



Latitude:33.77032, Longitude:-92.51381

Route:79 Section:05 Log:4.599

Arnold Road ID:7x79x5xA, Arnold Log mile:4.652

District 07, 13 - Calhoun County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

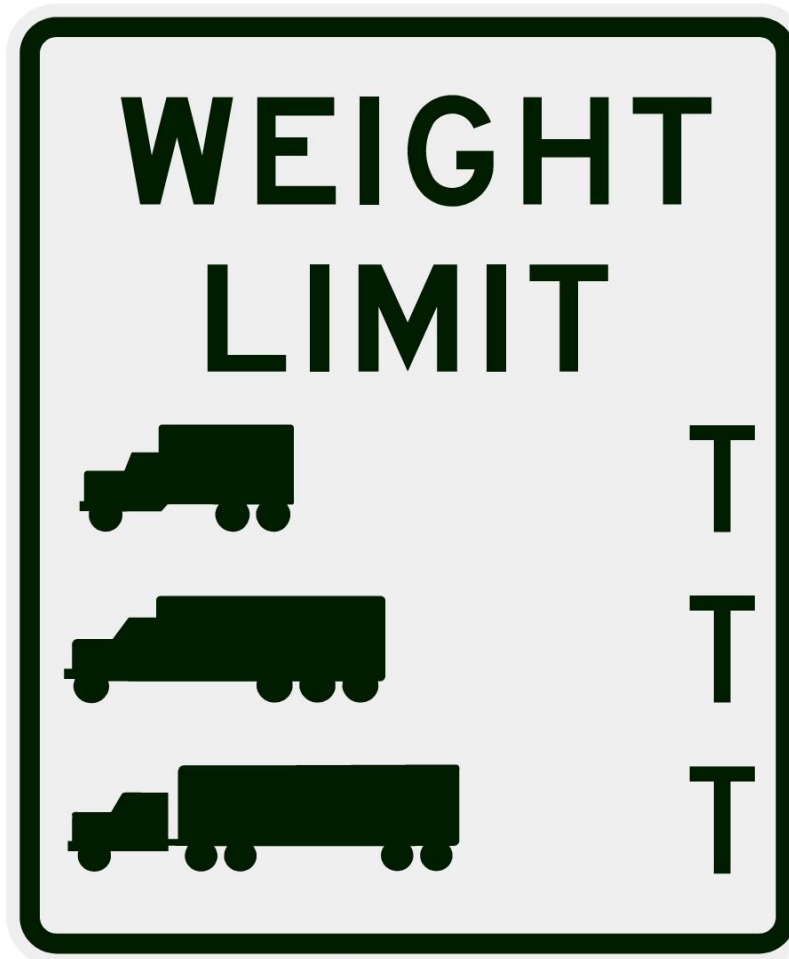
Bridge Posting Information

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

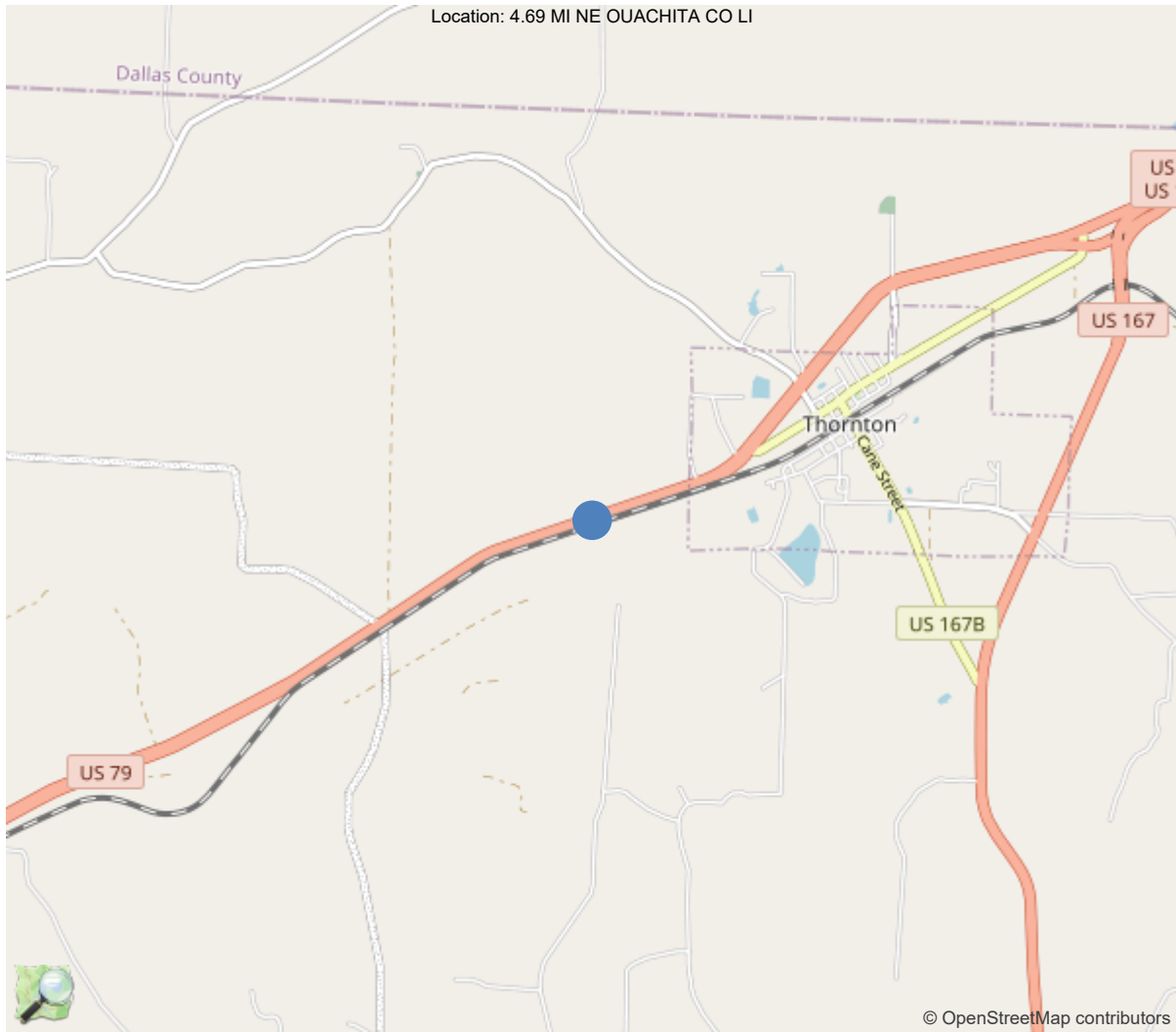
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	50		
Code 5 (40 Tons)	60		

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



33.77032, -92.51381



Asset #A5944(Routine, Underwater type 2)
US79 NB S5 LM4.60 over CHAMPAGNOLLE CREEK
Location: 4.69 MI NE OUACHITA CO LI
Team Lead: John Parks Inspection Date: 05/08/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	A5944
(5) Inventory Route	1
(2) Highway Agency District	07 - District 07
(3) County Code	13 - Calhoun County
(4) Place Code	0
(6) Features Intersected	CHAMPAGNOLLE CREEK
(7) Facility Carried	US79 NB S5 LM4.60
(9) Location	4.69 MI NE OUACHITA CO LI
(11) Mile Point	4.599 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000079050
(16) Latitude	33.77032
(17) Longitude	-92.51381
(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	6
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	0 - None (no additional concrete thickne
Type of Membrane	0 - None
Type of Deck Protection	9 - Other
AGE AND SERVICE	
(27) Year Built	1997
(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	4400
(30) Year of ADT	2018
(109) Truck ADT	14 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	150 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	40.4 ft
(52) Deck Width Out to Out	42.8 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	40.4 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	0 - The inventory route is not
(101) Parallel Structure	R - The right structure of par
(102) Direction of Traffic	1 - 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	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	7
(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	
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	5 - Bridge foundations determined t
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	2328
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	05/08/2023		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	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.			



SNBI #A5944(Routine, Underwater type 2)

Team Lead: John Parks, Inspection Date: 05/08/2023

IDENTIFICATION	
B.ID.01 Bridge Number	A5944
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	13 - Calhoun County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	07 - District 07
B.L.05 Latitude	33.77032
B.L.06 Longitude	-92.51381
B.L.07 Border Bridge Number	
B.L.08 Border Bridge State or Country Code	
B.L.09 Border Bridge Insp. Resp.	
B.L.10 Border Bridge Designated Lead State	
B.L.11 Bridge Location	
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	
B.CL.02 Maint. Responsibility	
B.CL.03 Federal or Tribal Land Access	
B.CL.04 Historic Significance	
B.CL.05 Toll	
B.CL.06 Emergency Evacuation Designation	

ROADSIDE HARDWARE	
B.RH.01A Bridge Railing Type	
B.RH.01B Bridge Railing Year (YY)	
B.RH.01C Bridge Railing Test Level	
B.RH.02A Transition Type	
B.RH.02B Transition Year (YY)	
B.RH.02C Transition Test Level	

BRIDGE GEOMETRY	
B.G.01 NBIS Bridge Length	
B.G.02 Total Bridge Length	
B.G.03 Max Span Length	
B.G.04 Min Span Length	
B.G.05 Bridge Width Out-to-Out	
B.G.06 Bridge Width Curb-to-Curb	
B.G.07 Left Curb or Sidewalk Width	
B.G.08 Right Curb or Sidewalk Width	
B.G.09 Approach Roadway Width	

B.G.10 Bridge Median	
B.G.11 Skew	
B.G.12 Curved Bridge	
B.G.13 Max Bridge Height	
B.G.14 Sidehill Bridge	
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	

LOADS AND LOAD RATING	
B.LR.01 Design Load	
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	
B.LR.05 Inventory Load Rating Factor	
B.LR.06 Operating Load Rating Factor	
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	
B.IR.02 Fatigue Details	
B.IR.03 UW Inspection Required	
B.IR.04 Complex Feature	

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	
B.C.02 Superstructure Condition	
B.C.03 Substructure Condition	
B.C.04 Substructure Condition	
B.C.05 Bridge Railing Condition	
B.C.06 Bridge Railing Transitions Condition	
B.C.07 Bridge Bearings Cond.	
B.C.08 Bridge Joints Condition	
B.C.09 Channel Condition Rating	
B.C.10 Channel Protection Condition	
B.C.11 Scour Condition Rating	
B.C.12 Bridge Condition Classification	
B.C.13 Lowest Condition Rating	
B.C.14 NSTM Insp. Condition	
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	
B.AP.02 Overtopping Likelihood	
B.AP.03 Scour Vulnerability	
B.AP.04 Scour Plan of Action	
B.AP.05 Seismic Vulnerability	



Team Lead: John Parks, **Inspection Date:** 05/08/2023

POSTING STATUS DATA	
B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date

LOAD EVALUATION AND POSTING			
B.EP.01 Legal Load Configuration	B.EP.02 Legal Load Rating Factor	B.EP.03 Posting Type	B.EP.04 Posting Value



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US79 NB S5 LM4.60 over CHAMPAGNOLLE CREEK
Location: 4.69 MI NE OUACHITA CO LI
Team Lead: John Parks Inspection Date: 05/08/2023

General Observation

This structure is logged from Southwest to Northeast.

58 - Deck (7 - GOOD CONDITION - some minor problems.)

Longitudinal cracks up to 0.030" and light abrasion right wheel path right lane.

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

Cracks with efflorescence minor spalling with exposed rebar.

60 - Substructure (7 - GOOD CONDITION - some minor problems.)

Local scour at bents 2-6 bents 2 and 5 have spalls.

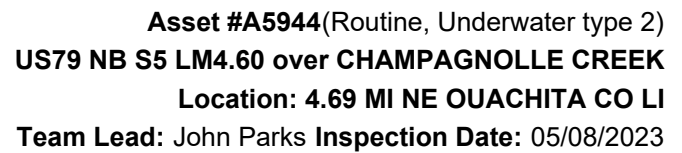
61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)
Banks are slumping and debris in channel.

A-51 - Inspection Direction (2 - S to N)

Approach

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

Bents 2-6 minor local scour around piles.



ELEMENTS		DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab		SF	6000	5103	805	92	0
1080	Delamination/Spall/Patched Area		SF	11	0	9	2	0
1090	Exposed Rebar		SF	1	0	1	0	0
1120	Efflorescence/Rust Staining		SF	285	0	195	90	0
1130	Cracking (RC and Other)		SF	300	0	300	0	0
1190	Abrasion/Wear (PSC/RC)		SF	300	0	300	0	0
(38) Span 1: -75' of eff CS: 2 Span 2: -25' of eff CS: 2 Span 3: -15' of eff CS: 2 - 8' of delam CS: 2 Span 4: -50' eff CS: 3 Span 5: -40' of eff CS: 3 -2' of spall CS: 3 -1' of exposed rebar CS: 2 Span 6: -80' of eff CS: 2 All span -50' of abrasion Longitudinal cracks up to 0.030" wide entire length with efflorescence reflecting to the bottom of slab.								
215	Reinforced Concrete Abutment		LF	126	126	0	0	0
227	Reinforced Concrete Pile		EA	30	13	17	0	0
1190	Abrasion/Wear (PSC/RC)		EA	6	0	6	0	0
6000	Scour		EA	11	0	11	0	0
(227) Bent 3: -All 6 abrasion CS: 2 Bent 4: -4 scour CS: 2 Bent 5: -6 scour CS: 2 Bent 6: -1 scour CS: 2								
234	Reinforced Concrete Pier Cap		LF	301	298	1	2	0
1080	Delamination/Spall/Patched Area		LF	3	0	1	2	0
(234) Bent 2: - 1' spall CS: 3 Bent 5: - 1' spall CS: 2 - 1' spall CS: 3								



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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
301	Pourable Joint Seal	LF	214	94	120	0	0
2320	Seal Adhesion	LF	80	0	80	0	0
2350	Debris Impaction	LF	40	0	40	0	0
(301) Joint material is loosing adhesion and becoming impacted with debris.							
331	Reinforced Concrete Bridge Railing	LF	300	300	0	0	0



Elevation



Approach



Deck overview



Underview



Typical substructure



Typical substructure



Left side channel



Right side channel



Name plate



Typical deck cracks upto 0.030".



Span 4 efflorescence



Bent 4 pile 6 local scour



Typical joint material

Maintenance Needs

Date Reported: 05/04/2011

Priority: D- Routine

Type of Work: Substructure Repair

Status: Monitor

Component: Substructure

Deficiency Description

Bent 2 left end of cap has a large spall.
Bent 5 Cap, right end has a large spall.

Remarks



01/01/2020

Bent 5 Rt. Looking back @ spall on ahead side of cap.



05/13/2021

Bent 2 left end of cap spalled



05/09/2023

Bent 5 right end of cap spalled

Maintenance Needs

Date Reported: 05/09/2023

Priority: D- Routine

Type of Work: Channel Work/Drift Removal

Status: Open

Component: Channel

Deficiency Description

Bent 3 pile have logs and debris washed up against them.

Remarks



Drift at bent 3



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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	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	Yes
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	Yes
A-62 - Hydro and LMC Advised	
A-63 - Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	

A-54 - Sealable Deck Cracks (Yes)

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



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A-57 - Girder End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed (Yes)

A-60 - Full Girder Painting Needed

A-61 - Polymer Overlay Advised (Yes)

A-62 - Hydro and LMC Advised

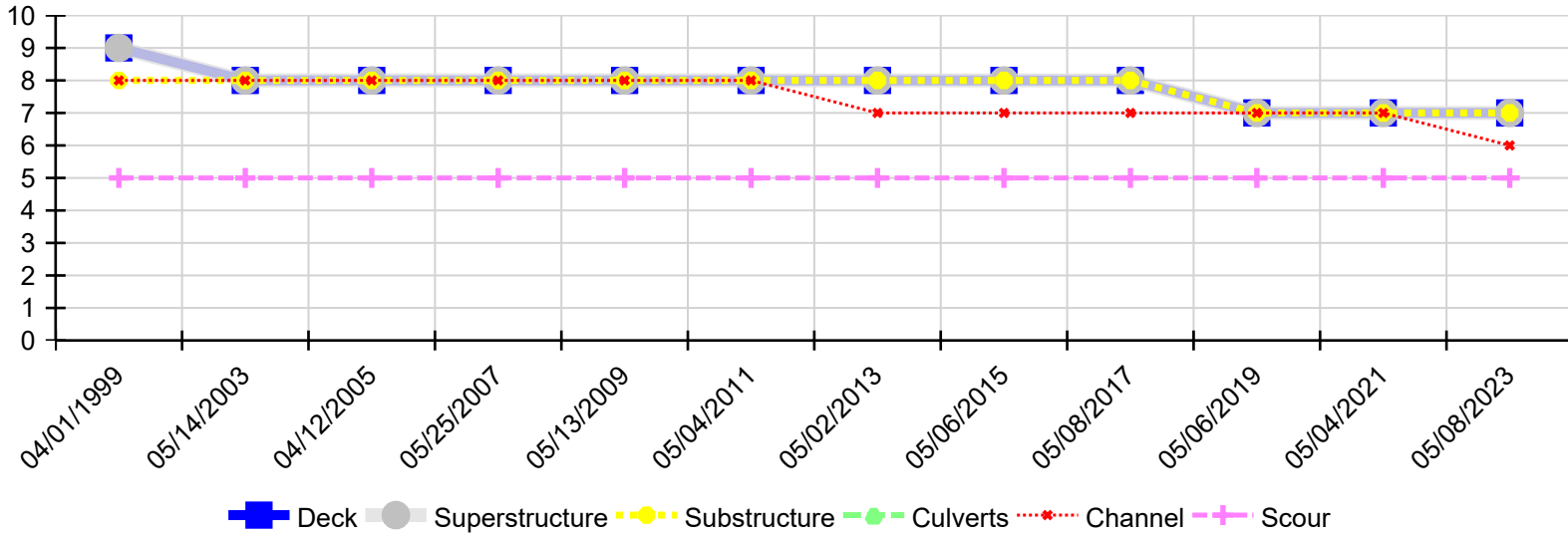
A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested



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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
05/08/2023	7	7	7	N	6	5
05/04/2021	7	7	7	N	7	5
05/04/2021	7	7	7	N	7	5
05/06/2019	7	7	7	N	7	5
05/08/2017	8	8	8	N	7	5
05/06/2015	8	8	8	N	7	5
05/02/2013	8	8	8	N	7	5
05/04/2011	8	8	8	N	8	5
05/13/2009	8	8	8	N	8	5
05/25/2007	8	8	8	N	8	5
04/12/2005	8	8	8	N	8	5
05/14/2003	8	8	8	N	8	5
04/01/1999	9	9	8	N	8	5