

## Bridge 06346 Inspection Report



Latitude:33.93523, Longitude:-93.44416

Route:19 Section:05 Log:10.09

Arnold Road ID:50x19x5xA, Arnold Log mile:10.09

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

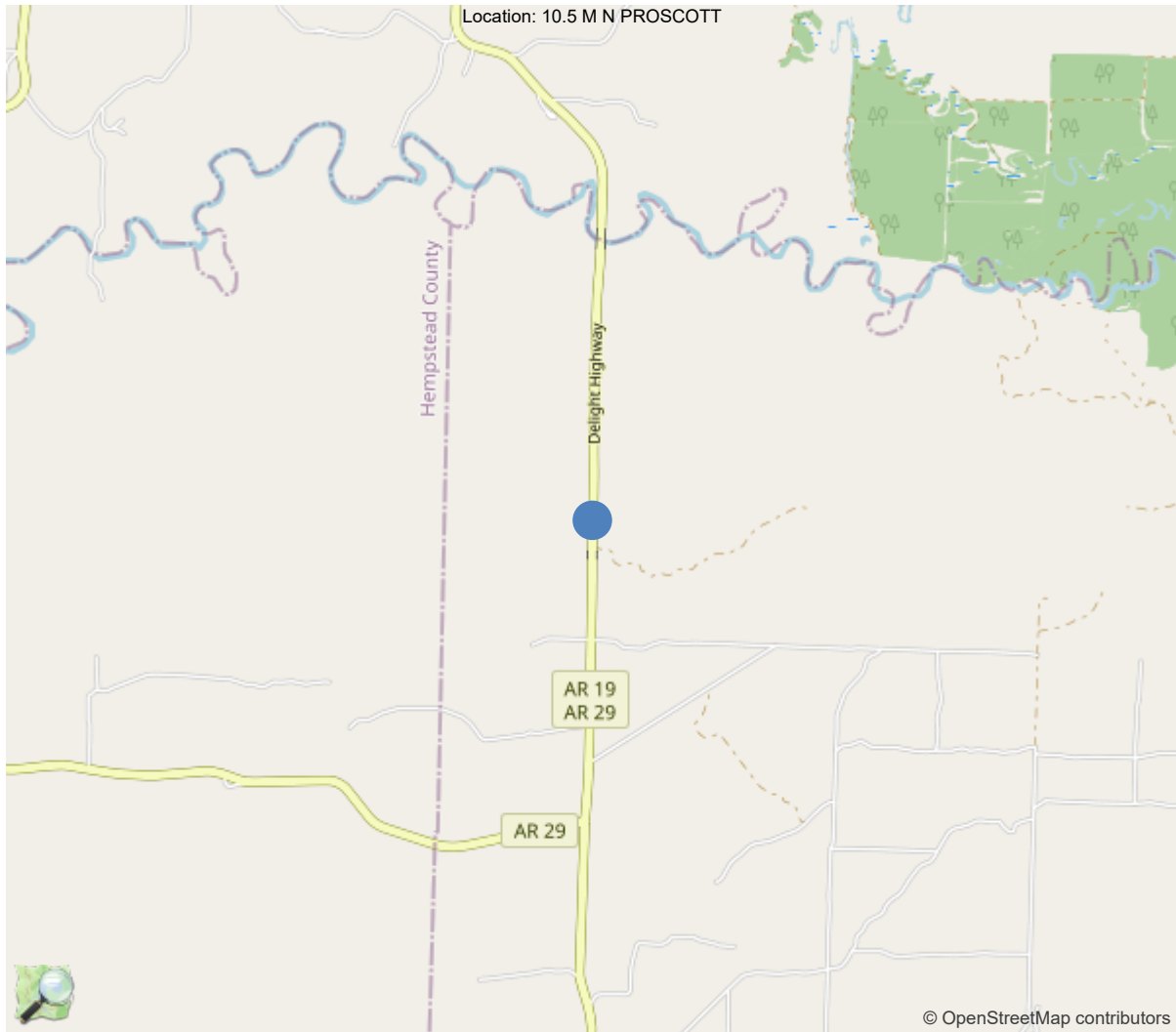
70 - Bridge Posting: 5 - Equal to or above legal loads

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



33.93523, -93.44416



## National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06346
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	99 - Nevada County
(4) Place Code	0
(6) Features Intersected	MIDDLE CREEK
(7) Facility Carried	S.H. 19 -05 -10.09
(9) Location	10.5 M N PROSCOTT
(11) Mile Point	10.09 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000
(16) Latitude	33.93523
(17) Longitude	-93.44416
(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	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	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	75 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)	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	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	8
(61) Channel & Channel Protection	8
(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			10/12/2023
(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:** 10/12/2023

## Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	06346
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	33.93523
B.L.06 Longitude	-93.44416
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	25
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	N - Not curved
B.G.13 Max Bridge Height	13
B.G.14 Sidehill Bridge	N - Not a 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	7 - GOOD - Some minor defects.
B.C.06 Bridge Railing Transitions Condition	8 - VERY GOOD - Some inherent
B.C.07 Bridge Bearings Cond.	
B.C.08 Bridge Joints Condition	6 - SATISFACTORY - Widespread
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: 10/12/2023

SPAN SETS			
<b>M1</b>			
B.SP.02 # of Spans	3	B.SP.08 Deck Interaction	IM - Integral or monolithic
B.SP.03 # of Beam Lines	5	B.SP.09 Deck Material and Type	C01 - Reinforced concrete - ca
B.SP.04 Span Material	C01 - Reinforced concrete - ca	B.SP.10 Wearing Surface	0 - None
B.SP.05 Span Continuity	1 - Simple or single span	B.SP.11 Deck Protective System	0 - None
B.SP.06 Span Type	G02 - Girder/beam - I-shaped s	B.SP.12 Deck Reinforcing Protective System	0 - None
B.SP.07 Span Protective System	0 - None	B.SP.13 Deck Stay-In-Place Forms	0 - None

SUBSTRUCTURE SETS			
<b>A1</b>			
B.SB.02 No. of Substructure Units	2	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	P02 - Pile - steel pipe
B.SB.04 Substructure Type	A02 - Abutment - stub	B.SB.07 Foundation Protective System	0 - None
<b>P1</b>			
B.SB.02 No. of Substructure Units	2	B.SB.05 Substructure Protective System	E01 - Encasement - concrete
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	P01 - Pile - steel H-shape
B.SB.04 Substructure Type	B01 - Bent - column or open	B.SB.07 Foundation Protective System	0 - None

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

WATERWAY FEATURES			
<b>W1</b>			
B.F.02 Feature Location	B - Below bridge	B.N.03 Movable Bridge Max Navigation Vertical Clearance	
B.F.03 Feature Name	Middle Creek	B.N.04 Navigation Channel Width	
B.N.01 Navigable Waterway	N - Not navigable waters	B.N.05 Navigation Channel Min Horizontal Clearance	
B.N.02 Navigation Min Vertical Clearance		B.N.06 Substructure Navigation Protection	

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



### Inspection Notes

**27 - Year Built (1991)**

-

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

Bridge deck is in good condition with minor cracking.

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

Superstructure is 7 good due to minor cracking and concrete T beam

**60 - Substructure (8 - VERY GOOD CONDITION - no problems noted.)**

Substructure is rated a 8 due to having no note worthy defects.

**61 - Channel/Channel Protection (8 - Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition.)**

Channel is rated a 8 due to being well vegetated and no damage.

**72 - Approach Roadway Alignment (8 - Equal to present desirable criteria)**

-

**A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS) (8 - Insignificant scour.)**

Rated a 8 due to insignificant scour.





ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	3225	2985	200	40	0
1120	Efflorescence/Rust Staining	SF	40	0	0	40	0
1130	Cracking (RC and Other)	SF	200	0	200	0	0
(12) Cracks in the deck. Efflorescence on bottom of deck Span 1 bay 1,2,3,4 Efflorescence with rusting. Span 3 bay 2 efflorescence with minor rusting. Span 3 at bay 4 efflorescence on bottom of deck.							
110	Reinforced Concrete Open Girder/Beam	LF	375	375	0	0	0
(110) Span 1 beam 4 minor cracking in concrete. Spans 2 & 3 also have minor cracking.							
215	Reinforced Concrete Abutment	LF	87	87	0	0	0
(215) Abutment 1 in very good condition. Abutment 2 in very good condition.							
225	Steel Pile	EA	10	10	0	0	0
(225) Steel piles concrete encased drawing #14995A Bent 2 pile 4 concrete encasement in good condition. Bent 3 pile 2 minor spalling on concrete encasement.							
234	Reinforced Concrete Pier Cap	LF	143	143	0	0	0
(234) Caps are in very good condition no problems.							
301	Pourable Joint Seal	LF	160	0	160	0	0
2310	Leakage	LF	160	0	160	0	0
(301) Joint seals at bent 2 & 3 are in satisfactory condition.							
331	Reinforced Concrete Bridge Railing	LF	150	142	8	0	0
1130	Cracking (RC and Other)	LF	8	0	8	0	0
(331) Bridge railing is in good condition. Minor cracking in concrete railing.							

## Inspection Photos and Notes



10/24/2023

Cracking in concrete railing



10/24/2023

Span 3 at bay 4 efflorescence on bottom of deck.



10/24/2023

Span 3 bay 2 efflorescence with minor rusting.



10/24/2023

Bent 3 pile 2 minor spalling on concrete encasement.





10/24/2023

Beam 1 span 3. Minor cracking.



10/24/2023

Downstream in very good condition. Very well vegetated.



10/24/2023

Upstream in very good condition. Very well vegetated.



10/24/2023

Abutment 1 in very good condition.





Bent 3 in very good conditions.



Abutment 1 in very good condition.



Photo taking in span 2 Superstructure in good condition.  
Minor cracking in concrete T Beam.



Bent 2 pile 4 concrete encasement in good condition.





Bent 2 cap span 1 side typical photo of cap.



Span 1 beam 4 minor cracking in concrete.



Span 1 bay 1,2,3,4 Efflorescence with rusting.



Efflorescence on bottom of deck.





Elevation.



Joint condition in satisfactory condition at bent 2 and 3.



Bridge railing transition in good condition.



Bridge railing in good condition.





Joint seal in satisfactory condition.



Joint seal at bent 2 & 3 are in satisfactory condition.



Bridge railing is in good condition. Photo on the left side.



Cracks in the deck.





Photo of deck.



Alignment



Deck photo



## Routine Maintenance

### Check Box Maintenance Items

Type of Maintenance	Is Recommended?
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	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**

**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)**



Joint seal in satisfactory condition.

**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 #06346**(Routine)

**S.H. 19 -05 -10.09 over MIDDLE CREEK**

**Location: 10.5 M N PROSCOTT**

**Team Lead: John King Inspection Date: 10/12/2023**

**A-64 - Vegetation Removal Requested**

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

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



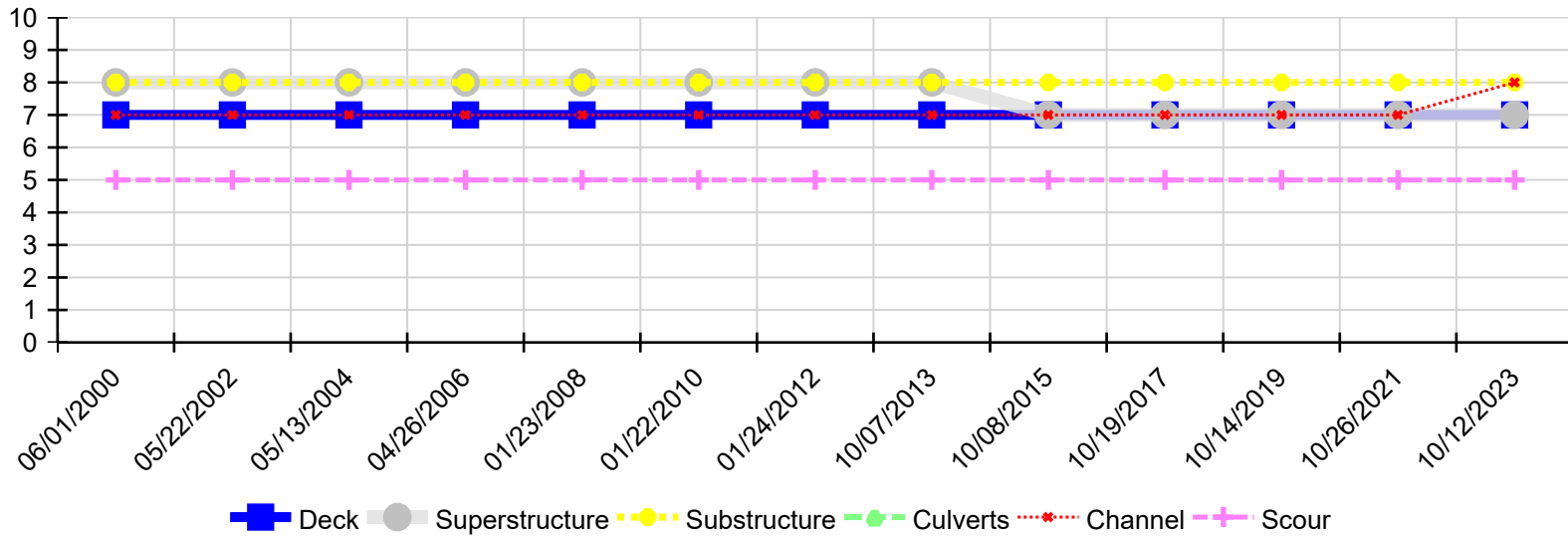


Asset #06346(Routine)  
S.H. 19 -05 -10.09 over MIDDLE CREEK

Location: 10.5 M N PROSCOTT

Team Lead: John King Inspection Date: 10/12/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/12/2023	7	7	8	N	8	5
10/26/2021	7	7	8	N	7	5
10/14/2019	7	7	8	N	7	5
10/19/2017	7	7	8	N	7	5
10/08/2015	7	7	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
01/23/2008	7	8	8	N	7	5
04/26/2006	7	8	8	N	7	5
05/13/2004	7	8	8	N	7	5
05/22/2002	7	8	8	N	7	5
06/01/2000	7	8	8	N	7	5