Year Built 1998 Loc Bridge or Town Name HANNA In Located Over BULLPOUND CREEK, 3.17, WATERCRS-ST In Located On 9:08 C1 52.853 As Water Body CI./Year As Navigabil. CI./Year In	orm Type CULM ot No. 4 sspector Name Owen Salava sspector Class BR CLS A ssistant Name					
Year Built 1998 Loc Bridge or Town Name HANNA In Located Over BULLPOUND CREEK, 3.17, WATERCRS-ST In Located On 9:08 C1 52.853 As Water Body Cl./Year As Navigabil. Cl./Year In	ot No. 4 spector Name Owen Salava spector Class BR CLS A					
Bridge or Town Name HANNA In Located Over BULLPOUND CREEK, 3.17, WATERCRS-ST In Located On 9:08 C1 52.853 As Water Body Cl./Year As Navigabil. Cl./Year In	ospector Name Owen Salava Owen Salava Owen Salava Owen Salava					
Located Over BULLPOUND CREEK, 3.17, WATERCRS-ST In Located On 9:08 C1 52.853 As Water Body Cl./Year Navigabil. Cl./Year In	spector Class BR CLS A	<u> </u>				
Located On 9:08 C1 52.853 As Water Body Cl./Year As Navigabil. Cl./Year In	•					
Water Body Cl./Year As Navigabil. Cl./Year In	ssistant name					
Navigabil. Cl./Year In						
	ssistant Class					
	spection Date 02-Nov-2011					
	ata Entry By Marcia Chavez					
	ata Entry Date 28-Nov-2011					
	Reviewer Name John O'Brien					
		14-Nov-2011				
	ept. Reviewer Name Andrew Smikles					
	ept. Review Date 02-Dec-2011					
	ollow-Up By					
Detour Length (km) 7						
Bridge Culvert Information						
Number of Culverts 2						
Pipe # Barrel Span Rise (or Dia.) Type	Length Corr. Profile PI./Slab Shape Thickness					
1 MAIN - 3000 MP	31.6 125X26 3.5 ROUN	ID				
2 MAIN - 3000 MP	31.6 125X26 3.5 ROUN	ID				
Special Features						
Special Features Comment						
Dollo - A-						
Utilities (Loc	cated at)					
Utility Attachments						
•	Gas Municipal					
	·					
	roblem (Y/N) No					
Remarks Approach Road /	Embankment					
	In horizontal curve.					
Vertical Alignment 7 7						
	/ide ACP transverse crack between pipes not previously sea	aled.				
Embankment 8 8 No	North side measured.					
Sideslope (:1) 3.0						
(Height of Cover(m): 0.9)						
Guardrail (Y/N) Yes						
Approach Road / Embankment General Rating 7 7						
Upstream	n End					
	xplanation of Condition					
(Pipe # : 1, Span Type: Primary Span)						
	/est pipe.					
End Treatment (Concrete, Steel, CONCRETE Others, None)						
Headwall 8 8						
Collar 8 8						
Wingwalls X X						
(Shape:)						

71611 -1 Bridge Culvert

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Cutoff Wall		N	N	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
		Brid	dge Cu	ilvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 3000, Type: MP)
Barrel Last Accessible Date	20-Aug-2003			Thin ice; viewed from ends, shape looks good.
Special Features			_	
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	N	(Rating based on North 1/4 of pipe. Rise could not be measured due
Measured Rise (mm)				to ice. 11Mar2010).
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		7	N	(Span 2980 @ midspan. 2003/08/20)
Measured Span (mm)	2970			(Span measured @ 1/3 L from North = 2997mm, 3mm. 11Mar2010).
Measured At Ring No.				At North end.
Deflection (mm)	30			
Percent Deflection	1			
Floor	T.	N	N	(Under water. 2003/08/20) Ice.
Bulge (mm)	0			_
Measured At Ring No.				
Abrasion (Y/N)	No		_	
Circumferential Seams		5	N	(1st seam upstream. 2003/08/20) (1st seam D/S. 11Mar2010).
Separation (mm)	30			(1st sealth D/3. 11Wai2010).
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)				
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (V/N)	No			

		Brid	dge Cu	Ivert Barrel
•			Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	ı):	, Rise (mm): 3000, Type: MP)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	N	GR was 7 from 11Mar2010, but barrel not accessed since 2003.
				ream End
Culvert Component	_ `	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	<i>ı</i> Span)	1		T
Direction		N		West pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		X	X	
Wingwalls		X	X	
(Shape:)		1		
Cutoff Wall		X	X	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	600		1	
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)			1	
Scour/Erosion		N	8	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	8	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		S		East pipe.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	8	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		N	N	

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
Outroot Comment				Ilvert Barrel
Culvert Component	action Code: MAIN	Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo		Span (i	mm):	, Rise (mm): 3000, Type: MP)
Barrel Last Accessible Date	20-Aug-2003			Thin ice; viewed from ends, shape looks good.
Special Features				
Special Feature				
(Type:)			_	
Special Feature				
(Type:)				
Roof		7	N	(Rating based on North 1/4 L of pipe. Could not measure rise due to
Measured Rise (mm)				ice. 11Mar2010.
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		7	N	(Span 2970 @ midspan. 2003/08/20)
Measured Span (mm)	2975			(Rating based on North 1/4 L of pipe. 11Mar2010).
Measured At Ring No.				(At North end. 11Mar2010).
Deflection (mm)	25			
Percent Deflection	1			(0.8%. 11Mar2010).
Floor		N	N	Ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	N	(1st seam upstream. 2003/08/20)
Separation (mm)	30			(1st D/S seam. 11Mar2010).
Longitudinal Seams		Х	Х	
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	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			

		Brid	dae Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 3000, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	N	GR was 7 from 11Mar2010, but barrel not accessed since 2003.
		Downstr		ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		N		East pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)			_	
Scour/Erosion		N	8	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	8	
		5	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM unknown.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Unknown.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

			Mainter	ance Recommer	ndations					
Inspector Recommendations	Year	Inspector	Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	i									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTO	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										\perp
OTHER ACTION										
Structural Condition Rating (Last/Now) 77.8/55.6 Sufficiency Rating (Last/Now) (%)			g (Last/Now)	80.5/68.5	Est. Repl. Yr	2048	Maint. Re	eqd. (Y/N)	No	
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy									'	
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Jason Saly			Previou	s Assistant's Name					
Next Inspection Date	02-Aug-2013			Previou	s Inspection Date	11-Mar-2010				
Inspection Cycle (Default) (months)	21									
Comment										