



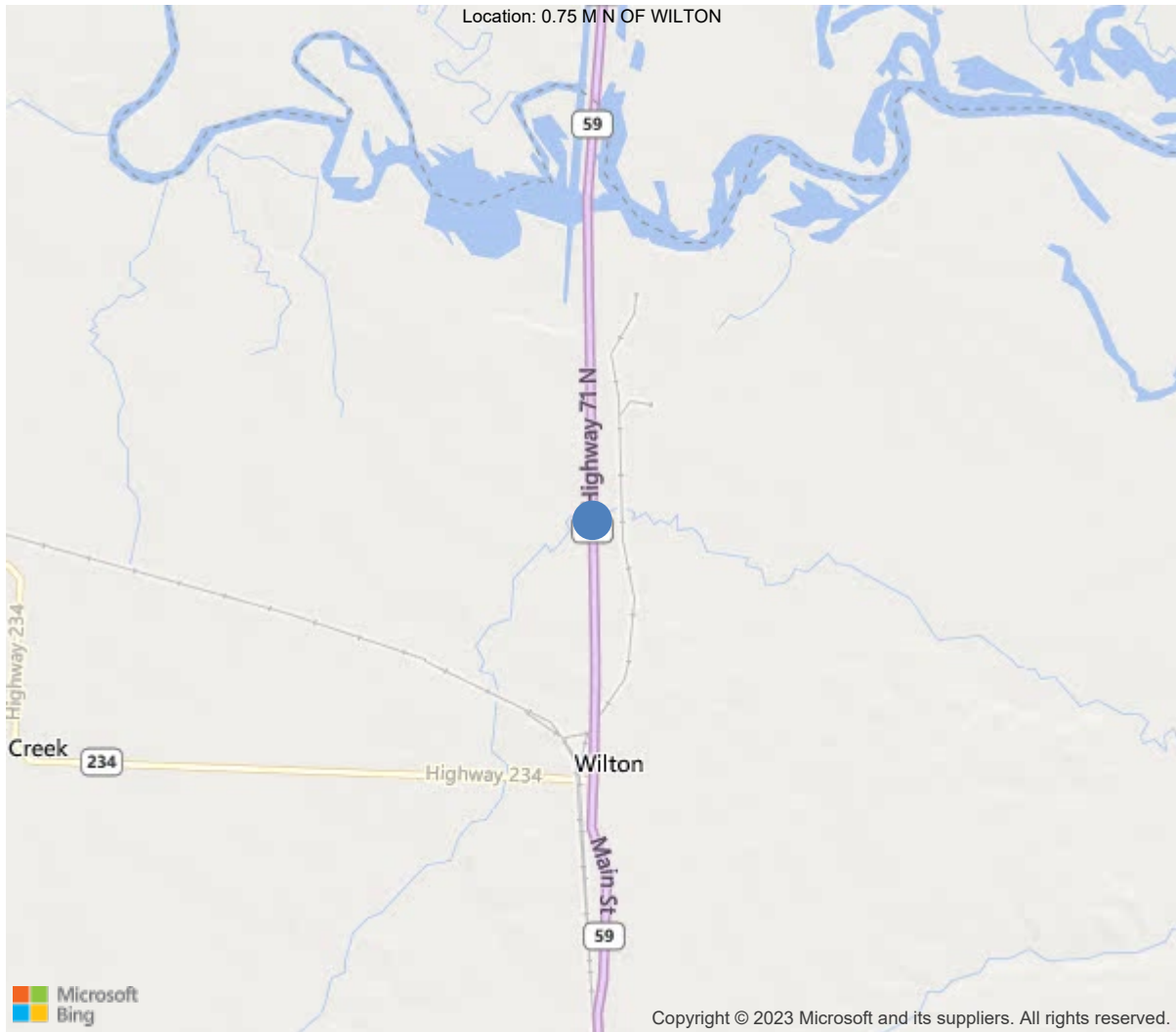
Latitude:33.76009, Longitude:-94.14816

Route:71 Section:04 Log:16.8

Arnold Road ID:41x71x4xA, Arnold Log mile:16.618

District 03, 81 - Little River County

Owner: 1 - State Highway Agency



33.76009, -94.14816





Asset #03673(Routine)

US 71 SEC.04-16.80 over LICK CREEK

Location: 0.75 M N OF WILTON

Team Lead: Jared Kegley, Inspection Date: 03/22/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03673
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	81 - Little River County
(4) Place Code	0
(6) Features Intersected	LICK CREEK
(7) Facility Carried	US 71 SEC.04-16.80
(9) Location	0.75 M N OF WILTON
(11) Mile Point	16.8 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.7600900914903
(17) Longitude	-94.1481605190144
(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	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1965
(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	5700
(30) Year of ADT	2018
(109) Truck ADT	13 %
(19) Bypass, Detour Length	45 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	80 ft
(49) Structure Length	242 ft
(50) Curb or Sidewalk Width	
Left	1.6 ft
Right	1.6 ft
(51) Bridge Roadway Width Curb to Curb	28 ft
(52) Deck Width Out to Out	33.5 ft
(32) Approach Roadway Width (W/Shoulders)	40 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	28 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	1
(26) Functional Class	2 - Rural Principal Arterial -
(100) Defense Highway	2 - The inventory route is on
(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	1 - The inventory route is par
(20) Toll	3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	2 - Bridge is eligible for the
CONDITION	
(58) Deck	4
(59) Superstructure	7
(60) Substructure	6
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5 - MS 18 / HS 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	60
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	36
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	7
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(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	5 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	34 - Widening of existing brid
(76) Length of Structure Improvement	242 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 324
(96) Total Project Cost	\$ 742
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	5892
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	03/22/2023		
(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.			

**General Observation****47 - Inventory Rte Total Horz Clearance (28)**

Measurement was taken from curb to curb due to concrete curb being more than 6" in height.

**58 - Deck (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour)**

Deck is rated a 4 this inspection due to over 50 percent of top side of deck having patchwork. Underside of deck has large spalling with rebar exposed as well as map cracking throughout all spans.

**59 - Superstructure (7 - GOOD CONDITION - some minor problems.)**

Superstructure is rated a 7 due to minor corrosion on various beam ends.

**60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)**

Dropped substructure rating to a 6 due to various areas of spalls with rebar exposed and large cracking throughout caps and 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.)**

Dropped channel rating from to a 6 this inspection due to bank beginning to slump.

**A-46 - Asset Files****A-53 - PermitHorizontalClearance (28)**

Measurement was taken from curb to curb due to concrete curb being more than 6" in height.

**A-54 - Sealable Deck Cracks (Y)**

Sealable deck cracks throughout all spans.

**A-57 - Beam End and Bearing Painting Needed (Y)**

Beam end painting needed.

**A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS) (6 - Widespread minor or isolated moderate scour.)**

Scour rating is a 6 due to moderate scour near piers at channel.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7080	2176	1000	3904	0
1080	Delamination/Spall/Patched Area	SF	3890	0	0	3890	0
1090	Exposed Rebar	SF	14	0	0	14	0
1130	Cracking (RC and Other)	SF	1000	0	1000	0	0
(12) Underside of deck Span 1 Bay 1, 3 ft crack 20 ft of cracking span 3 bay 2 Span 1- 2' rebar exposed CS3. 15' delams/ spalls/ patched area CS2. Span 2- 6' CS2 delams/ spalls/ patched area. 7' CS3 rebar exposed. 5' CS2 efflorescence. Span 3- 5' CS3 rebar exposed. 7' CS2 delams/ spalls/ patched areas. 1000' cracking in underside of deck CS2.							
Top side Span 1- 40' new patched area Span 2- 50' new patched area Span 3- 35' new patched area 03/21/2022... Special inspection done on deck found new spalled and delam areas on underside of deck, deck is over 50 percent patched and old patchwork is hollow in various locations							
1000' cracking in underside of deck CS2. (1090-12) 03/2022... End span of bridge has spall							
107	Steel Open Girder/Beam	LF	1200	1185	15	0	0
1000	Corrosion	LF	15	0	15	0	0
515	Steel Protective Coating	SF	9600	9570	0	0	30
3440	Effectiveness (Steel Protective Coatings)	LF	30	0	0	0	30
(107) BEAMS PAINTED IN 2011 Span 1- 5' CS2 corrosion at end of beams Span 2- 10' CS2 corrosion to beam ends (515-107) Corrosion on beam ends, lose off steel protective coating							
205	Reinforced Concrete Column	EA	4	1	1	2	0
1090	Exposed Rebar	EA	1	0	0	1	0
1120	Efflorescence/Rust Staining	EA	1	0	1	0	0
1130	Cracking (RC and Other)	EA	1	0	0	1	0
(205) BENT 2 crack in web wall from top to bottom (note crack is seen on both side of wall) .large spall in wall w/rebar exposed.. column 1 span 1 side large delam and crack. column 2 span 2 side small crack with efflorescence and a small delam BENT 3 COLUMN #2 RT. SIDE SPALL ON CORNER & SOUTH FACE W/REBAR EXPOSED AND DELAMINATIONS. Bent 3 crack in web wall SPAN 3 SIDE ONLY.....							
Bent 2 column 1- 1' efflorescence Bent 3 column 2- CS3 efflorescence Bent 3 column 1- CS3 cracking							

**Team Lead: Jared Kegley, Inspection Date: 03/22/2023**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
210	Reinforced Concrete Pier Wall	LF	30	29	0	1	0
1090	Exposed Rebar	LF	1	0	0	1	0
(210) Bent 2 Pier wall- 1' CS3 rebar exposed.							
215	Reinforced Concrete Abutment	LF	77	77	0	0	0
234	Reinforced Concrete Pier Cap	LF	58	41	8	9	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
1090	Exposed Rebar	LF	9	0	0	9	0
1130	Cracking (RC and Other)	LF	5	0	5	0	0
(234) CRACKING, SPALLS AND SOME REBAR EXPOSED AT BENT 2 CAP SPAN 1 SIDE. Bent 2- 9' CS3 rebar exposed in cap. 2' CS2 Delam. 5' CS2 cracking Bent 3 cap- 1' CS2 Delam							
305	Assembly Joint without Seal	LF	112	112	0	0	0
(305) Freckled rust on all joints, various locations							
311	Movable Bearing	EA	15	0	15	0	0
1000	Corrosion	EA	15	0	15	0	0
(311) 15' CS2 corrosion.							
313	Fixed Bearing	EA	15	0	15	0	0
1000	Corrosion	EA	15	0	15	0	0
(313) 15' CS2 corrosion.							
330	Metal Bridge Railing	LF	484.3	213.3	261	10	0
1000	Corrosion	LF	260	0	250	10	0
1020	Connection	LF	10	0	10	0	0
7000	Damage	LF	1	0	1	0	0
(330) Span 2 RT side is loose							
331	Reinforced Concrete Bridge Railing	LF	484	431	50	3	0
1090	Exposed Rebar	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	50	0	50	0	0
7000	Damage	LF	1	0	0	1	0
(331) 2' CS3 rebar exposed in span 2. 1' CS3 damage. 50' CS2 cracking							



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## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7080	2176	1000	3904	0
1080	Delamination/Spall/Patched Area	SF	3890	0	0	3890	0
1090	Exposed Rebar	SF	14	0	0	14	0
1130	Cracking (RC and Other)	SF	1000	0	1000	0	0
(12) Underside of deck Span 1 Bay 1, 3 ft crack 20 ft of cracking span 3 bay 2 Span 1- 2' rebar exposed CS3. 15' delams/ spalls/ patched area CS2. Span 2- 6' CS2 delams/ spalls/ patched area. 7' CS3 rebar exposed. 5' CS2 efflorescence. Span 3- 5' CS3 rebar exposed. 7' CS2 delams/ spalls/ patched areas. 1000' cracking in underside of deck CS2.  Top side Span 1- 40' new patched area Span 2- 50' new patched area Span 3- 35' new patched area 03/21/2022... Special inspection done on deck found new spalled and delam areas on underside of deck, deck is over 50 percent patched and old patchwork is hollow in various locations  1000' cracking in underside of deck CS2.  (1090-12) 03/2022... End span of bridge has spall							

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Comment: Deck is rated a 4 this inspection due to over 50 percent of top side of deck having patchwork. Underside of deck has large spalling with rebar exposed as well as map cracking throughout all spans.





Asset #03673(Routine)

US 71 SEC.04-16.80 over LICK CREEK

Location: 0.75 M N OF WILTON

Team Lead: Jared Kegley, Inspection Date: 03/22/2023

## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	1200	1185	15	0	0
1000	Corrosion	LF	15	0	15	0	0
515	Steel Protective Coating	SF	9600	9570	0	0	30
3440	Effectiveness (Steel Protective Coatings)	LF	30	0	0	0	30
(107) BEAMS PAINTED IN 2011							
Span 1- 5' CS2 corrosion at end of beams							
Span 2- 10' CS2 corrosion to beam ends							
(515-107) Corrosion on beam ends, lose off steel protective coating							

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Comment: Superstructure is rated a 7 due to minor corrosion on various beam ends.



## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	4	1	1	2	0
1090	Exposed Rebar	EA	1	0	0	1	0
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(205) BENT 2 crack in web wall from top to bottom (note crack is seen on both side of wall) .large spall in wall w/rebar exposed.. column 1 span 1 side large delam and crack. column 2 span 2 side small crack with efflorescence and a small delam BENT 3 COLUMN #2 RT. SIDE SPALL ON CORNER & SOUTH FACE W/REBAR EXPOSED AND DELAMINATIONS. Bent 3 crack in web wall SPAN 3 SIDE ONLY.....  Bent 2 column 1- 1' efflorescence Bent 3 column 2- CS3 efflorescence Bent 3 column 1- CS3 cracking							
210	Reinforced Concrete Pier Wall	LF	30	29	0	1	0
1090	Exposed Rebar	LF	1	0	0	1	0
(210) Bent 2 Pier wall- 1' CS3 rebar exposed.							
215	Reinforced Concrete Abutment	LF	77	77	0	0	0
234	Reinforced Concrete Pier Cap	LF	58	41	8	9	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
1090	Exposed Rebar	LF	9	0	0	9	0
1130	Cracking (RC and Other)	LF	5	0	5	0	0
(234) CRACKING,SPALLS AND SOME REBAR EXPOSED AT BENT 2 CAP SPAN 1 SIDE. Bent 2- 9' CS3 rebar exposed in cap. 2' CS2 Delam. 5' CS2 cracking Bent 3 cap- 1' CS2 Delam							

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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4





Beam end corrosion bent 3



Bent 3 column 1 cracking



Scour



Bent 3 column 2 CS3 rebar exposed





Bent 3 cap Delam



Delaminations on underside of deck



Exposed rebar span 3 RT side



Sealable deck cracking





Bridge railing damage RT side



Rebar exposed bridge railing



Deck cracking



Span 3 patched area





Metal bridge railing



Span 1 patched area



Channel



Channel





Scour



Scour



Exposed rebar on overhangs.



Underside of deck photo





Bent 2 column 1 efflorescence



Span 1 corrosion



Span 1 corrosion



Pier wall at bent 2 rebar exposed





Bent 2 cap



Spalls on underside of deck



Bent photo



Cracking on underside of deck





Efflorescence in underside of deck



Patched area underside of deck



Beam photo



Cracking on underside of deck





Beam photo



Span 1 underside of deck Rt side rebar exposed



Elevation



Alignment



Deck photo



**Maintenance Needs**

**Date Reported:** 03/22/2022

**Priority:** D- Routine

**Type of Work:** Repair (General)

**Status:** Open

**Component:** Deck

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**Deficiency Description**

03/2022... over 50 percent of deck is patched some patches are not sound, small spalls and delams on underside of deck at various locations

**Remarks**

Re-opened MN for review to assign or monitor.

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03/2022... end span spall



03/2022... typical deck all spans

**Maintenance Needs**

**Date Reported:** 03/28/2023

**Priority:** D- Routine

**Type of Work:** Miscellaneous

**Status:** Open

**Component:** Miscellaneous

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**Deficiency Description**

Trees growing under and along both sides of bridge in all spans.

**Remarks**

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Trees under bridge



Trees under bridge





Asset #03673(Routine)

US 71 SEC.04-16.80 over LICK CREEK

Location: 0.75 M N OF WILTON

Team Lead: Jared Kegley, Inspection Date: 03/22/2023

## Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	Yes
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	Yes
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	
A-63 Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	



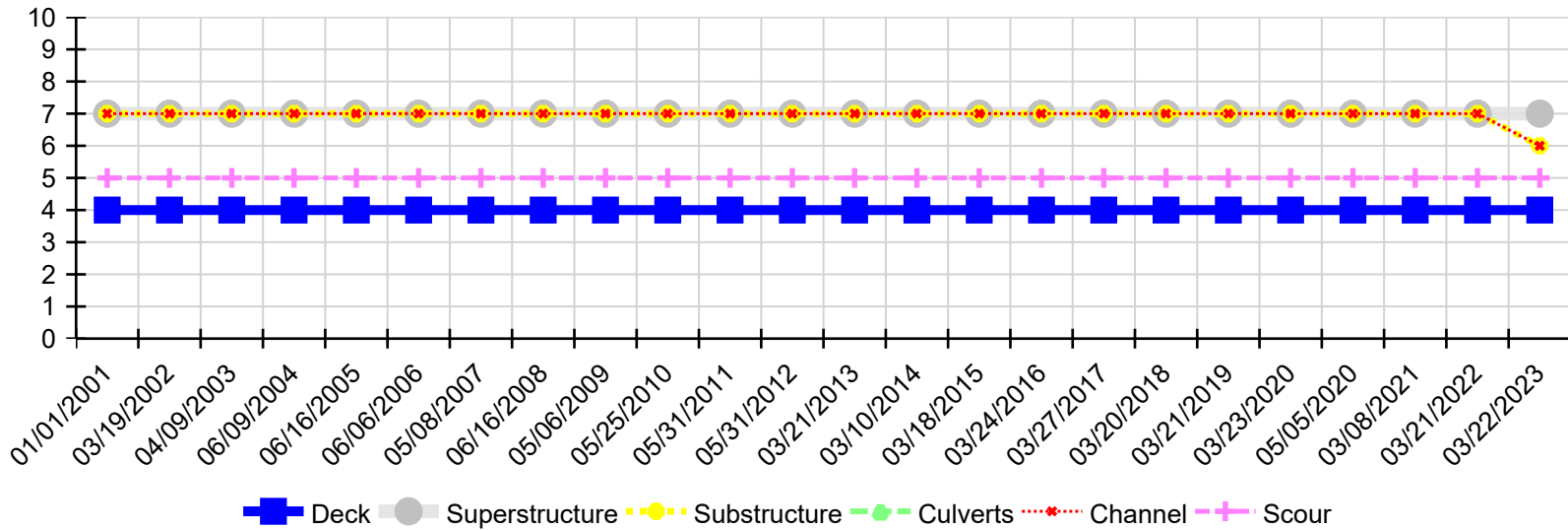
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Location: 0.75 M N OF WILTON

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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
03/22/2023	4	7	6	N	7	5
03/21/2022	4	7	7	N	7	5
03/08/2021	4	7	7	N	7	5
05/05/2020	4	7	7	N	7	5
03/23/2020	4	7	7	N	7	5
03/21/2019	4	7	7	N	7	5
03/20/2018	4	7	7	N	7	5
03/27/2017	4	7	7	N	7	5
03/24/2016	4	7	7	N	7	5
03/18/2015	4	7	7	N	7	5
03/10/2014	4	7	7	N	7	5
03/21/2013	4	7	7	N	7	5
05/31/2012	4	7	7	N	7	5
05/31/2011	4	7	7	N	7	5
05/25/2010	4	7	7	N	7	5
05/06/2009	4	7	7	N	7	5
06/16/2008	4	7	7	N	7	5
05/08/2007	4	7	7	N	7	5
06/06/2006	4	7	7	N	7	5
06/16/2005	4	7	7	N	7	5
06/09/2004	4	7	7	N	7	5
04/09/2003	4	7	7	N	7	5
03/19/2002	4	7	7	N	7	5
01/01/2001	4	7	7	N	7	5