Bridge File Number 08519 -1 Bridge Culvert Form Type 0  Year Built 1959 Lot No. 4  Bridge or Town Name BUFFALO LAKE Inspector Name E  Located Over NIOBE CREEK, 8.10.58.18.2.8, Inspector Class	0111.4	Bridge Culvert Inspection										
Year Built 1959 Lot No. 4  Bridge or Town Name BUFFALO LAKE Inspector Name E Located Over NIOBE CREEK, 8.10.58.18.2.8,  WATERORS ST	CUL1											
Located Over NIOBE CREEK, 8.10.58.18.2.8, Inspector Class	4											
Located Over NIOBE CREEK, 8.10.58.18.2.8, Inspector Class	Brian Pientsch											
	BR CLS A											
ASSISTANT Name to Located On 59:02 C1 44 387	Brian Cote											
Water Body CL/Vear	05 Jul 2011											
Navigabil Cl Voor	05-Jul-2011											
Legal Land Location SW SEC 6 TWP 74 PGE 7 W6M	Lisa Fairhurst 12-Aug-2011											
Longitudo Latitudo 110:03:56 55:23:27	Arnold Assenheimer											
Poad Authority Alberta Transportation (AIT)	13-Jul-2011											
Contract Main, Area, CMA05												
Clear Poadway/Skow   11.8 /	16-Nov-2011											
AADT/Year 930 / 2010 (A) Follow-Up By	10 1107 2011											
Road Classification RAU-210-110												
Detour Length (km) 13												
Bridge Culvert Information												
Number of Culverts 1	0 5 "	DI /C: 1	01									
	Corr. Profile	Pl./Slab Thickness	Shape									
1 MAIN 2610 2877 SPE 33.5	152X51	3.5	ELLIPSE									
Special Features												
Special Features Comment												
Utilities (Located at)												
Utility Attachments												
Telephone South ditch. Gas												
Power 2 wire o/h along North ditch. Municipal	Municipal											
Others Problem (Y/N) No	Problem (Y/N) No											
Remarks												
Approach Road / Embankment												
Last Now Explanation of Condition												
important intersection. T	Horizontal curve to W., with important intersection. Turning lane											
Vertical Alignment 8 8 WBL.												
Roadway Width (m) 12.300												
	invert. Gully 0.8m deep x 1.5 x 6m long - SE side of u.s culvert invert.											
(Height of Cover(m): 1.5)			· · · · · · · · · · · · · · · · · ·									
Guardrail (Y/N) Yes G-rail N. side only. NW	NW of culvert.											
Approach Road / Embankment General Rating 6 6												
Upstream End	ion											
Culvert Component Last Now Explanation of Condition	1011											
Culvert Component Last Now Explanation of Condition  Direction N  End Treatment (Concrete, Steel, STEEL	<u> </u>											
Culvert Component Last Now Explanation of Condition  End Treatment (Concrete, Steel, Others, None)	OII .											
Upstream End  Culvert Component  Last Now Explanation of Condition  Direction  End Treatment (Concrete, Steel, Others, None)  Headwall  X X	<u>on</u>											
Culvert Component  Last Now Explanation of Condition  Direction  End Treatment (Concrete, Steel, Others, None)  Headwall  X  X  Collar	<u>on</u>											
Upstream End  Culvert Component  Last Now Explanation of Condition  Direction  End Treatment (Concrete, Steel, Others, None)  Headwall  X X												

08519 -1 Bridge Culvert

			Unstre	am End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)	150		1	
Scour Protection		4	4	Bevel extends 800mm from fill westside erosion on bevel sides.  EDGES OF BEVEL HEAVILY VEGETATED WITH WILLOWS.
(Type : <b>NONE</b> )				Visible through snow.
(Avg. Rock Size(mm):)			1	
Scour/Erosion		4	4	West side erosion 2m x 1.0m x 0.8m.
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		-0.1	lac O	Neart Powel
Culvert Component				Ivert Barrel Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN			•
Barrel Last Accessible Date	25-Nov-2009		<i>j</i> . 2010	could only inspect first half due to depth of water.
Darrer Last Accessible Date	25-INUV-2UU9			Could only inspect hist hall due to depth of water.
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		6	6	Minor corrosion through bolts.
Measured Rise (mm)	2790			D/s half appeared to be in good condition.
Measured At Ring No.	5			
Sag (mm)	87			
Percent Sag	3			
Sidewall		6	6	
Measured Span (mm)	2746			
Measured At Ring No.	5			
Deflection (mm)	136			
Percent Deflection	5			
Floor		N	N	Pitting and scaling rust lower half.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		X	6	Could not inspect d/s hlaf, no cracks for first 5 rings.
Separation (mm)	0			
Longitudinal Seams		6	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				An Stagger
Min. Remaining Steel Between Cracks (mm)				1n Stagger
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	Pitting, scaling rust lower half.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			Alkali deposits @ 3 & 9 o'clock seams indicate soil side corrosion.
Camber POS/ZERO/NEG	NEG			

		Brid	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	): 2610	, Rise (mm): 2877, Type: SPE)
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		4	4	D/S scour.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			Branches on bevel.
Barrel General Rating		6	6	
		D	ownstr	ream End
Culvert Component			Now	Explanation of Condition
Direction		S	111011	
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		Х	X	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	450			
Scour Protection		N	4	
(Type : <b>NONE</b> )				
(Avg. Rock Size(mm):)				
Scour/Erosion		N	4	Scourhole approx. 15m long,10m wide
Beavers (Y/N)	No			
Downstream End General Ratio	ng	4	4	
				re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		5	5	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		6	6	

			Maintenance I	Recommen	dations					
Inspector Recommendations	Year	Inspecto	r Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS					·					
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	3									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 66.7/	66.7	Sufficiency Rating (Las	t/Now)	54.1/54.2	Est. Repl. Yr	2019	Maint. Re	qd. (Y/N)	No
Special Monitor scour eros Comments for Next Inspection	ion @ N and S	ditches.			Department Comments					
Maintenance Reviewed By					Date		Е	Estimated Tota	I 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Brian Pients	ch		Previous	Assistant's Name	Lisbeth Medin	а			
Next Inspection Date	05-Apr-2013			Previous	Inspection Date	25-Nov-2009				
Inspection Cycle (Default) (months)	21									
Comment										