



Latitude:35.85968, Longitude:-92.04688

Route:14 Section:07 Log:4.129

Arnold Road ID:69x14x7xA, Arnold Log mile:4.079

District 05, 137 - Stone County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

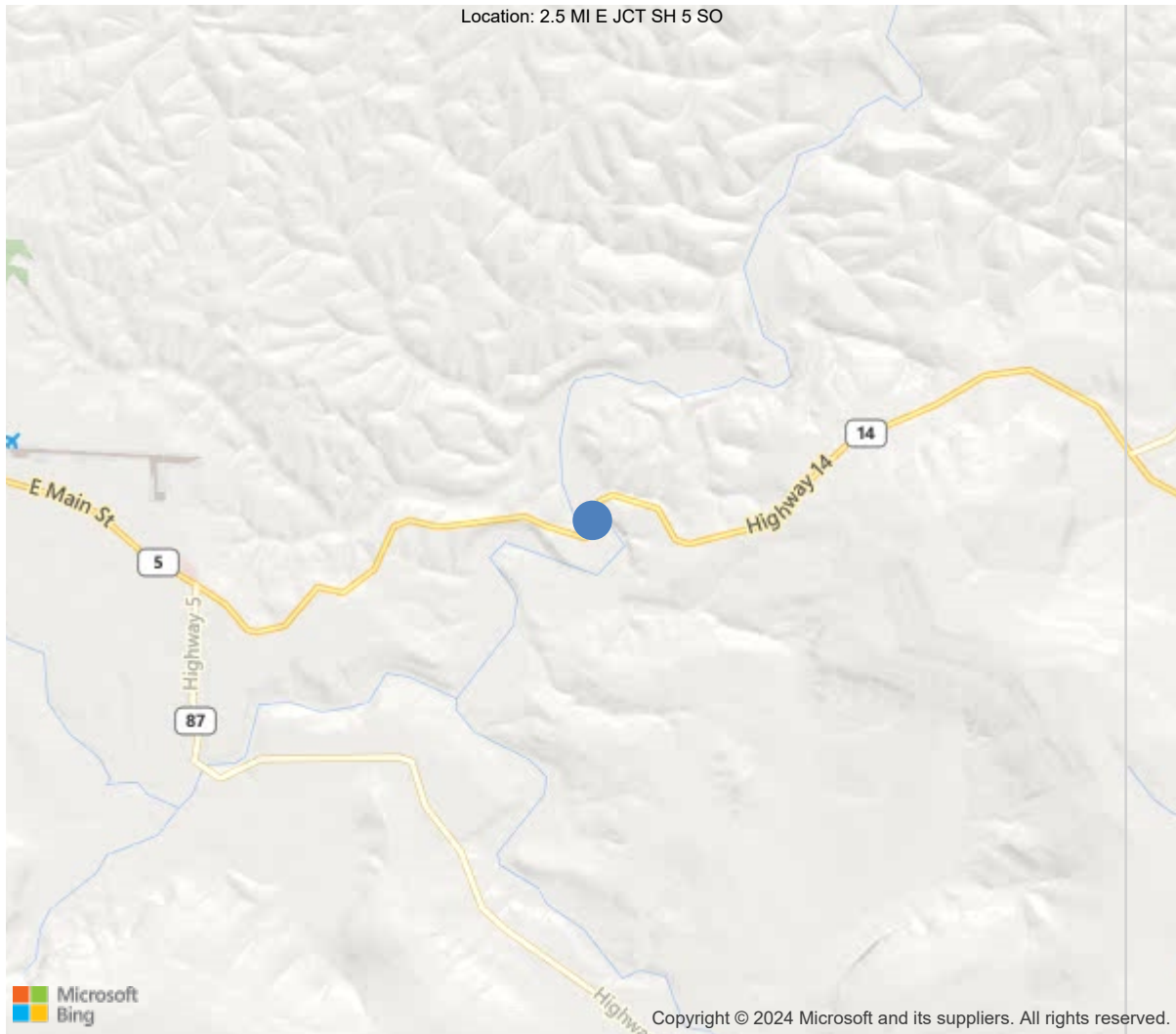
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	26		
Code 9 (31 Tons)	31		
Code 5 (40 Tons)	45		

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



35.85968, -92.04688

**Asset #02783**(Routine, Underwater type 2)**SH 14/Stone County over ROCKY BAYOU****Location: 2.5 MI E JCT SH 5 SO****Team Lead: Floyd Haley Inspection Date: 05/02/2024**

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	02783
(5) Inventory Route	1
(2) Highway Agency District	05 - District 05
(3) County Code	137 - Stone County
(4) Place Code	0
(6) Features Intersected	ROCKY BAYOU
(7) Facility Carried	SH 14/Stone County
(9) Location	2.5 MI E JCT SH 5 SO
(11) Mile Point	4.129 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000014070
(16) Latitude	35.85968
(17) Longitude	-92.04688
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
Type	1 - Slab
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	10
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1951
(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	2536
(30) Year of ADT	2018
(109) Truck ADT	5 %
(19) Bypass, Detour Length	19 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	18 ft
(49) Structure Length	180 ft
(50) Curb or Sidewalk Width	
Left	1.1 ft
Right	1.1 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	26.6 ft
(32) Approach Roadway Width (W/Shoulders)	25.9 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	24.3 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	5
(59) Superstructure	5
(60) Substructure	5
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2 - M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	38
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	23
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	8 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	211 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 156
(96) Total Project Cost	\$ 625
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	3048
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	05/02/2024		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	No		
* 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 #02783(Routine, Underwater type 2)

SH 14/Stone County over ROCKY BAYOU

Location: 2.5 MI E JCT SH 5 SO

Team Lead: Floyd Haley Inspection Date: 05/02/2024

General Observation

Elevation with Log Mile running to the Right.

Accessed by Foot with waders.

Weighted tape needed for Channel Profile

No traffic control needed.

Job Number: 5349.

58 - Deck (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

Deck is in overall Fair condition with transverse & longitudinal cracking & areas of spalling/patches @ joints.

59 - Superstructure (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

Superstructure is in Fair condition with cracking, delaminated & spalled areas. Most of the spalled areas have corroded reinforcing steel exposed.

60 - Substructure (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

Substructure is in overall Fair condition with areas of cracking and spalling, some having efflorescence and corroded reinforcing steel exposed to abutments, caps & columns.

61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)

Channel is in Satisfactory condition with scour in channel and around columns where drift was previously located.

A-51 - Inspection Direction (4 - W to E)

Roadway with Log Mile running Southwest to Northeast.



Asset #02783(Routine, Underwater type 2)

SH 14/Stone County over ROCKY BAYOU

Location: 2.5 MI E JCT SH 5 SO

Team Lead: Floyd Haley Inspection Date: 05/02/2024

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	4788	3321	570	897	0
1080	Delamination/Spall/Patched Area	SF	445	0	425	20	0
1090	Exposed Rebar	SF	201	0	0	201	0
1120	Efflorescence/Rust Staining	SF	40	0	40	0	0
1130	Cracking (RC and Other)	SF	781	0	105	676	0
(38) See attached Form-III for detailed descriptions and locations of deficiencies.							
205	Reinforced Concrete Column	EA	18	0	15	3	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
1090	Exposed Rebar	EA	2	0	0	2	0
1130	Cracking (RC and Other)	EA	9	0	8	1	0
6000	Scour	EA	6	0	6	0	0
(205) See attached Form-III for detailed descriptions and locations of deficiencies.							
215	Reinforced Concrete Abutment	LF	78	60	1	17	0
1080	Delamination/Spall/Patched Area	LF	10	0	0	10	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	3	0	0	3	0
6000	Scour	LF	4	0	0	4	0
(215) See attached Form-III for detailed descriptions and locations of deficiencies.							
234	Reinforced Concrete Pier Cap	LF	245	168	20	57	0
1080	Delamination/Spall/Patched Area	LF	14	0	7	7	0
1090	Exposed Rebar	LF	32	0	0	32	0
1120	Efflorescence/Rust Staining	LF	27	0	13	14	0
1130	Cracking (RC and Other)	LF	4	0	0	4	0
(234) See attached Form-III for detailed descriptions and locations of deficiencies.							
301	Pourable Joint Seal	LF	239	71	168	0	0
2320	Seal Adhesion	LF	60	0	60	0	0
2360	Adjacent Deck or Header	LF	108	0	108	0	0
(301) See attached Form-III for detailed descriptions and locations of deficiencies.							
330	Metal Bridge Railing	LF	360	0	357	3	0
1000	Corrosion	LF	357	0	357	0	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
7000	Damage	LF	3	0	0	3	0
515	Steel Protective Coating	SF	1080	0	360	360	360
3440	Effectiveness (Steel Protective Coatings)	LF	1080	0	360	360	360
(330) See attached Form-III for detailed descriptions and locations of deficiencies.							



Elevation.



Inventory.



Typical deck.



Typical undersurface.



Span 10, Centerline: Spalling with exposed reinforcing steel with section loss. CS3.



Abutment 2: Spalling.



Bent 9, Columns: Embankment erosion.



Bent 7, Ahead, Bottom: Spalling with exposed reinforcing steel with section loss. CS3.



Span 9, Undersurface: Longitudinal cracking with efflorescence. CS2



Bent 8, Back, Bottom: Spalling with exposed reinforcing steel with section loss. CS3..



Spans 6 & 7, Bent 6: Typical spalling to edge of Slab.



Span 6, Drains: Spalling with exposed reinforcing steel. CS3.



Bent 5, Right: Spalling with exposed reinforcing steel with section loss. CS3.



Bent 4, Ahead, adjacent to Column 2: Spalling. CS3.



Bent 4, Column 2: Delaminated.



Bent 4, Left: Spalling with exposed reinforcing steel with section loss. CS3.



Bent 3, Column: Typical vertical cracking.



Bent 4, Back, Right: Spalling with exposed reinforcing steel. CS3.



Span 4, Drains: Spalling with exposed reinforcing steel with section loss. CS3.



Bent 3, Bottom, Right: Spalling with exposed reinforcing steel with section loss. CS3.



Bent 2, Columns: Typical vertical cracking. CS2.



Span 3: Numerous spalls with exposed reinforcing steel section loss. CS3.



Bent 1, Bottom, Back: Wide cracking with rust staining. CS3.



Span 2: Numerous spalls with exposed reinforcing steel section loss. CS3.



Bent 1, Left: Spalling with exposed reinforcing steel with section loss. CS3.



Bent 1, Bottom, Back: Delaminated area for 10'.



Abutment 1, 8' from Left: Large diagonal cracking.



Abutment 1, Left Wing Wall: Undermining.



Span 1, Centerline: Spalling with exposed reinforcing steel with section loss. CS3.



Span 10: Longitudinal cracking. CS3.



Joint at Bent 9: Patched & unsound patched areas.



Span 9: Map cracking. CS3.



Right side of Bridge: Channel view.



Left side of Bridge: Channel view.



Joint at Bent 6: Unsound patched areas.



Span 6, Bent 5, near Centerline: Unsound patches & delaminated area.



Span 6: Longitudinal cracking. CS3.



Span 5: Longitudinal & transverse cracking. CS3.



Joint at Bent 3: Seal adhesion failure.



Span 3: Longitudinal cracking. CS3.



05/02/2024

Joint at Bent 2: Unsound patched areas.



05/02/2024

Bridge Railing: Surface corrosion typical throughout the Structure.



05/02/2024

Joint at Bent 1: Unsound patched areas.



05/02/2024

Spans 1 & 2: Longitudinal cracking. CS3.

Maintenance Needs

Date Reported: 05/17/2016

Priority: C - Important

Type of Work: Substructure Repair

Status: Monitor

Component: Substructure

Deficiency Description

Bents 3 - 5, and 7 - 9
Spalls with corroded rebar exposed to caps.

Remarks



05/18/2020

Bent 4 Left. Spalls with rebar exposed to end of Cap.



05/18/2020

Bent 5 Right. Spalls with rebar exposed to end of Cap.



05/26/2022

Bents 3 - 5, and 7 - 9 Spalls with corroded rebar exposed to caps.

Maintenance Needs

Date Reported: 05/17/2016

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Bridge

Deficiency Description

Spans 1 - 10

Spalls with corroded rebar exposed to soffit and at drain openings.

Cracks / spalls to edges of deck over Bents 1 - 9

Remarks



Spalls with corroded rebar exposed to soffit @ drain opening @ Right side of Span 4.



Spalls with corroded rebar exposed to soffit @ drain opening @ Left side of Span 4.



Spans 1 - 10 Spalls with corroded rebar exposed to soffit
and at drain openings. Cracks / spalls to edges of deck
over Bents 1 - 9

Maintenance Needs

Date Reported: 05/17/2016

Priority: D- Routine

Type of Work: Substructure Repair

Status: Monitor

Component: Substructure

Deficiency Description

Abutment 1

Left wing is undermined 6" down and 1' back under.

Remarks



Abutment 1 Left wing.



Abutment 1: Left wing is undermined 6" down and 1' back under.

Maintenance Needs

Date Reported: 05/17/2016

Priority: D- Routine

Type of Work: Approach Leveling/Maintenance

Status: Monitor

Component: Approach

Deficiency Description

Left and Right approach rails at Abutment 2
Approach rails have collision damage.

Remarks



Abutment 2, Right, Transition: Damage.



Abutment 2, Left, Transition: Damage.



Left bridge rail @ Abutment 2. Collision damage.



Right bridge rail @ Abutment 2. Collision damage.



05/26/2022

Left and Right approach rails at Abutment 2 Approach
rails have collision damage.

Maintenance Needs

Date Reported: 05/17/2016

Priority: D- Routine

Type of Work: Channel Work/Drift Removal

Status: Monitor

Component: Channel

Deficiency Description

Bents 5 - 8: Scour around columns.

Remarks



Bents 5 - 8: Scour.

Maintenance Needs

Date Reported: 05/01/2018

Priority: D- Routine

Type of Work: Deck Repair

Status: Monitor

Component: Deck

Deficiency Description

Spans 2, 4, 5, 6, 9 & 10 have spalls to deck.

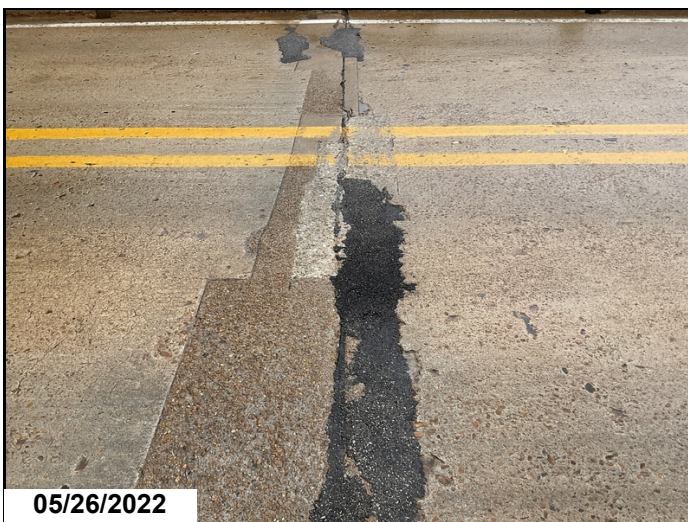
Remarks



Span 10: Spalls to deck at joint.



Spans 8 & 9 have spalls at joints.



Spans 5, 6, 9 & 10 have spalls to deck.Span 8



Asset #02783(Routine, Underwater type 2)

SH 14/Stone County over ROCKY BAYOU

Location: 2.5 MI E JCT SH 5 SO

Team Lead: Floyd Haley Inspection Date: 05/02/2024

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	Yes
A-55 - Deck Washing Needed	No
A-56 - Joint Cleaning/Flushing Needed	No
A-57 - Beam End and Bearing Paint Needed	No
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	Yes
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	No
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	No
A-64 - Vegetation Removal Requested	No

A-54 - Sealable Deck Cracks (Yes)

A-55 - Deck Washing Needed (No)

A-56 - Joint Cleaning/Flushing Needed (No)



Asset #02783(Routine, Underwater type 2)

SH 14/Stone County over ROCKY BAYOU

Location: 2.5 MI E JCT SH 5 SO

Team Lead: Floyd Haley Inspection Date: 05/02/2024

A-57 - Beam End and Bearing Painting Needed (No)

A-58 - Cap Cleaning/Flushing Needed (No)

A-59 - Joint Repair Needed (Yes)

A-60 - Full Beam Painting Needed (No)

A-61 - Polymer Overlay Advised (No)

A-62 - Hydro and LMC Advised (No)

A-63 - Missing/Incorrect Log Mile Signage (No)

A-64 - Vegetation Removal Requested (No)



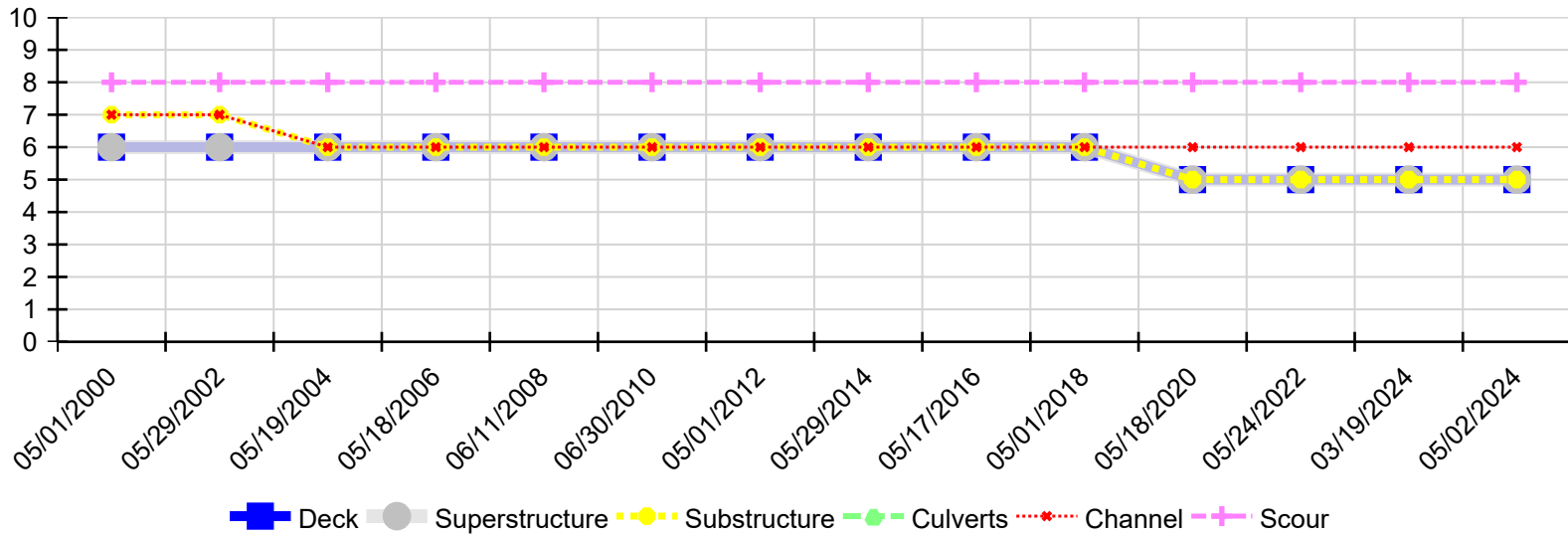
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SH 14/Stone County over ROCKY BAYOU

Location: 2.5 MI E JCT SH 5 SO

Team Lead: Floyd Haley Inspection Date: 05/02/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
05/02/2024	5	5	5	N	6	8
03/19/2024	5	5	5	N	6	8
05/24/2022	5	5	5	N	6	8
05/18/2020	5	5	5	N	6	8
05/01/2018	6	6	6	N	6	8
05/17/2016	6	6	6	N	6	8
05/29/2014	6	6	6	N	6	8
05/01/2012	6	6	6	N	6	8
06/30/2010	6	6	6	N	6	8
06/11/2008	6	6	6	N	6	8
05/18/2006	6	6	6	N	6	8
05/19/2004	6	6	6	N	6	8
05/29/2002	6	6	7	N	7	8
05/01/2000	6	6	7	N	7	8

