



Latitude:34.83131, Longitude:-92.53873

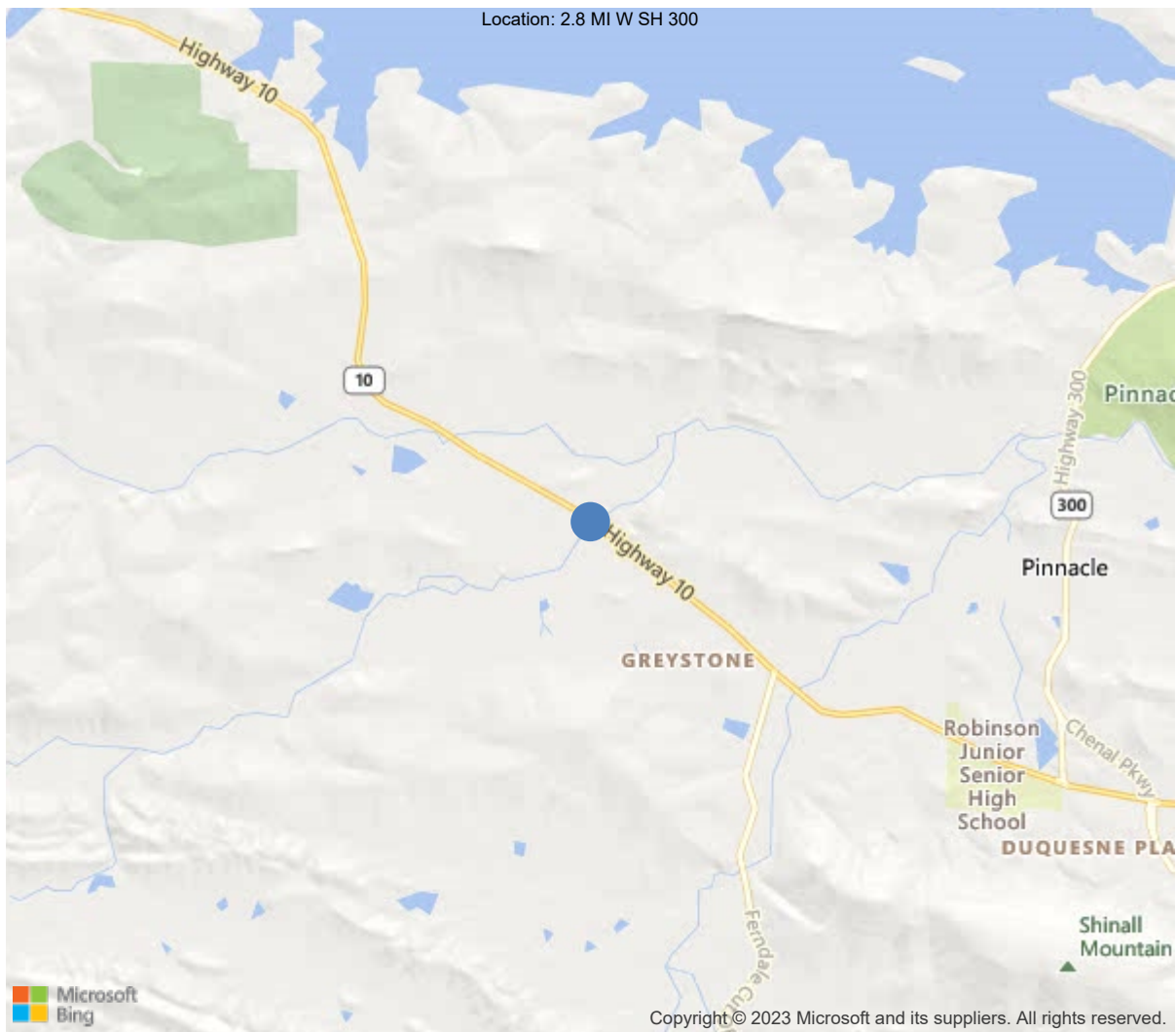
Route:10 Section:07 Log:14.937

Arnold Road ID:60x10x7xA, Arnold Log mile:14.928

District 06, 119 - Pulaski County

Owner: 1 - State Highway Agency





34.83131, -92.53873



Asset #02364(Routine)

SH 10 Log 14.94 over KINLEY CREEK

Location: 2.8 MI W SH 300

Team Lead: Chris Doggett, Inspection Date: 09/16/2021

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	02364
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	119 - Pulaski County
(4) Place Code	0
(6) Features Intersected	KINLEY CREEK
(7) Facility Carried	SH 10 Log 14.94
(9) Location	2.8 MI W SH 300
(11) Mile Point	14.937 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000010070
(16) Latitude	34.83131
(17) Longitude	-92.53873
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3 - Steel
Type	2 - Stringer/Multi-beam or girder
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1948
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	4000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	25 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	36 ft
(49) Structure Length	108 ft
(50) Curb or Sidewalk Width	
Left	2 ft
Right	2 ft
(51) Bridge Roadway Width Curb to Curb	26 ft
(52) Deck Width Out to Out	32.2 ft
(32) Approach Roadway Width (W/Shoulders)	29.9 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	30.2 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0 - No navigation control on w
(111) Pier Protection	1 - Navigation protection not
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	0 ft
(40) Navigation Horizontal Clearance	0 ft

CLASSIFICATION	
(112) NBIS Bridge Length	Y
(104) Highway System	0
(26) Functional Class	6 - Rural Minor Arterial
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exists
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	0 - The inventory route is not
(20) Toll	3 - On free road. The structure
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	5
(60) Substructure	5
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4 - M 18 / H 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	47
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	28
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	3
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(113) Scour Critical Bridges	8 - Bridge foundations determined to
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	135 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 156
(96) Total Project Cost	\$ 472
(97) Year of Improvement Cost Estimate	2004
(114) Future ADT	5574
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	09/16/2021		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.			



Asset #02364(Routine)

District: 06, County: 119 - Pulaski County

Team Lead: Chris Doggett, Inspection Date: 09/16/2021

#### General Observation

Job#6307 Drawing#6685 for layout. Logged west to east.

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#### A-46 - Asset Files

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**Team Lead:** Chris Doggett, **Inspection Date:** 09/16/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	2943	2798	145	0	0
1120	Efflorescence/Rust Staining	SF	5	0	5	0	0
1130	Cracking (RC and Other)	SF	140	0	140	0	0
510	Wearing Surfaces	SF	2808	1953	855	0	0
3220	Crack (Wearing Surface)	SF	855	0	855	0	0
(12) Soffit- Small cracks with efflorescence in span 1.							
(510-12) Multiple cracks in the asphalt surface at the joints.							
107	Steel Open Girder/Beam	LF	432	276	120	36	0
1000	Corrosion	LF	156	0	120	36	0
515	Steel Protective Coating	SF	3201	0	2151	840	210
3440	Effectiveness (Steel Protective Coatings)	LF	3201	0	2151	840	210
(107) Span 1 Beams 1 & 4 at bent 1, beams 1 thru 4 at bent 2. Span 2 beams 1 & 4 at bent 2 and beams 1 thru 4 at bent 3, Span 3 beams 1 & 4 at bents 3 and 4, all have surface rust and some active rust with moderate pitting.							
205	Reinforced Concrete Column	EA	4	1	0	3	0
1080	Delamination/Spall/Patched Area	EA	3	0	0	3	0
(205) Bent 2, columns 1 and 2, spalls with exposed rebar. Bent 3, column 2, large delamination.							
210	Reinforced Concrete Pier Wall	LF	48	0	37	11	0
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
1090	Exposed Rebar	LF	10	0	0	10	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0
1190	Abrasion/Wear (PSC/RC)	LF	34	0	34	0	0
(210) Bents 2 and 3 have spalls with exposed rebar and minor abrasion. Minor local scour at bents 2 and 3. Bents 2 and 3, vertical cracks							
215	Reinforced Concrete Abutment	LF	120	118	1	1	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	1	0	0	1	0
(215) Bent 1 has small spall with exposed rebar.							
234	Reinforced Concrete Pier Cap	LF	52	52	0	0	0
311	Movable Bearing	EA	12	0	0	12	0
1000	Corrosion	EA	12	0	0	12	0
(311) All bearings have active corrosion due to leaking joints.							

**Team Lead:** Chris Doggett, **Inspection Date:** 09/16/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
313	Fixed Bearing	EA	12	0	8	4	0
1000	Corrosion	EA	12	0	8	4	0
(313) All bearings have active corrosion.							
331	Reinforced Concrete Bridge Railing	LF	216	213	0	3	0
1090	Exposed Rebar	LF	3	0	0	3	0
(331) Left side railing has spalls with exposed rebar.							

**Location: 2.8 MI W SH 300**

**Team Lead:** Chris Doggett, **Inspection Date:** 09/16/2021

## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	2943	2798	145	0	0
1120	Efflorescence/Rust Staining	SF	5	0	5	0	0
1130	Cracking (RC and Other)	SF	140	0	140	0	0
510	Wearing Surfaces	SF	2808	1953	855	0	0
3220	Crack (Wearing Surface)	SF	855	0	855	0	0
(12) Soffit- Small cracks with efflorescence in span 1.							
(510-12) Multiple cracks in the asphalt surface at the joints.							



**Location: 2.8 MI W SH 300**

**Team Lead:** Chris Doggett, **Inspection Date:** 09/16/2021

## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	432	276	120	36	0
1000	Corrosion	LF	156	0	120	36	0
515	Steel Protective Coating	SF	3201	0	2151	840	210
3440	Effectiveness (Steel Protective Coatings)	LF	3201	0	2151	840	210
(107) Span 1 Beams 1 & 4 at bent 1, beams 1 thru 4 at bent 2. Span 2 beams 1 & 4 at bent 2 and beams 1 thru 4 at bent 3, Span 3 beams 1 & 4 at bents 3 and 4, all have surface rust and some active rust with moderate pitting.							



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Team Lead: Chris Doggett, Inspection Date: 09/16/2021

## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	4	1	0	3	0
1080	Delamination/Spall/Patched Area	EA	3	0	0	3	0
(205) Bent 2, columns 1 and 2, spalls with exposed rebar. Bent 3, column 2, large delamination.							
210	Reinforced Concrete Pier Wall	LF	48	0	37	11	0
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
1090	Exposed Rebar	LF	10	0	0	10	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0
1190	Abrasion/Wear (PSC/RC)	LF	34	0	34	0	0
(210) Bents 2 and 3 have spalls with exposed rebar and minor abrasion. Minor local scour at bents 2 and 3. Bents 2 and 3, vertical cracks							
215	Reinforced Concrete Abutment	LF	120	118	1	1	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	1	0	0	1	0
(215) Bent 1 has small spall with exposed rebar.							
234	Reinforced Concrete Pier Cap	LF	52	52	0	0	0



Asset #02364(Routine)

SH 10 Log 14.94 over KINLEY CREEK

Location: 2.8 MI W SH 300

Team Lead: Chris Doggett, Inspection Date: 09/16/2021

## Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4





Elevation



Deck view



Inventory looking east



Bent 2, column 1



Soffit view



**Asset #02364**(Routine)

**SH 10 Log 14.94 over KINLEY CREEK**

**Location: 2.8 MI W SH 300**

**Team Lead:** Chris Doggett, **Inspection Date:** 09/16/2021

#### **Maintenance Needs**

**Date Reported:** 09/26/2017  
**Priority:** C - Important  
**Type of Work:** (Inactive) (Inactive) 9 - None  
**Status:** Monitor  
**Component:**

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#### **Deficiency Description**

Span 1 Beams 1 & 4 at bent 1, beams 1 thru 4 at bent 2. Span 2 beams 1 & 4 at bent 2 and beams 1 thru 4 at bent 3, Span 3 beams 1 & 4 at bents 3 and 4, all have areas of corrosion with measurable section loss.

#### **Remarks**

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Span 3, girder 4: laminating rust and pitting to both upper and lower flange and web at the beam end.



Span 1 at bent 2, girders 1&2: laminating rust and pitting to both upper and lower flange and web at the beam end.



Span 3 beam 1 bent 3 active rust with moderate pitting to beam end.

**Date Reported:** 09/26/2017  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Element

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**Deficiency Description**

Bents 2&3 have spalls with exposed rebar on pier walls.

**Remarks**

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Ahead side of bent 3: area of delam in the pier wall



Bent 3: pier has spall with exposed rebar.





Left side of bent 2 large spall with exposed rebar.  
Common right side.



Bent 3 pier wall left end has spall with exposed  
rebar.



Bent 2 pier wall has spall with exposed rebar right side.



Bent 3 pier wall right side has spall with exposed rebar.



**Asset #02364(Routine)**

**SH 10 Log 14.94 over KINLEY CREEK**

**Location: 2.8 MI W SH 300**

**Team Lead:** Chris Doggett, **Inspection Date:** 09/16/2021

## **Routine Maintenance**

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	



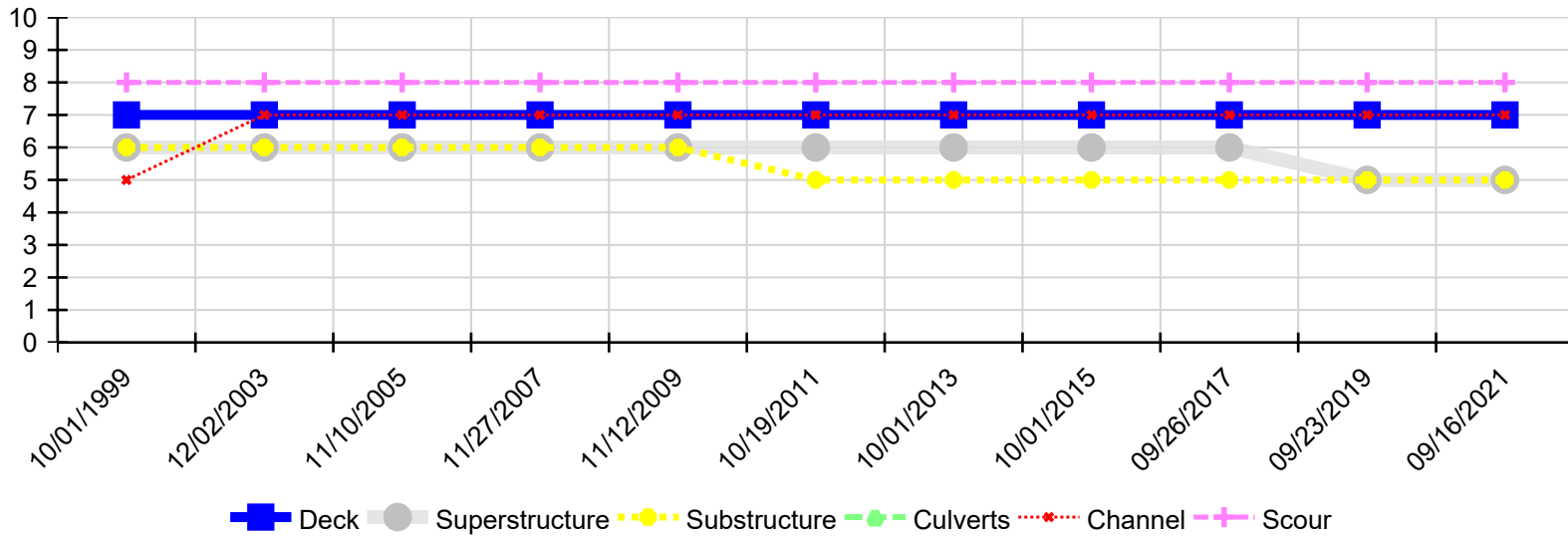
Asset #02364(Routine)

SH 10 Log 14.94 over KINLEY CREEK

Location: 2.8 MI W SH 300

Team Lead: Chris Doggett, Inspection Date: 09/16/2021

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
09/16/2021	7	5	5	N	7	8
09/23/2019	7	5	5	N	7	8
09/26/2017	7	6	5	N	7	8
10/01/2015	7	6	5	N	7	8
10/01/2013	7	6	5	N	7	8
10/19/2011	7	6	5	N	7	8
11/12/2009	7	6	6	N	7	8
11/27/2007	7	6	6	N	7	8
11/10/2005	7	6	6	N	7	8
12/02/2003	7	6	6	N	7	8
10/01/1999	7	6	6	N	5	8