

Bridge Culvert Inspection			
Bridge File Number	75964 -1 Bridge Culvert	Form Type	CUL1
Year Built	1967	Lot No.	2
Bridge or Town Name	NORDEGG	Inspector Name	Owen Salava
Located Over	WHITEGOAT CREEK, 6.179, WATERCRS-ST	Inspector Class	BR CLS A
Located On	11:04 C1 4.680	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	07-Feb-2012
Legal Land Location	NE SEC 27 TWP 37 RGE 18 W5M	Data Entry By	Marcia Chavez
Longitude, Latitude	-116:28:38, 52:12:44	Data Entry Date	06-Mar-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA18	Review Date	22-Feb-2012
Clear Roadway/Skew	12.8 / 17 deg. (RHF)	Dept. Reviewer Name	Andrew Smikles
AADT/Year	840 / 2010 (A)	Dept. Review Date	09-Mar-2012
Road Classification	RAU-213.4-120	Follow-Up By	
Detour Length (km)	300		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	4267	2946	RP	38	152X51	3.5	PIPE ARCH
Special Features	CONC FLOOR							
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	South r/w.	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Built on a crest & horizontal curve with limited sight distance. No passing. On superelevation. Sign for creek says "Cline Creek".
Vertical Alignment		6	6	
Roadway Width (m)	12.800			
Embankment		5	5	Steep sideslope upstream end. 3:1 downstream.
Sideslope (__:1)	2.5			
(Height of Cover(m) : 2.2)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4267, Rise (mm): 2946, Type: RP)				
Barrel Last Accessible Date	07-Feb-2012			
Special Features				
Special Feature		4	N	(Center 15-20% worn and abraided away - photo. 05May2010) - Ice covered.
(Type : CONC FLOOR)				
Special Feature				
(Type :)				
Roof		7	7	Unable to measure due to ice. (2.6%. 05May2010).
Measured Rise (mm)	2870			
Measured At Ring No.	5			
Sag (mm)	76			
Percent Sag	3			
Sidewall		7	7	0.7%
Measured Span (mm)	4296			
Measured At Ring No.	5			
Deflection (mm)	29			
Percent Deflection	1			
Floor		5	N	(Floor covered with concrete. 15% exposed floor rated. 05May2010) - Ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	Roof only 1N.
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		6	6	Superficial to floor and haunches.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4267, Rise (mm): 2946, Type: RP)				
Fish Passage Adequacy		5	5	
Baffle		3	N	(Timber baffles with steel anchors all broken - photo. 05May2010) - Ice covered.
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	Minor slumping D/S.
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			Small drift @ U/S.
Channel Bottom Degrading/Aggrading	DEGRADING			Minor degrading @ D/S.
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	2012	Repair concrete floor or assess options, if not yet done.					
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2012	Remove or replace timber weirs, if not yet done.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	74.7/74.7	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	New concrete floor, armoured plate or diaphragm to trap/retain native material or hold rock, may be options for floor.		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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	07-Nov-2013		Previous Inspection Date	05-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							