

## Bridge 06345 Inspection Report



Latitude:33.93247, Longitude:-93.44421

Route:19 Section:05 Log:9.9

Arnold Road ID:50x19x5xA, Arnold Log mile:9.899

District 03, 99 - Nevada County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

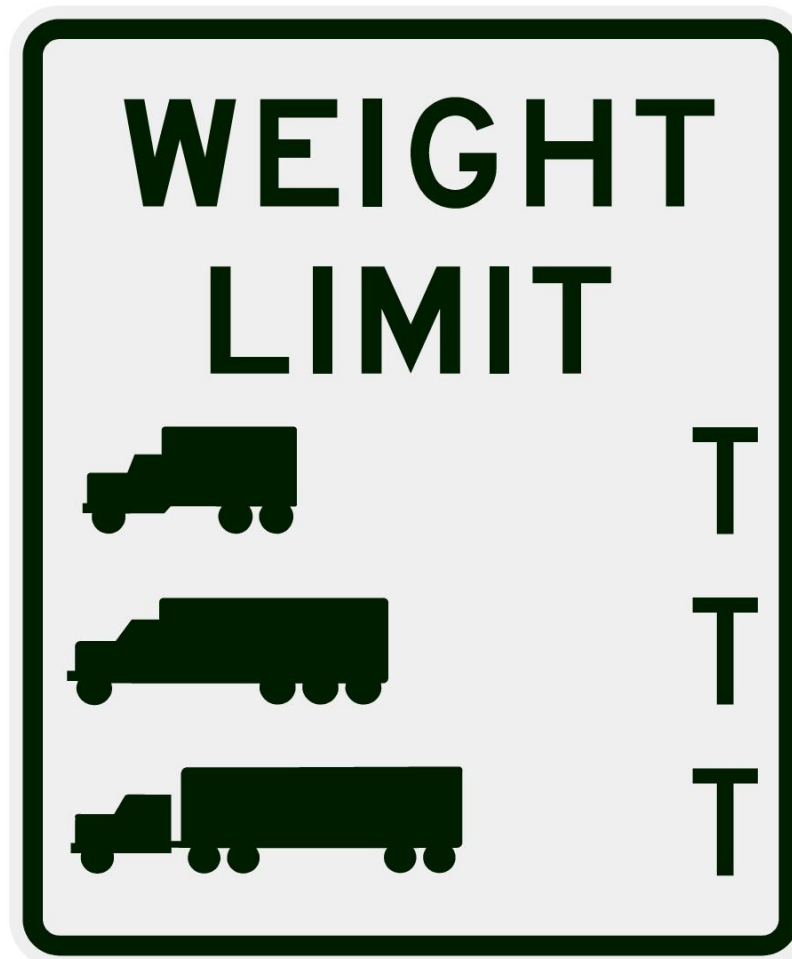
### Bridge Posting Information

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

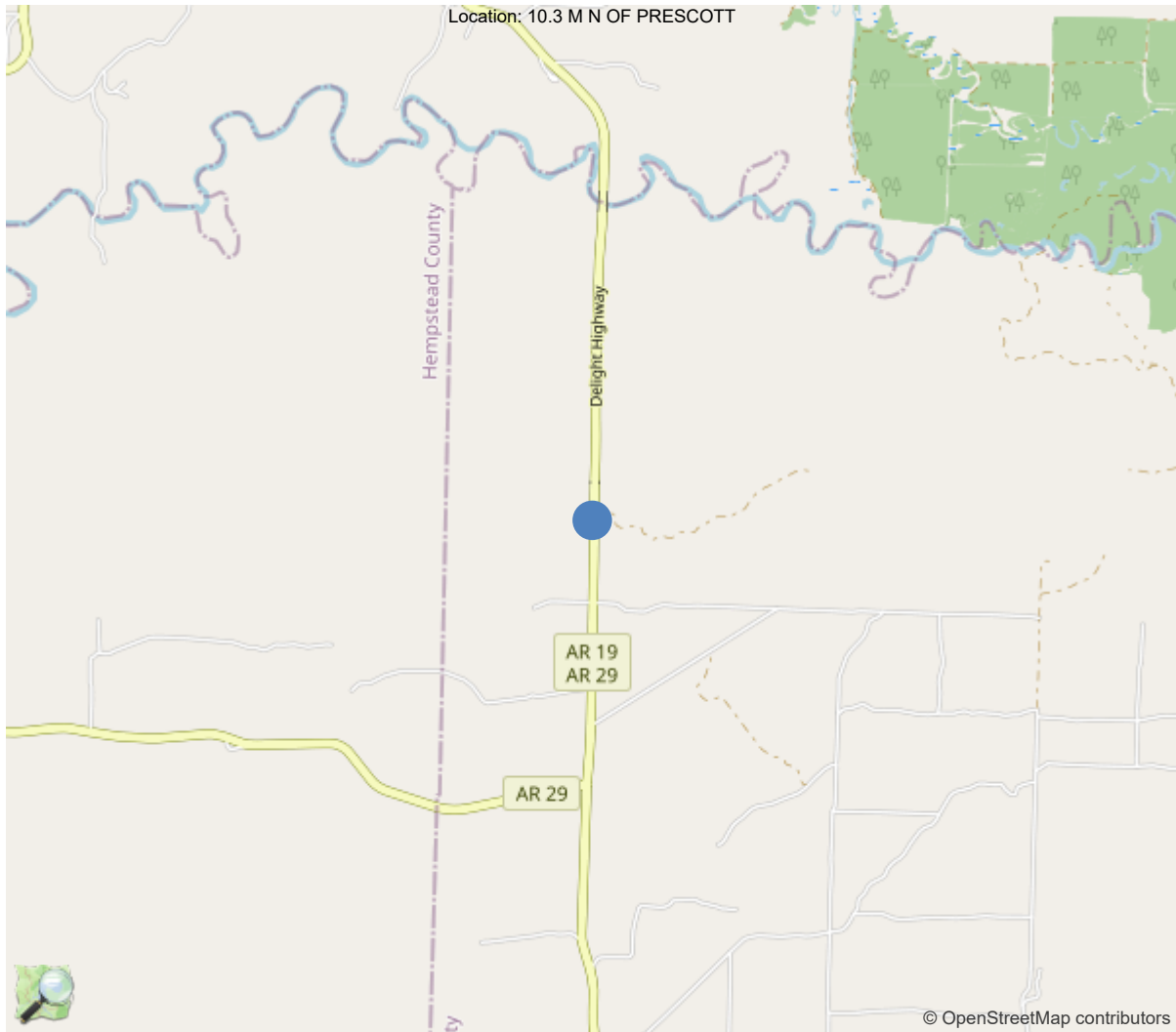
70 - Bridge Posting: 5 - Equal to or above legal loads

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)	47		
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



33.93247, -93.44421



# National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06345
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	99 - Nevada County
(4) Place Code	0
(6) Features Intersected	NUMBER ONE BAYOU
(7) Facility Carried	S.H. 19 -05 - 9.90
(9) Location	10.3 M N OF PRESCOTT
(11) Mile Point	9.9 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.93247
(17) Longitude	-93.44421
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1 - Concrete
Type	4 - Tee beam
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	9
(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	1991
(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	840
(30) Year of ADT	2018
(109) Truck ADT	31 %
(19) Bypass, Detour Length	26 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	225 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	43 ft
(32) Approach Roadway Width (W/Shoulders)	42 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	41.3 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	7
(59) Superstructure	7
(60) Substructure	7
(61) Channel & Channel Protection	7
(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	8
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(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	
(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	0
(114) Future ADT	1061
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			10/02/2023
(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.			



**Team Lead:** John King, **Inspection Date:** 10/02/2023

## Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	06345
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	99 - Nevada County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	03 - District 03
B.L.05 Latitude	33.93247
B.L.06 Longitude	-93.44421
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 Culvert 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 King, Inspection Date: 10/02/2023

HIGHWAY ROUTES					
Highway Parent	B.RT.01 Route Designation	B.RT.02 Route Number	B.RT.03 Route Direction	B.RT.04 Route Type	B.RT.05 Service Type

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



Asset #06345(Routine)

S.H. 19 -05 - 9.90 over NUMBER ONE BAYOU

Location: 10.3 M N OF PRESCOTT

Team Lead: John King Inspection Date: 10/02/2023

## Inspection Notes

### 27 - Year Built (1991)

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

Deck 7 good due to minor cracking in deck. All spans, efflorescence in bottom of deck.

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

Sub Structure is in good condition Minor cracking in tee beams in all spans.

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

Sub in in good condition

Note steel piles with concrete encasement.

Piles: Bent 8 pile 5 bottom of concrete ENCASEMENT EXPOSED

### 61 - Channel/Channel Protection (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)

Channel in good condition up and down stream

### A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS) (7 - Some minor scour.)

Some minor scour around bents and in channel.

area is under bridge in channel.





## Inspection Photos and Notes



Last span bay 2 and 3 efflorescence bottom of deck



Minor scour under bridge



Typical photo of joints



Channel on left side bridge





Channel on right side bridge



Span 7 cracking in top of deck 0.018



Joint 7 around 9 ft joint missing



Joint 4 part of poured joint missing with grass growing in joint line





Span 4 photo taken of very light cracking in tee beams  
0.010 size.



Typical photo of bents



Typical photo of tee beams



Bent 8 pile 5 concrete encasements has come apart at  
ground line exposure of rebar with heavy section loss to  
rebar. Note concrete is only encasements for steel pile





Bent 8 pile 5 concrete encasements has come apart at ground line exposure of rebar with heavy section loss to rebar. Note concrete is only encasements for steel pile



Span 5 efflorescence in bottom of deck bay 1 at bent 6 area.



Bent 5 span 5 small spall on top of cap 7 ft long.



Bent 3 light cracking in cap between piles 3 and 4 span 2 side.





Bent 3 concrete poured around steel piles.



Bent 2 cap right side bottom of cap on end small spall.



Span 1 bay 3 efflorescence in bottom of deck



Span 1 at bent 1 bay 4 efflorescence in bottom of deck





Span 1 light cracking in concrete tee beams size 0.010  
photo of beam 4



10/23 elevation photos



Joint material at bent 2



Span 1 right side cracking in parapet wall





Span 1 cracking in deck



10/23 deck photo



10/23 Deck photo



10/23 alignment photo





Bent #8 pile #5



Under photo



Erosion at under Span #6 7' deep hole width of bridge



Span #7 deck photo





Span #4 deck photo



2019 flood slope protection



Under photo end of bridge



Deck photo Span #1





SS



Erosion around bent #3



Erosion under Span #6

### Maintenance Needs

**Date Reported:** 10/14/2019

**Priority:** D- Routine

**Type of Work:** (Inactive) (Inactive) 9 - None

**Status:** Assigned

**Component:**

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### Deficiency Description

7' deep hole Erosion under Span #6 next to bent #7....

### Remarks

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Erosion at under Span #6 7' deep hole width of bridge



Erosion under Span #6



### Maintenance Needs

**Date Reported:** 10/27/2021

**Priority:** D- Routine

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

**Status:** Monitor

**Component:** Substructure

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### Deficiency Description

bent 8 pile 5 concrete material missing between the "H" pile and the concrete encasement

### Remarks

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Bent 8 pile 5 concrete encasements has come apart at ground line exposure of rebar with heavy section loss to rebar. Note concrete is only encasements for steel pile



Asset #06345(Routine)

S.H. 19 -05 - 9.90 over NUMBER ONE BAYOU

Location: 10.3 M N OF PRESCOTT

Team Lead: John King Inspection Date: 10/02/2023

## Routine Maintenance

### Check Box Maintenance Items

Type of Maintenance	Is Recommended?
A-54 - Sealable Deck Cracks	No
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	
A-62 - Hydro and LMC Advised	
A-63 - Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	
A-65 - Clogged deck drains?	
A-66 - Approach minor pothole/leveling needed	

**A-54 - Sealable Deck Cracks (No)**

**A-55 - Deck Washing Needed**

**A-56 - Joint Cleaning/Flushing Needed**



**A-57 - Girder End and Bearing Painting Needed**

**A-58 - Cap Cleaning/Flushing Needed**

**A-59 - Joint Repair Needed (Yes)**



Typical photo of joints

**A-60 - Full Girder Painting Needed**

**A-61 - Polymer Overlay Advised**

**A-62 - Hydro and LMC Advised**

**A-63 - Missing/Incorrect Log Mile Signage**



**Asset #06345**(Routine)

**S.H. 19 -05 - 9.90 over NUMBER ONE BAYOU**

**Location: 10.3 M N OF PRESCOTT**

**Team Lead: John King Inspection Date: 10/02/2023**

**A-64 - Vegetation Removal Requested**

**A-65 - Clogged deck drains?**

**A-66 - Approach minor pothole/leveling needed**





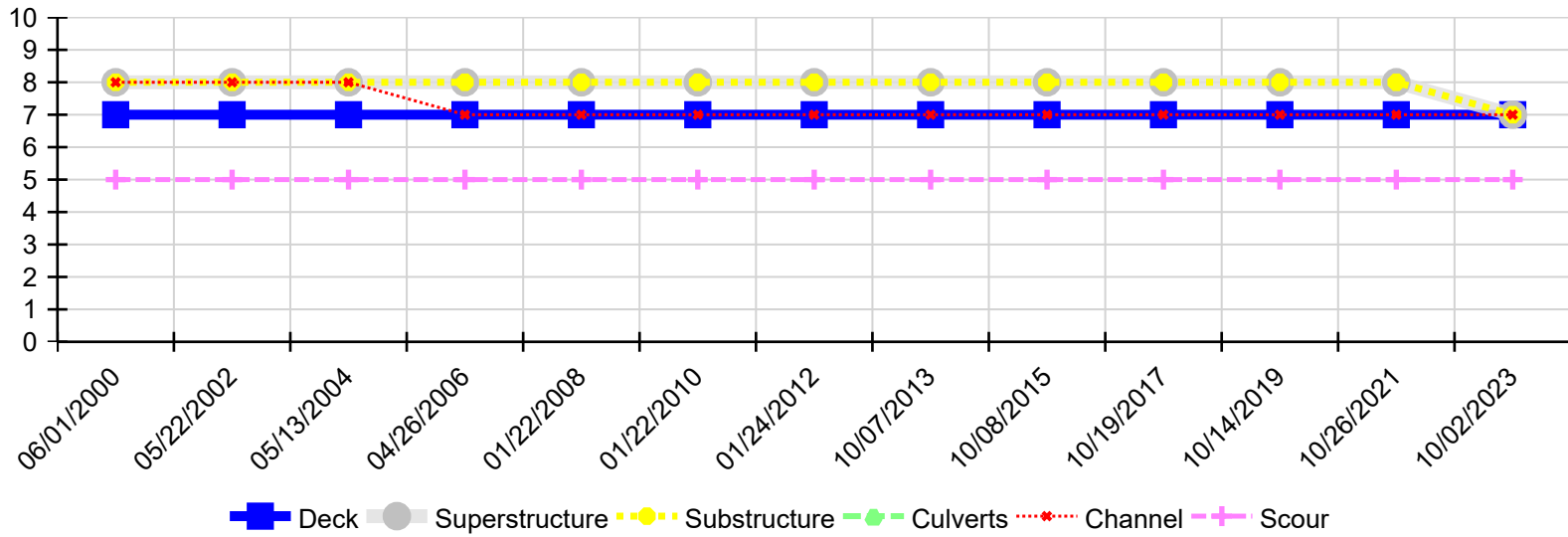
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S.H. 19 -05 - 9.90 over NUMBER ONE BAYOU

Location: 10.3 M N OF PRESCOTT

Team Lead: John King Inspection Date: 10/02/2023

### Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/02/2023	7	7	7	N	7	5
10/26/2021	7	8	8	N	7	5
10/14/2019	7	8	8	N	7	5
10/19/2017	7	8	8	N	7	5
10/08/2015	7	8	8	N	7	5
10/07/2013	7	8	8	N	7	5
01/24/2012	7	8	8	N	7	5
01/22/2010	7	8	8	N	7	5
01/22/2008	7	8	8	N	7	5
04/26/2006	7	8	8	N	7	5
05/13/2004	7	8	8	N	8	5
05/22/2002	7	8	8	N	8	5
06/01/2000	7	8	8	N	8	5