



Latitude:34.70730, Longitude:-91.45478

Route:33 Section:05 Log:3.149

Arnold Road ID:59x33x5xA, Arnold Log mile:3.143

District 06, 117 - Prairie County

Owner: 1 - State Highway Agency

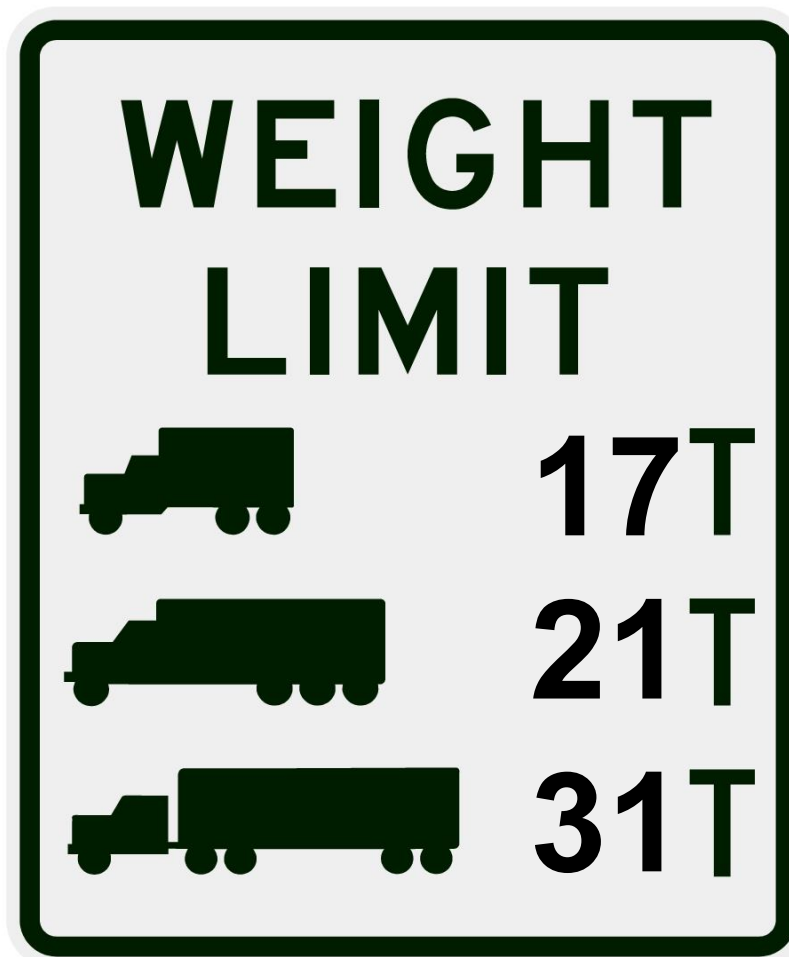
### Bridge Posting Information

41 - Structure Open/Posted/Closed: P - Posted for load (may include other restrictions such as temporary bridges which are load posted)

70 - Bridge Posting: 1 - 30.0 - 39.9 % below

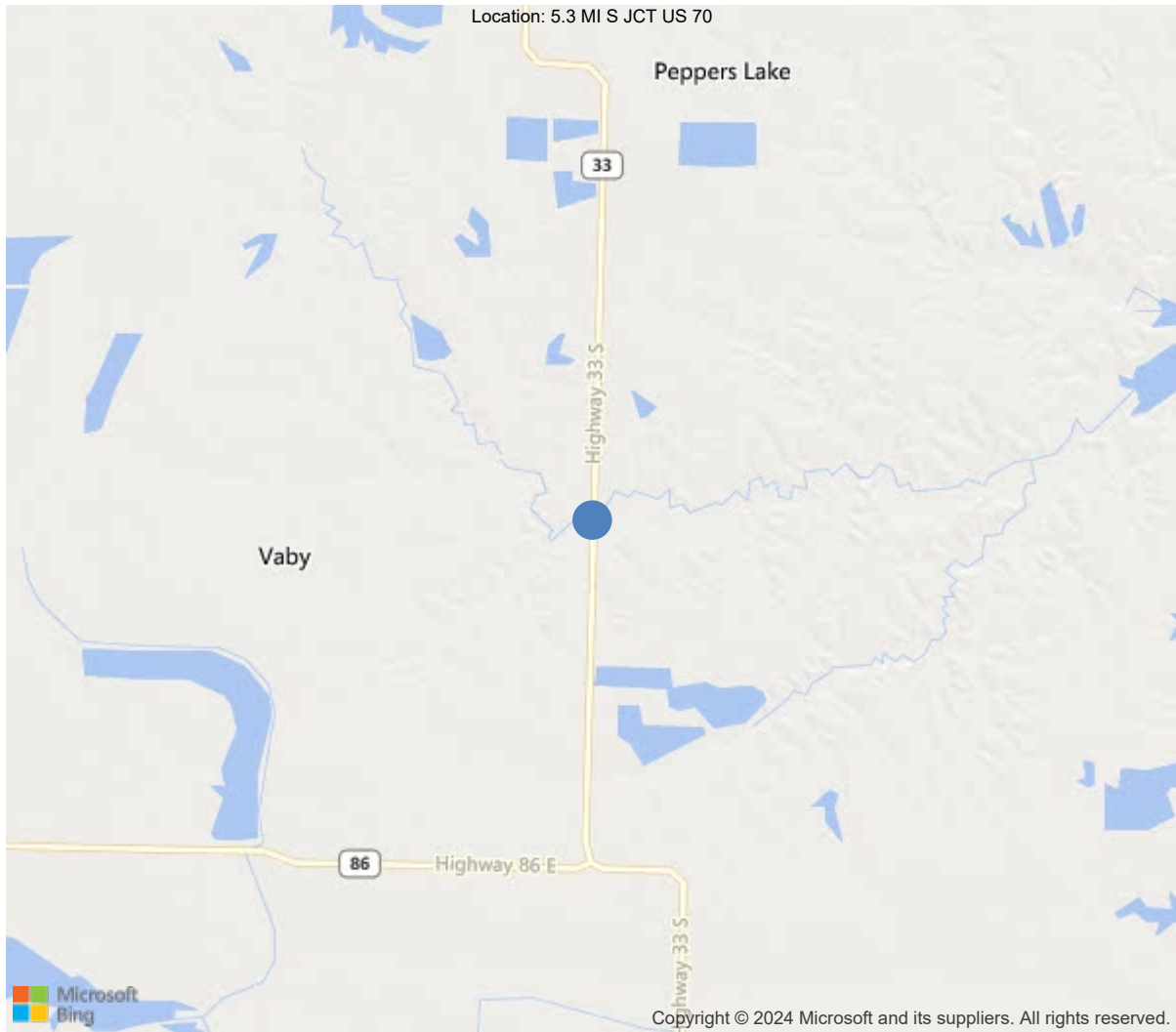
Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	17	17	17
Code 9 (31 Tons)	21	21	21
Code 5 (40 Tons)	31	31	31

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





34.70730, -91.45478



Asset #M0756(Routine, Underwater type 2)

SH 33 Log 3.15 over HONEY CREEK

Location: 5.3 MI S JCT US 70

Team Lead: Bryan Saunders, Inspection Date: 03/20/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	M0756
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	117 - Prairie County
(4) Place Code	0
(6) Features Intersected	HONEY CREEK
(7) Facility Carried	SH 33 Log 3.15
(9) Location	5.3 MI S JCT US 70
(11) Mile Point	3.149 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.707298
(17) Longitude	-91.454781
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	72
Material	7 - Wood or timber
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	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	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1957
(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	600
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	15 ft
(49) Structure Length	74.5 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	21.3 ft
(52) Deck Width Out to Out	22.2 ft
(32) Approach Roadway Width (W/Shoulders)	20 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	21.3 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 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	7 - Rural Major Collector
(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	6
(59) Superstructure	6
(60) Substructure	5
(61) Channel & Channel Protection	5
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	0 - Other or Unknown
(63) Operating Rating Method	2
(64) Operating Rating	
Type	2 - Allowable Stress(AS)
Rating	21
(65) Inventory Rating Method	2 - Allowable Stress(AS)
(66) Inventory Rating	
Type	
Rating	13
(70) Bridge Posting	1 - 30.0 - 39.9 % below
(41) Structure Open/Posted/Closed	P - Posted for load (may include
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	3
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(113) Scour Critical Bridges	5 - Bridge foundations determined to
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	100 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 109
(96) Total Project Cost	\$ 280
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	698
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	03/20/2023		
(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.			





Asset #M0756(Routine, Underwater type 2)

District: 06, County: 117 - Prairie County

Team Lead: Bryan Saunders, Inspection Date: 03/20/2023

#### General Observation

Revised sketch linked due to repairs and asphalt overlay. 03/21/17

Boat needed.

Logged North bound.

Sketch updated due to asphalt overlay thickness and channel profile added. 03/09/2021

---

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

channel waded with chest high waders and pile probed with range pole

bent 6 has scour hole at west end undermining timber cribbing

---

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

channel waded with chest high waders and pile probed with range pole

bent 6 has scour hole at west end undermining timber cribbing

---



Asset #M0756(Routine, Underwater type 2)

SH 33 Log 3.15 over HONEY CREEK

Location: 5.3 MI S JCT US 70

Team Lead: Bryan Saunders, Inspection Date: 03/20/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	1559	1409	75	75	0
1080	Delamination/Spall/Patched Area	SF	150	0	75	75	0
510	Wearing Surfaces	SF	1577	1277	300	0	0
3220	Crack (Wearing Surface)	SF	300	0	300	0	0
(12) Right & Left side of deck has concrete deterioration at gutter line. (510-12) longitudinal cracks							
111	Timber Open Girder/Beam	LF	969	837	105	27	0
1140	Decay/Section Loss	LF	27	0	0	27	0
1160	Crack (Timber)	LF	105	0	105	0	0
(111) Span 5 girders 2, is cracked. State forces have replaced girder 1, 12, and 13 at span 5. And have used plywood shim at girder to cap  Span 4 girders 1 is decayed Span 3 girders 7,8, 11 and 13 have cracks and are decayed. Span 2 girders 1,3 and 7, 11 have splits and decayed. Span 1 girders 13 and 11 are cracked entire length , girder 8 is cracked, state forces have replaced girder 13 at span 1. See photo							
216	Timber Abutment	LF	57	0	10	47	0
1140	Decay/Section Loss	LF	42	0	10	32	0
6000	Scour	LF	15	0	0	15	0
(216) The cribbing at both abutments have \ decayed sections on both ends.  Bent 6 timber cribbing is undermined from erosion							
228	Timber Pile	EA	30	8	14	8	0
1140	Decay/Section Loss	EA	5	0	0	5	0
1160	Crack (Timber)	EA	17	0	14	3	0
(228) Bent 6, all piles are cracked Bent 6 pile 3 has a decayed area 2' long 2" deep Bent 5, piles 1,4&5 have been replaced by state forces. Bent 4 piles 3 and 2 are decayed and split. Bent 3 all piles are cracked. Pile 3 has a crack with decay Bent 2 piles 1,2,3 and 4 are cracked pile 5 is hollow at the top. Bent 1 all pile have been replaced in the past.							
235	Timber Pier Cap	LF	97	73	0	24	0
1140	Decay/Section Loss	LF	24	0	0	24	0
(235) All of the caps are decayed on the ends.							
330	Metal Bridge Railing	LF	150	129	21	0	0
7000	Damage	LF	21	0	21	0	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
515	Steel Protective Coating	SF	420	400	20	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	20	0	20	0	0
(330) Tree fail on left bridge rail damaging 15' northwest guardrail post has had traffic impact and rail is not attached							



**Asset #M0756**(Routine, Underwater type 2)

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
111	Timber Open Girder/Beam	LF	969	837	105	27	0
1140	Decay/Section Loss	LF	27	0	0	27	0
1160	Crack (Timber)	LF	105	0	105	0	0
<p>(111) Span 5 girders 2, is cracked. State forces have replaced girder 1, 12, and 13 at span 5. And have used plywood shim at girder to cap</p> <p>Span 4 girders 1 is decayed</p> <p>Span 3 girders 7,8, 11 and 13 have cracks and are decayed.</p> <p>Span 2 girders 1,3 and 7, 11 have splits and decayed.</p> <p>Span 1 girders 13 and 11 are cracked entire length , girder 8 is cracked, state forces have replaced girder 13 at span 1. See photo</p>							



Asset #M0756(Routine, Underwater type 2)

SH 33 Log 3.15 over HONEY CREEK

Location: 5.3 MI S JCT US 70

Team Lead: Bryan Saunders, Inspection Date: 03/20/2023

## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
216	Timber Abutment	LF	57	0	10	47	0
1140	Decay/Section Loss	LF	42	0	10	32	0
6000	Scour	LF	15	0	0	15	0
(216) The cribbing at both abutments have \ decayed sections on both ends. Bent 6 timber cribbing is undermined from erosion							
228	Timber Pile	EA	30	8	14	8	0
1140	Decay/Section Loss	EA	5	0	0	5	0
1160	Crack (Timber)	EA	17	0	14	3	0
(228) Bent 6, all piles are cracked Bent 6 pile 3 has a decayed area 2' long 2" deep Bent 5, piles 1,4&5 have been replaced by state forces. Bent 4 piles 3 and 2 are decayed and split. Bent 3 all piles are cracked. Pile 3 has a crack with decay Bent 2 piles 1,2,3 and 4 are cracked pile 5 is hollow at the top. Bent 1 all pile have been replaced in the past.							
235	Timber Pier Cap	LF	97	73	0	24	0
1140	Decay/Section Loss	LF	24	0	0	24	0
(235) All of the caps are decayed on the ends.							

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

Comment: channel waded with chest high waders and pile probed with range pole  
bent 6 has scour hole at west end undermining timber cribbing





Elevation



Approach looking north



Load posting looking north



Load posting looking south





Upstream



Downstream



Deck view



Soffit view





Split at bent 4 pile 3



Bent 6 pile 3 has a decayed area 2' long 2" deep



Span 5 girder 12 and 13 replaced with sandwiched beams



Bent 3 pile 3 split with decay





Bent 1

**Maintenance Needs**

**Date Reported:** 03/28/2019

**Priority:** B - Pressing

**Type of Work:** (Inactive) (Inactive) 1 - Clean

**Status:** Forward State

**Component:**

**Deficiency Description**

Logs and debris build up on west side of bridge restricting water flow

**Remarks**

Assigned Prairie 06591 6/20/19



Debris at bent 2 and 3 upstream end



Logs and debris build up at west end of the bridge restricting water flow



Logs and debris build up at west end of the bridge



Logs and debris build up on west side of bridge restricting water flow





Logs and debris build up on west side of bridge restricting water flow



**Maintenance Needs**

Date Reported: 03/21/2018

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

**Deficiency Description**

Deck both sides at gutter line have spalls due to concrete deterioration.

**Remarks**



Span 1 left side spalling due to concrete deterioration.



Span 1, left side of concrete deck is spalled



Span 2 and 3 right side of deck has spalls



Span 1 left side spalling due to concrete deterioration.



### Maintenance Needs

Date Reported: 04/29/2020

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

### Deficiency Description

Bent 2 pile 5 is split and hollow at the top

Bent 3 pile 3 is split and decayed.

Bent 6 pile 3 is split and decayed at bottom near concrete collar

### Remarks



Bent 2 cap over pile 5 has a 2'x 6" x1" deep decay



Bent 6, pile 3: the pile is cracked and is decaying.



Bent 2 pile 5 is split and hollow at top. 2' of decay on cap.



Bent 6 pile 3 is split and decayed at bottom near concrete collar



Bent 3 pile 3 is split and decayed.



Bent 2 pile 5 is split and hollow at the top



**Maintenance Needs**

**Date Reported:** 03/29/2022

**Priority:** C - Important

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

**Status:** Forward State

**Component:**

---

**Deficiency Description**

Timber cribbing at bent 6 is being undermined due to channel being block by trees and debris

**Remarks**

---



Bent 6 scour hole



Timber cribbing at bent 6 is being undermined due to channel being block by trees and debris



**Maintenance Needs**

**Date Reported:** 03/28/2022

**Priority:** C - Important

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

**Status:** Forward State

**Component:**

**Deficiency Description**

southwest bridge rail and northwest rail post is damaged from traffic impact

**Remarks**



Approach guardrail post laid over due to traffic impact



Guardrail damage at southwest end



Left bridge rail is damaged



**Asset #M0756**(Routine, Underwater type 2)

**SH 33 Log 3.15 over HONEY CREEK**

**Location: 5.3 MI S JCT US 70**

**Team Lead:** Bryan Saunders, **Inspection Date:** 03/20/2023

## **Routine Maintenance**

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	No
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	No
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	

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

**A-55 - Deck Washing Needed (No)**

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



**Asset #M0756**(Routine, Underwater type 2)

**SH 33 Log 3.15 over HONEY CREEK**

**Location: 5.3 MI S JCT US 70**

**Team Lead:** Bryan Saunders, **Inspection Date:** 03/20/2023

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

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

**A-59 - Joint Repair Needed (No)**

**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**



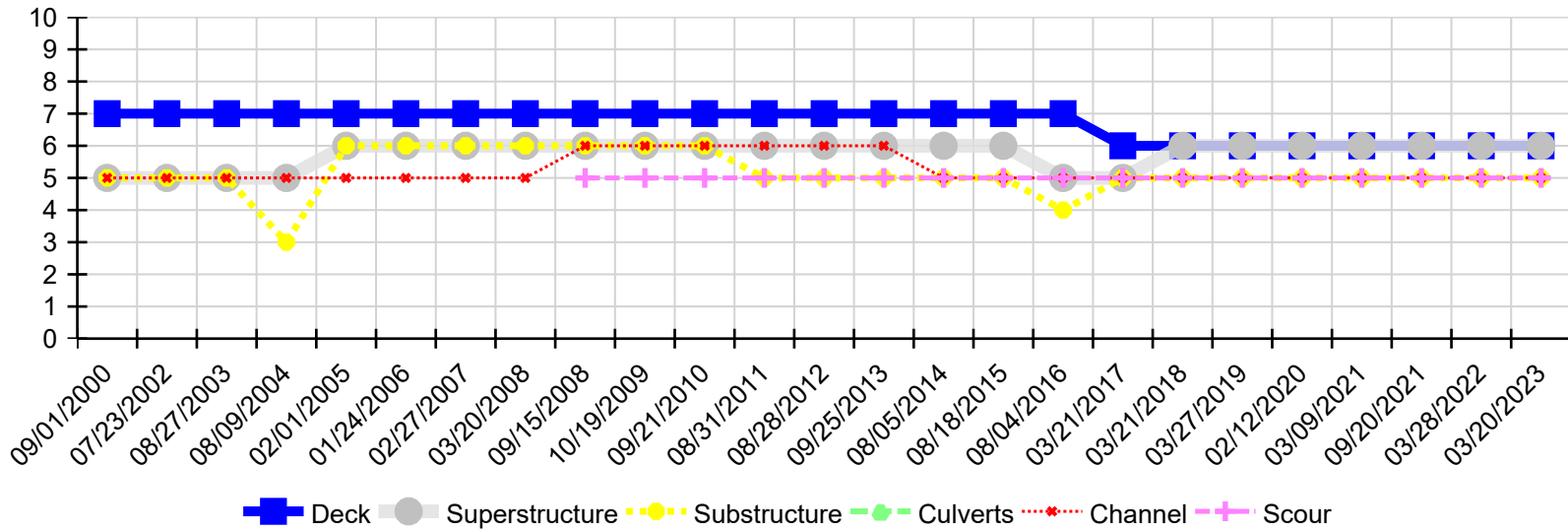
Asset #M0756(Routine, Underwater type 2)

SH 33 Log 3.15 over HONEY CREEK

Location: 5.3 MI S JCT US 70

Team Lead: Bryan Saunders, Inspection Date: 03/20/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
03/20/2023	6	6	5	N	5	5
03/28/2022	6	6	5	N	5	5
09/20/2021	6	6	5	N	5	5
03/09/2021	6	6	5	N	5	5
02/12/2020	6	6	5	N	5	5
03/27/2019	6	6	5	N	5	5
03/21/2018	6	6	5	N	5	5
03/21/2017	6	5	5	N	5	5
08/04/2016	7	5	4	N	5	5
08/18/2015	7	6	5	N	5	5
08/05/2014	7	6	5	N	5	5
09/25/2013	7	6	5	N	6	5
08/28/2012	7	6	5	N	6	5
08/31/2011	7	6	5	N	6	5
09/21/2010	7	6	6	N	6	5
10/19/2009	7	6	6	N	6	5
09/15/2008	7	6	6	N	6	5
03/20/2008	7	6	6	N	5	N
02/27/2007	7	6	6	N	5	N
01/24/2006	7	6	6	N	5	N
02/01/2005	7	6	6	N	5	N
08/09/2004	7	5	3	N	5	N
08/27/2003	7	5	5	N	5	N
07/23/2002	7	5	5	N	5	N
09/01/2000	7	5	5	N	5	N