



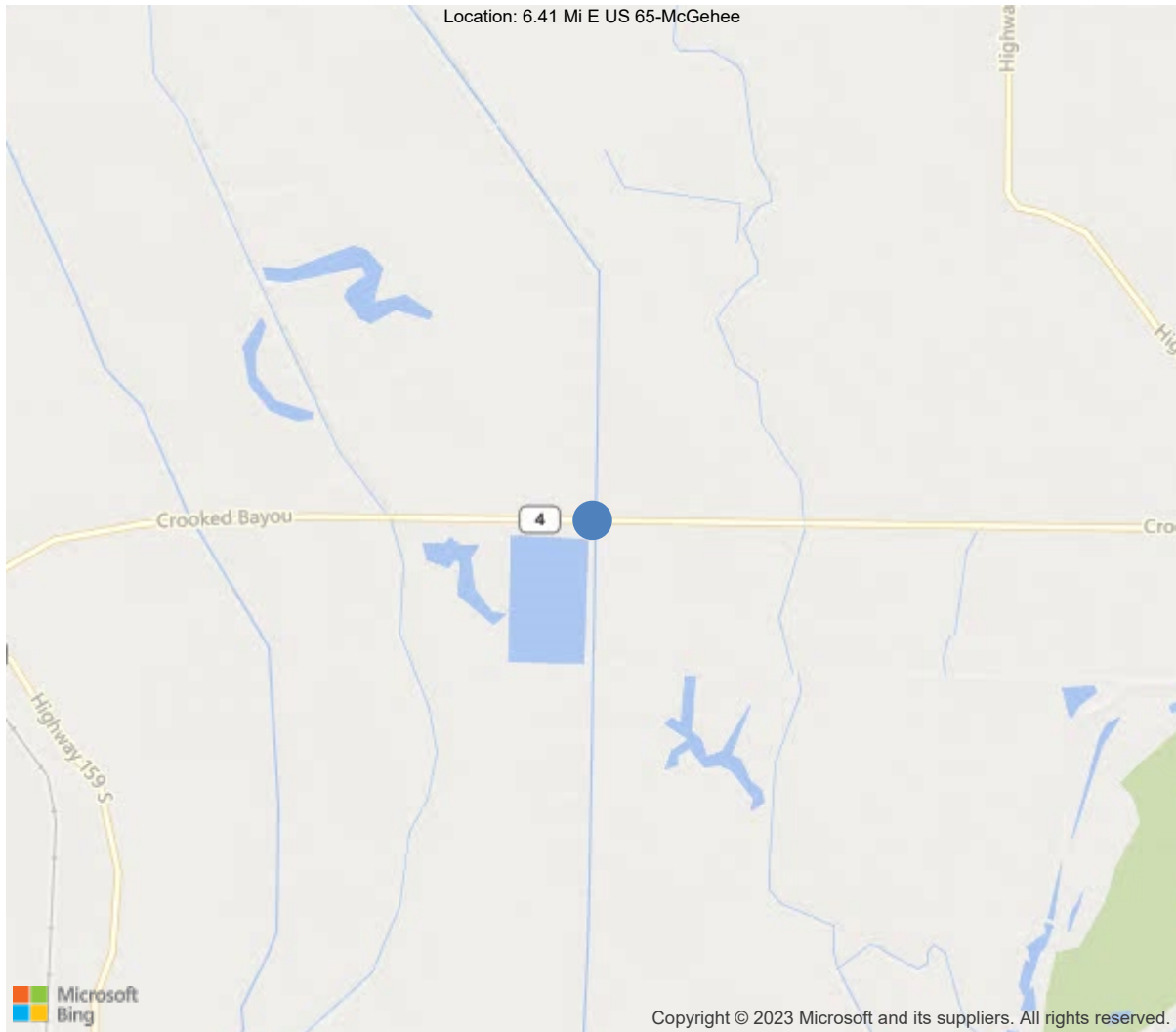
Latitude:33.60580, Longitude:-91.27854

Route:4 Section:17 Log:6.41

Arnold Road ID:21x4x17xA, Arnold Log mile:6.379

District 02, 41 - Desha County

Owner: 1 - State Highway Agency



33.60580, -91.27854



Asset #03592(Underwater type 2)

SH 4-17 LM 6.41 over Canal No. 43

Location: 6.41 Mi E US 65-McGehee

Team Lead: Sharon Hooks, Inspection Date: 03/10/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03592
(5) Inventory Route	1
(2) Highway Agency District	02 - District 02
(3) County Code	41 - Desha County
(4) Place Code	0
(6) Features Intersected	Canal No. 43
(7) Facility Carried	SH 4-17 LM 6.41
(9) Location	6.41 Mi E US 65-McGehee
(11) Mile Point	6.41 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.6058
(17) Longitude	-91.27854
(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	5
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	5 - Epoxy Overlay
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1963
(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	900
(30) Year of ADT	2018
(109) Truck ADT	5 %
(19) Bypass, Detour Length	15 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	28 ft
(49) Structure Length	140 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	28.6 ft
(32) Approach Roadway Width (W/Shoulders)	34.1 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	25.9 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	5 - None present but re-evalua
(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	7 - Rural Major Collector
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exis
(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 structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	7
(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	41
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	25
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	6
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	7 - Countermeasures have been insta
PROPOSED IMPROVEMENTS	
(75) Type of Work	
(76) Length of Structure Improvement	0 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estimate	
(114) Future ADT	1200
(115) Year of Future ADT	2037

INSPECTIONS *			
(90) Inspection Date	03/09/2021		
(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 #03592(Underwater type 2)

District: 02, County: 41 - Desha County

Team Lead: Sharon Hooks, Inspection Date: 03/10/2022

A-21 - Code 9 (Beginning)

-

A-22 - Code 9 (End)

-

A-46 - Asset Files

-

General Observation (False)

Bridge logged from west to east.

Team Lead: Sharon Hooks, **Inspection Date:** 03/10/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	3360	3316	40	4	0
1080	Delamination/Spall/Patched Area	SF	40	0	40	0	0
1090	Exposed Rebar	SF	4	0	0	4	0
510	Wearing Surfaces	SF	3360	3360	0	0	0
(38) Deck: 28.6' wide x 140' long. Asphalt wearing surface has been milled off deck surface, spalls and delaminations have been patched, and a polymer overlay placed on deck. Soffit: Some patches at drain holes and a couple spalls with exposed rebar on bottom side of deck at outside corners at Bent 2.							
215	Reinforced Concrete Abutment	LF	68	68	0	0	0
(215) Abutments: 34' each / Bents 1 & 6.							
227	Reinforced Concrete Pile	EA	16	9	7	0	0
1080	Delamination/Spall/Patched Area	EA	3	0	3	0	0
1130	Cracking (RC and Other)	EA	4	0	4	0	0
(227) Piling: 4 per bent \ Bents 2-5. Bent # 4 & 5 pile # 4 has small vertical crack from cap down 1 foot.							
234	Reinforced Concrete Pier Cap	LF	96	77	16	3	0
1080	Delamination/Spall/Patched Area	LF	16	0	15	1	0
1090	Exposed Rebar	LF	3	0	1	2	0
(234) Caps: 24' each \ Bents 2-5. Bent 2 has small spall with exposed rebar on back face between pile 1-2. Bent 2 very small spall with exposed rebar on bottom. Bent 5 cap between piles 1&2 cracking and delams on ahead face. Most spalls have been repaired by State Forces.							
301	Pourable Joint Seal	LF	96	0	0	96	0
2350	Debris Impaction	LF	96	0	0	96	0
(301) Pourable Joint Seals : 24' each bents 2-4. All joint seals have debris impaction due to epoxy overlay of deck.							
330	Metal Bridge Railing	LF	270	270	0	0	0
515	Steel Protective Coating	SF	675	0	0	675	0
3410	Chalking (Steel Protective Coatings)	LF	675	0	0	675	0
(330) Railing: 135' each side. Coating: 2.5 square feet per linear feet of railing. Metal railing on concrete posts. Paint on railing has worn away and primer is showing through in most places. Broken/cracked concrete bridge post have been repaired by state forces.							

Team Lead: Sharon Hooks, **Inspection Date:** 03/10/2022

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	3360	3316	40	4	0
1080	Delamination/Spall/Patched Area	SF	40	0	40	0	0
1090	Exposed Rebar	SF	4	0	0	4	0
510	Wearing Surfaces	SF	3360	3360	0	0	0
<p>(38) Deck: 28.6' wide x 140' long.</p> <p>Asphalt wearing surface has been milled off deck surface, spalls and delaminations have been patched, and a polymer overlay placed on deck.</p> <p>Soffit: Some patches at drain holes and a couple spalls with exposed rebar on bottom side of deck at outside corners at Bent 2.</p>							



Asset #03592(Underwater type 2)

SH 4-17 LM 6.41 over Canal No. 43

Location: 6.41 Mi E US 65-McGehee

Team Lead: Sharon Hooks, Inspection Date: 03/10/2022

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	68	68	0	0	0
(215) Abutments: 34' each / Bents 1 & 6.							
227	Reinforced Concrete Pile	EA	16	9	7	0	0
1080	Delamination/Spall/Patched Area	EA	3	0	3	0	0
1130	Cracking (RC and Other)	EA	4	0	4	0	0
(227) Piling: 4 per bent \ Bents 2-5. Bent # 4 & 5 pile # 4 has small vertical crack from cap down 1 foot.							
234	Reinforced Concrete Pier Cap	LF	96	77	16	3	0
1080	Delamination/Spall/Patched Area	LF	16	0	15	1	0
1090	Exposed Rebar	LF	3	0	1	2	0
(234) Caps: 24' each \ Bents 2-5. Bent 2 has small spall with exposed rebar on back face between pile 1-2. Bent 2 very small spall with exposed rebar on bottom. Bent 5 cap between piles 1&2 cracking and delams on ahead face. Most spalls have been repaired by State Forces.							



Asset #03592(Underwater type 2)

SH 4-17 LM 6.41 over Canal No. 43

Location: 6.41 Mi E US 65-McGehee

Team Lead: Sharon Hooks, **Inspection Date:** 03/10/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation.



Bent 2 back has spall with exposed rebar and cracking.



Overview of soffit.



Deck overview.



Approach.



Elevation.



Bent 2 cap left behind cracking with delams.



Bent 2 joint seal has debris impactation due to epoxy overlay.



Asset #03592(Underwater type 2)

SH 4-17 LM 6.41 over Canal No. 43

Location: 6.41 Mi E US 65-McGehee

Team Lead: Sharon Hooks, **Inspection Date:** 03/10/2022

Maintenance Needs

Date Reported: 02/07/2017

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 0 - N/A

Status: Assigned

Component:

Deficiency Description

Channel - Bents 3-4 left : Minor build-up of small logs, limbs, and other debris against piling.
Note debris was removed by State Forces 2019 but debris is present this inspection 2021 SDH

Remarks

Cleaned by State Forces.

Desha: remove debris 2019



Channel - Bents 3-4 left (debris build-up)



Channel - Bents 3-4 left (debris build-up)



Drift and debris restricting water flow at bents 3&4.

Date Reported: 02/28/2019
Priority: D- Routine
Type of Work: (Inactive) (Inactive) 9 - None
Status: Assigned
Component:

Deficiency Description

Pourable Joint Seals bents 2-5 have debris impaction from epoxy overlay of deck.

Remarks



Pourable Joint Seals have debris impaction from epoxy overlay.



Asset #03592(Underwater type 2)

SH 4-17 LM 6.41 over Canal No. 43

Location: 6.41 Mi E US 65-McGehee

Team Lead: Sharon Hooks, **Inspection Date:** 03/10/2022

Routine Maintenance

Check Box Maintenance Items

Data Field	Value
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 - Hydo and LMC Advised	



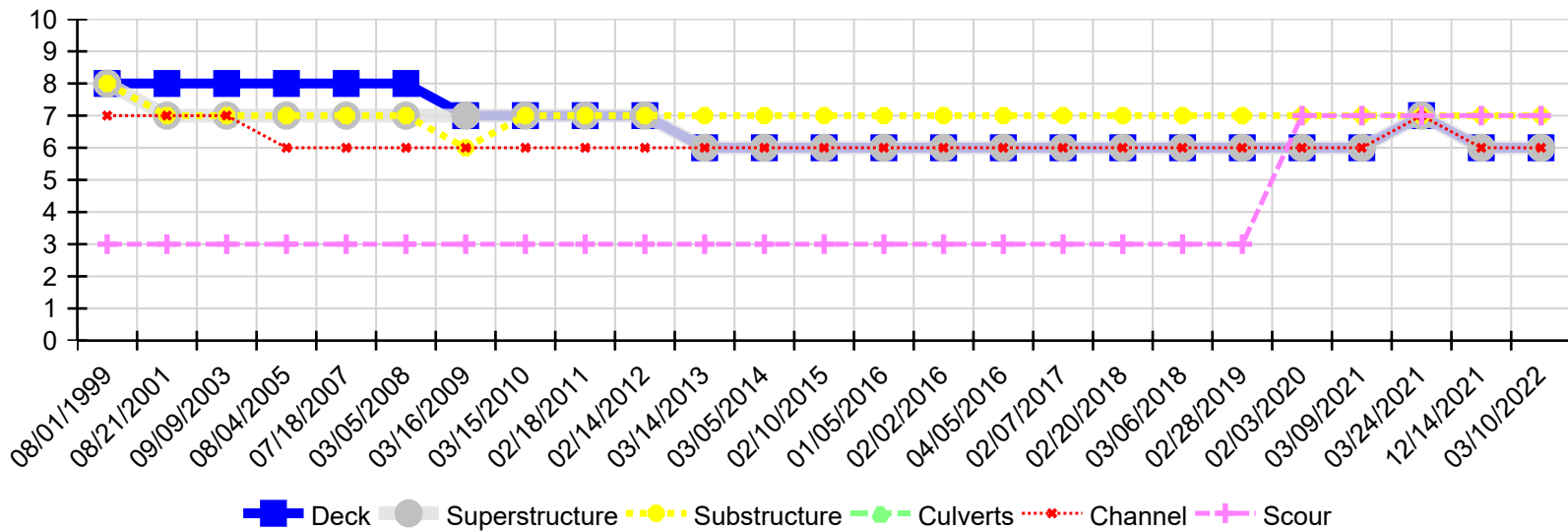
Asset #03592(Underwater type 2)

SH 4-17 LM 6.41 over Canal No. 43

Location: 6.41 Mi E US 65-McGehee

Team Lead: Sharon Hooks, Inspection Date: 03/10/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
03/10/2022	6	6	7	N	6	7
12/14/2021	6	6	7	N	6	7
03/24/2021	7	7	7	N	7	7
03/09/2021	6	6	7	N	6	7
02/03/2020	6	6	7	N	6	7
02/28/2019	6	6	7	N	6	3
03/06/2018	6	6	7	N	6	3
02/20/2018	6	6	7	N	6	3
02/07/2017	6	6	7	N	6	3
04/05/2016	6	6	7	N	6	3
02/02/2016	6	6	7	N	6	3
01/05/2016	6	6	7	N	6	3
02/10/2015	6	6	7	N	6	3
03/05/2014	6	6	7	N	6	3
03/14/2013	6	6	7	N	6	3
02/14/2012	7	7	7	N	6	3
02/18/2011	7	7	7	N	6	3
03/15/2010	7	7	7	N	6	3
03/16/2009	7	7	6	N	6	3
03/05/2008	8	7	7	N	6	3
07/18/2007	8	7	7	N	6	3
08/04/2005	8	7	7	N	6	3
09/09/2003	8	7	7	N	7	3
08/21/2001	8	7	7	N	7	3
08/01/1999	8	8	8	N	7	3