

Bridge Culvert Inspection			
Bridge File Number	79469 -1 Bridge Culvert	Form Type	CULM
Year Built	1982	Lot No.	4
Bridge or Town Name	SIBBALD FLAT	Inspector Name	Jon Davies
Located Over	TRIBUTARY TO SIBBALD CK, 2.13.43.8.2, WATERCRS-ST	Inspector Class	BR CLS B
Located On	68:04 C1 7.626	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	18-Sep-2012
Legal Land Location	SE SEC 20 TWP 24 RGE 7 W5M	Data Entry By	Lauren Korte
Longitude, Latitude	-114:56:30, 51:03:13	Data Entry Date	10-Oct-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA28	Review Date	21-Sep-2012
Clear Roadway/Skew	6.4 / -30 deg. (LHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	310 / 2011 (A)	Dept. Review Date	11-Oct-2012
Road Classification	RLU-209G-90	Follow-Up By	
Detour Length (km)	16		

Bridge Culvert Information

Number of Culverts	2							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1219	MP	42	68X13	3.5	ROUND
2	MAIN	-	1219	MP	42	68X13	3.5	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks	None observed.		

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment		7	At entrance to Sibbald Meadows Pond.
Vertical Alignment		6	
Roadway Width (m)	12.500		
Embankment		5	U/S end within 3m of shoulder.
Sideslope (__:1)	4.0		
(Height of Cover(m) : 1)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating		6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)			
Direction	S		West pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL		
Headwall		X	
Collar		X	
Wingwalls		X	
(Shape :)			

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Cutoff Wall			X	
Bevel End			7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection			7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion			7	
Beavers (Y/N)	No			
Upstream End General Rating			7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1219, Type: MP)				
Barrel Last Accessible Date	18-Sep-2012			West Pipe.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			6	General roof shape is good. Isolated roof sag East side of R3.
Measured Rise (mm)	1173			
Measured At Ring No.	3			
Sag (mm)	46			
Percent Sag	4			
Sidewall			6	General shape is good. Isolated inward deflection at end of R4.
Measured Span (mm)	1190			
Measured At Ring No.	3			
Deflection (mm)	29			
Percent Deflection	2			
Floor			6	Minor throughout.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams			6	
Separation (mm)	50			
Longitudinal Seams			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			6	Minor corrosion at floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1219, Type: MP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			5	
Baffle			X	
(Type :)				
Waterway Adequacy			7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			6	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Direction		N		West pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection			7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion			7	
Beavers (Y/N)	No			
Downstream End General Rating			7	
Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		S		East pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Bevel End			7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection			7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion			7	
Beavers (Y/N)	No			
Upstream End General Rating			7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1219, Type: MP)				
Barrel Last Accessible Date	18-Sep-2012			East pipe.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			7	
Measured Rise (mm)	1161			
Measured At Ring No.	2			
Sag (mm)	58			
Percent Sag	5			
Sidewall			7	
Measured Span (mm)	1172			
Measured At Ring No.	2			
Deflection (mm)	47			
Percent Deflection	4			
Floor			7	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams			7	Minor dents from installation.
Separation (mm)	30			
Longitudinal Seams			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			7	Minor corrosion at floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1219, Type: MP)				
Ponding (Y/N)	No			
Fish Passage Adequacy			5	
Baffle			X	
(Type :)				
Waterway Adequacy			7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		N		East pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection			7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion			7	
Beavers (Y/N)	No			
Downstream End General Rating			7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			6	Channel from water course not well defined. Appears to be only minimal flow from ditch drainage.
Bank Stability			6	
HWM (m below Top of Culvert)				No HWM visible. At D/S channel.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating			6	

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	Sufficiency Rating (Last/Now) (%)	/71.0	Est. Repl. Yr	2025	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			Previous Assistant's Name				
Next Inspection Date	18-Jun-2014		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						
Comment							