adequate. 5 Apr 2011)
Measured Rise (mm)	1764			
Measured At Ring No.	12			
Sag (mm)	137			
Percent Sag	7			
Sidewall		5	N	(Insufficient thread ring 14 at 9:00. 5 Apr 2011)
Measured Span (mm)	1837			
Measured At Ring No.	12			
Deflection (mm)	113			
Percent Deflection	7			
Floor		N	N	(Missing 10 bolts on floor throughout entire pipe.-24-Jul-2009) (Under ice 5 Apr 2011)
Bulge (mm)	0			
Measured At Ring No.	12			
Abrasion (Y/N)	No			
Circumferential Seams		5	N	
Separation (mm)	0			
Longitudinal Seams		5	N	
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	N	(Pitting and scaling 5-7 o'clock.-24-Jul-2009 Under ice)
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE)				
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	Outfall of 1000 mm at outlet.
Baffle		X	X	
(Type :)				
Waterway Adequacy		4	4	Outfall at outlet.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	N	GR carried forward
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	5	Rate baed on 45% visibility
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1000			
Scour Protection		5	N	Outfall of 1000mm. Under snow
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		5	N	Snow cover.
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			D/S only.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	43.2/43.1	Est. Repl. Yr	2016	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	Lisbeth Medina			
Next Inspection Date	11-Nov-2014		Previous Inspection Date	05-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							