

# MISSOURI SCOUR ASSESSMENT FIELD FORM

Date: 2/14/94  
 Inspector: JAY BESTGEN, GARY BAKKE

District # 5  
 Bridge # W-559 BOONE

Problem: \_\_\_\_\_  
 Followup: \_\_\_\_\_ Date: \_\_\_\_\_  
 Action Taken: \_\_\_\_\_ Date: \_\_\_\_\_  
 QA: \_\_\_\_\_ Date: \_\_\_\_\_  
 Data Input: \_\_\_\_\_ Date: \_\_\_\_\_  
 Report QA: \_\_\_\_\_ Date: \_\_\_\_\_

## From the Roadway

# of Bridges: L: 0 R: 0 Base Flow: 1 0=No 1=Yes  
 Landuse USLB: 7 USRB: 7 DSLB: 3 DSRB: 3 Overall: 7  
 1=Urban 2=Row Crop 3=Pasture 4=Forest 5=Swamp/Wetland 6=Suburban 7=Brush  
 High Flow Angle of Approach: 0 += RB Pushed -= LB Pushed  
 Upstream Channel Profile: 2 1=Pool 2=Riffle

## Picture from Bridge Looking US

Roll #: 16 Frame #: 1 Standing: BRIDGE DECK  
 Looking At: UPSTREAM

## Picture from Bridge Looking DS

Roll #: 16 Frame #: 2 Standing: BRIDGE DECK  
 Looking At: DOWNSTREAM

Downstream Channel Profile: 2 1=Pool 2=Riffle

## In the Upstream Channel

Meander Impacts: (1) 0 Bank: - Distance: -  
 (2) - Bank: - Distance: -  
 0=No 1=Yes 1=LB 2=RB 0=At Bridge += Upstream (ft)

(Beyond Bridge Right-of-Way for Bank and Channel Observations Only)

Bank Height (ft)		Bank Angle		% Veg Cover		Bank Material		Bank Erosion	
LB	RB	LB	RB	LB	RB	LB	RB	LB	RB
<u>9</u>	<u>14</u>	<u>60</u>	<u>70</u>	<u>5</u>	<u>0</u>	<u>2</u>	<u>5</u>	<u>2</u>	<u>0</u>

US Channel Width (ft): 45'  
 (At Bankfull Flow)

1 = Sand 0 = None  
 2 = Silt/Cl 1 = Mass Wasting  
 3 = Gravel 2 = Fluvial  
 4 = Cbl/Boldr  
 5 = Bedrock  
 6 = Con/Steel

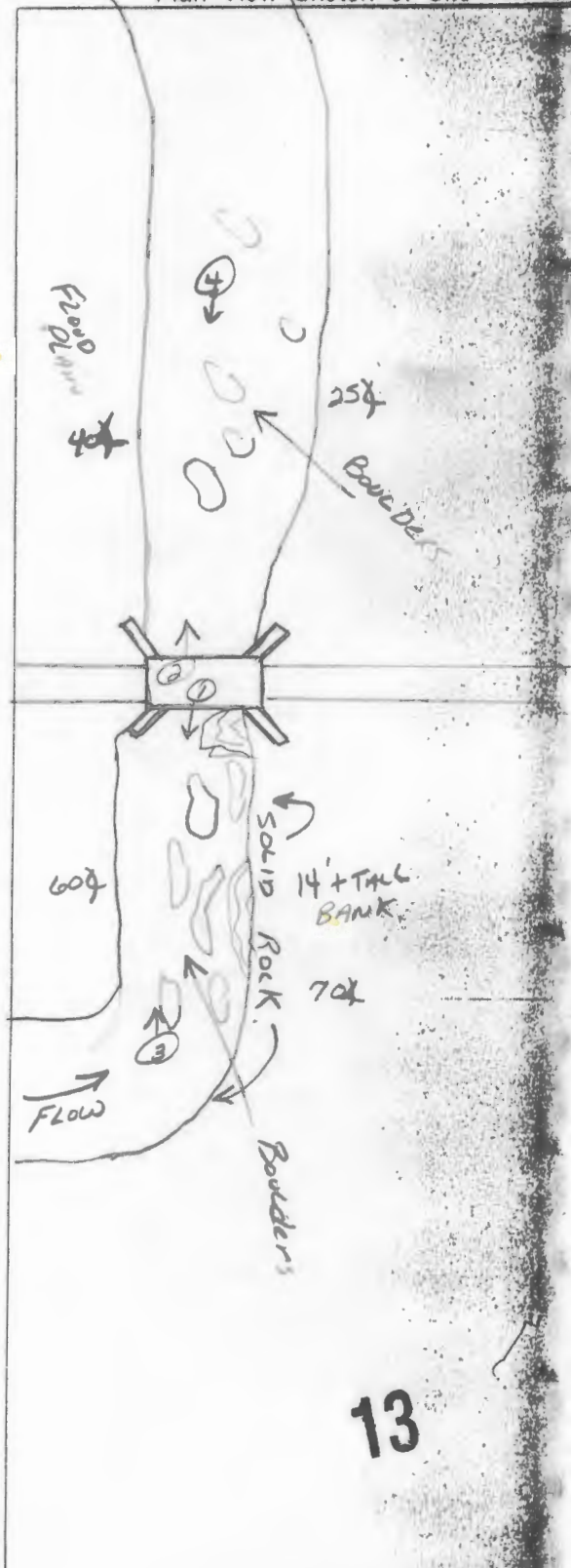
## Picture from US Looking DS

Roll #: 16 Frame #: 3 Standing: Middle Upstream  
 Looking At: BRIDGE

## Comments

Confluence #1: 0 (ft) Entry: -  
 Confluence #2: - (ft) Entry: -  
 Confluence #3: - (ft) Entry: -  
 0=No 1=Yes += US -= DS 1=LB 2=RB

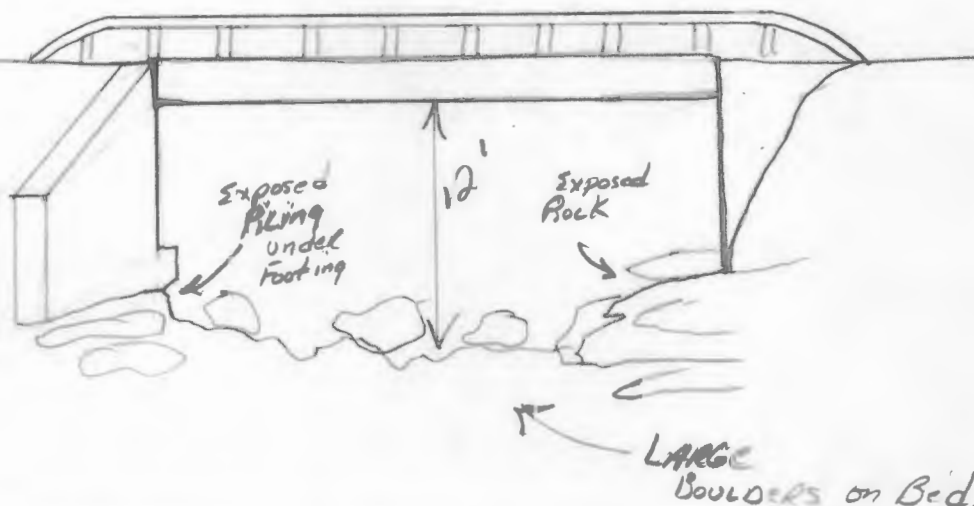
## Plan View Sketch of Site



# In the Upstream Channel (cont)

Point Bar: 0 Point Bar Location: — % to — % Distance to Mid Bar: — (ft) Mid Bar Width: — (ft)  
 0 = No 1 = Yes (At Bankfull Discharge) 0% = LB 100% = RB += US -= DS  
 Cut Bank: 0 Cut Bank Location: — Distance to Mid Cut Bank: —  
 0 = No 1 = Yes 1 = LB 2 = RB += US -= DS

## Sketch of Bridge Opening/Channel Cross Section at Upstream Side of Bridge



## Under the Bridge

Underclearance from channel Bed to Low Steel: 12 (ft) (999 if > 35) Water Depth in channel: 0 (ft)  
 Flow Deflected by Debris: 0 Impact Point: — Distance to Impact Point: — (ft)  
 0 = No 1 = Yes 1 = LB 2 = RB += US 0 = At Bridge -= DS

## Piers and Columns

Shape	# of Columns (If Shape =) (4, 5, or 6)	Diagonal (If Shape =) (4, 5, or 6)	Attack Angle	Pier Location	Pier Width (feet)	Pier Length (feet)	Local Scour	Footing Exposure
1- <u>ABUTMENT</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>0 1 2</u>	<u>0 1 2</u>
2- <u>ABUTMENT</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>0 1 2</u>	<u>0 1 2</u>
3- <u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>0 1 2</u>	<u>0 1 2</u>
4- <u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>0 1 2</u>	<u>0 1 2</u>
5- <u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>0 1 2</u>	<u>0 1 2</u>
6- <u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>0 1 2</u>	<u>0 1 2</u>
7- <u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>0 1 2</u>	<u>0 1 2</u>
8- <u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>0 1 2</u>	<u>0 1 2</u>
9- <u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>0 1 2</u>	<u>0 1 2</u>
Shape		Diagonal	Angle	Pier Location			Scour	Exposure
1 = Squared		0 = No	+= RB Pushed	LFP or RFP = Left (or R) Flood Plain			0 = None	0 = None
2 = Rounded		1 = Yes	-= LB Pushed	LTB or RTB = Left (or R) Top Bank			1 = Observed	1 = Footing
3 = Pointed				LB or RB = Left (or R) Bank			2 = Unknown	2 = Piles
4 = Square Columns				MCL or MCR = Middle Channel Left (or R)				
5 = Round Column				MCM = Middle Channel Middle				
6 = Pointed Columns								

# Under the Bridge (cont)

## Abutments

	Attack Angle	Toe Location	Face Slope	Footing Exposed	Piles Exposed	Guide Banks
Left Abut:	<u>0</u>	<u>-5</u> (ft)	<u>2</u>	<u>1</u>	<u>1</u>	<u>0</u>
Right Abut:	<u>0</u>	<u>0</u> (ft)	<u>2</u>	<u>1</u>	<u>0</u>	<u>0</u>

+ = RB Pushed  
 - = LB Pushed  
 - = Past Bank into Stream  
 0 = Even w/ Bank  
 + = Set Back from Bank  
 1 = Sloping  
 2 = Vertical  
 0 = No  
 1 = Yes

## Rip Rap

Present Condition  
(If Pres = 1)

US LB:	<u>0</u>
US L WW:	<u>0</u>
L-Abut:	<u>0</u>
LB:	<u>0</u>
DS L WW:	<u>0</u>
DS LB:	<u>0</u>
US RB:	<u>0</u>
US R WW:	<u>0</u>
R Abut:	<u>0</u>
RB:	<u>0</u>
DS R WW:	<u>0</u>
DS RB:	<u>0</u>
Bed:	<u>0</u>

0 = Absent  
 1 = Present  
 2 = Good Cond  
 3 = Partial  
 4 = Slumped

## Bed Material

US: 4 Under Bridge: 4 DS: 4  
 1 = Sand 3 = Gravel 5 = Bedrock 7 = Con/Steel  
 2 = Silt/Cl 4 = Cbl/Boldr 6 = Under

## Channel

Width Under Bridge: 33 (ft)  
 (At Bankfull Flow)

## Debris Potential

Debris Potential: 0  
 0 = Low 1 = Medium 2 = High

## Debris

Accumulation: 0 0 = No 1 = Yes  
 Horizontal: 0% to 0%  
 0% = LB 100% = RB  
 Vertical: 0% to 0%  
 0% = Bed 100% = Low Steel  
 Type of Material:  
 1 = Brush 3 = Trash  
 2 = Whole Trees 4 = All Others

## Scour Holes

Present	Stream Pos.	Channel Pos.	Width	Length	Depth
1- <u>0</u>	<u>0</u> (ft)	<u>0</u> %	<u>0</u> (ft)	<u>0</u> (ft)	<u>0</u> (ft)
2- <u>0</u>	<u>0</u> (ft)	<u>0</u> %	<u>0</u> (ft)	<u>0</u> (ft)	<u>0</u> (ft)

0 = Absent  
 + = US  
 0 = Under Bridge  
 - = DS  
 LB = 0%  
 RB = 100%

## In the Downstream Channel

(Beyond Bridge Right-of-Way for Bank and Channel Observations Only)

Bank Height (ft)	Bank Angle	% Veg Cover	Bank Material	Bank Erosion
LB <u>5</u> RB <u>8</u>	LB <u>40</u> RB <u>25</u>	LB <u>0</u> RB <u>0</u>	LB <u>2</u> RB <u>2</u>	LB <u>2</u> RB <u>2</u>

Stage of Reach Evolution: 5

1 = Undisturbed  
 2 = Constructed  
 3 = Degradation w/ Bank Failure  
 4 = Aggradation  
 5 = Vertically Stable  
 6 = Lateral Migration

1 = Sand  
 2 = Silt/Cl  
 3 = Gravel  
 4 = Cbl/Bold  
 5 = Bedrock  
 6 = Con/Steel  
 0 = None  
 1 = Mass Wasting  
 2 = Fluvial

DS Channel Width (ft): 60

Picture from DS Looking US

Roll #: 16 Frame #: 4 Standing: Middle downstream

Looking At: BRIDGE

## Additional Photographs

Roll #	Frame #	Standing	Looking At	Comments
<u>  </u>	<u>  </u>	<u>  </u>	<u>  </u>	<u>  </u>
<u>  </u>	<u>  </u>	<u>  </u>	<u>  </u>	<u>  </u>





1



2



3



4



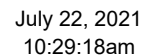
Missouri Department of Transportation  
Bridge Inventory and Inspection System  
Structural Inventory & Appraisal Sheet

July 22, 2021  
10:29:18am

COUNTY : BOONE BRIDGE : W0559 REVIEW STATUS : APPROVED NBI STATUS : P  
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 1/14/2021 SUBMITTAL YEAR : 2020

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	CD	5B	Route Signing Prefix	MO
3	County	BOONE	5C	Designated Level of Service	MAINLINE
8	Federal ID No.	9482	5D	Route Number	00163
27	Year Built	1958	5E	Directional Suffix	NOT APPLICABLE
106	Year Reconstructed	0	7	Facility Carried	MO 163 S
42A	Type of Service On	HIGHWAY	12	Base Hwy. Network	NO
21	Structure Maintenance	STATE HIGHWAY AGENCY	13A	LRS Inventory Route No.	
22	Structure Owner	STATE HIGHWAY AGENCY	13B	Subroute No.	
33	Br. Median Code	NO MEDIAN	20	Toll Status	ON FREE ROAD
37	Historical Significance	NOT ELIGIBLE FOR NR OF HP	26	Functional Classification	07-RURAL MAJOR COLLECTOR
101	Parallel Struc Desg	NONE EXISTS	28A	Lanes on Structure	02
103	Temporary Structure	NOT TEMPORARY	100	STRAHNET Designation	RTE NOT A DEFENSE HWY
112	NBIS Bridge Length	YES	104	National Highway System	NOT ON NHS
			105	Federal Lands Highway	NOT APPLICABLE
			110	Designated Nat. Network	NO
STRUCTURE LOCATION INFORMATION			STRUCTURE TRAFFIC INFORMATION		
4	Place	CEDAR	29	AADT	967
	Code	12142	30	AADT Year	2019
9	Location	S 9 T 47 N R 12 W	102	Direction of Traffic	2-WAY TRAFFIC
11	Milepoint	10.65 miles	109	AADT Truck Percent	21%
16	Latitude	38 D 52 M 7 S	114	Future AADT	1692
17	Longitude	92 D 16 M 13 S	115	Future AADT Year	2039
UNDERRECORD INFORMATION			STRUCTURE GEOMETRIC INFORMATION		
6	Features Intersected	BONNE FEMME CREEK	10	Inventory Rte. Vert. Clear	99 Ft. 99 In.
42B	Type of Service Under	WATERWAY	19	By pass Detour Length	13.02 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	20 Ft. 0 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	0.00 Degrees
54B	Vert. Clearance	0 Ft. 0 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	N/A	47	Total Horiz. Clear	21 Ft. 12 In.
55B	Rt. Lat Clearance	0 Ft. 0 In.	48	Maximum Span Length	34 Ft. 1 In.
56	Left Lat Clearance	0 Ft. 0 In.	49	Structure Length	34 Ft. 1 In.
38	Navigation Control	PERMIT NOT REQ	50A	Left Curb/Sidewalk Width	0 Ft. 0 In.
39	Nav Vertical Clear	0 Ft. 0 In.	50B	Right Curb/Sidewalk Width	0 Ft. 0 In.
40	Nav Horizontal Clear	0 Ft. 0 In.	51	Curb to Curb Br. Width	21 Ft. 12 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	23 Ft. 11 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design\_No = W0559







Missouri Department of Transportation  
Bridge Inventory and Inspection System  
Structural Inventory & Appraisal Sheet

July 22, 2021  
10:29:18am

COUNTY : BOONE BRIDGE : W0559 REVIEW STATUS : CONVERTED NBI STATUS : T  
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 3/9/2021 SUBMITTAL YEAR : 2021

GENERAL STRUCTURE INFORMATION			ROUTE DESIGNATION INFORMATION		
1	State	MISSOURI	5A	Record Type	ROUTE CARRIED 'ON' STRUCT
2	District	CD	5B	Route Signing Prefix	MO
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22	Structure Owner	STATE HIGHWAY AGENCY	13B	Subroute No.	
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112	NBIS Bridge Length	YES	104	National Highway System	NOT ON NHS
			105	Federal Lands Highway	NOT APPLICABLE
			110	Designated Nat. Network	NO
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	Code	12142	30	AADT Year	2019
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42B	Type of Service Under	WATERWAY	19	By pass Detour Length	13.13 miles
28B	Lanes Under Structure	00	32	Approach Roadway Width	20 Ft. 0 In.
54A	Vert. Clearance Ref.	N/A	34	Skew	0.00 Degrees
54B	Vert. Clearance	0 Ft. 0 In.	35	Struct. Flared	NO
55A	Rt. Lat Clear Ref.	N/A	47	Total Horiz. Clear	21 Ft. 12 In.
55B	Rt. Lat Clearance	0 Ft. 0 In.	48	Maximum Span Length	34 Ft. 1 In.
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40	Nav Horizontal Clear	0 Ft. 0 In.	51	Curb to Curb Br. Width	21 Ft. 12 In.
111	Nav. Pier Protection		52	Deck Width (Out-Out)	23 Ft. 11 In.
116	Nav. Cl. Vert. Clear		53	Vert. Clearance Over Deck	99 Ft. 99 In.

Design\_No = W0559



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Bridge Inventory and Inspection System  
Structural Inventory & Appraisal Sheet

July 22, 2021  
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COUNTY : BOONE BRIDGE : W0559 REVIEW STATUS : CONVERTED NBI STATUS : T  
RECORD TYPE : ROUTE CARRIED 'ON' STRUCT RUN DATE : 3/9/2021 SUBMITTAL YEAR : 2021

LOAD RATING AND POSTING INFORMATION			MATERIAL/CONSTRUCTION INFORMATION		
31	Design Load	OTHER OR UNKNOWN	43A	Main Struc. Mat type	CONCRETE
41	Structure Status	POSTED FOR LOAD	43B	Main struc Constr. Type	CHANNEL BEAM
63	Oper. Rating Meth.	LOAD FACTOR	45	# of Main Spans	1
64	Operating Rating	28 Tons.	44A	Appr Struc. Mat type	000
65	Inventory Rating Meth	LOAD FACTOR	44B	Appr Struc. Cnstr. type	000
66	Inventory Rating	17 Tons.	46	# of Approach Span	0
70	Bridge Posting Code	10.0-19.9% BELOW	107	Deck Mat/Constr.	1 CONCRETE CIP
PROPOSED IMPROVEMENT INFORMATION			108A	Wear Surf Mat/Constr.	6 BITUMINOUS
Sufficiency Rating 24.6 Percent			108B	Membrane Mat/Constr.	1 BUILT UP
Deficiency Rating STRUCTURAL			108C	Deck Protect Mat/Constr.	0 NONE
Funding Eligibility FULL			CONDITION RATING INFORMATION		
75A	Proposed Work	REPLACEMENT SUBSTND LOAD	58	Deck Cond. Rating	4
75B	Work Done By	Contract	59	Superstructure Cond. Rating	4
76	New Struc Length	55 Ft. 9 In.	60	Substructure Cond. Rating	6
94	Struc Improve Cost	\$ 194,000	61	Channel /Channel Protection Cond. Rating	5
95	Roadway Improve Cost	\$ 19,000	62	Culvert Cond. Rating	N
96	Total Project Cost	\$ 292,000	INSPECTION INFORMATION		
97	Year of Cost Estimates	2021	90	Gen. Insp Date	11 / 19
APPRAISAL RATING INFORMATION			91	Gen. Insp. Frequency	24 Months
36A	Br. Rail App. Rating	DOES NOT MEET ACCEPT STND	92A	Frac. Critical Inspection	N Months
36B	Transition Rail App. Rating	DOES NOT MEET ACCEPT STND	93A	Frac. Critical Insp. Date	
36C	Approach Rail App. Rating	MEETS ACCEPTBLE STND	92B	Underwater Inspection	N Months
36D	Rail End Treat. App. Rating	DOES NOT MEET ACCEPT STND	93B	Underwater Insp. Date	
67	Struc Eval App. Rating	4	92C	Special Inspection	N Months
68	Deck Geometry App. Rating	4	93C	Special Inspection Date	
69	Underclearance App. Rating	N	BORDER BRIDGE INFORMATION		
71	Waterway Adeq. App. Rating	8	98	Neighboring State Code	
72	Approach Road App. Rating	8	98B	Neighboring State % Respon	
113	Scour Assess App. Rating	8	99	Neighboring State Struc. No.	
APPROVED POSTING INFORMATION			FIELD POSTING INFORMATION		
Approved Posting Category S-11			Field Posting Category S-11		
Ton1 Ton2 Ton3			Ton1 Ton2 Ton3		
Tonnage Values for Posting Sign 19 30			Tonnage Values for Posting Sign 19 30		
General Text for Posting Sign			General Text for Posting Sign		
TRUCKS OVER 19 TONS 15 MPH ON BRIDGE EXCEPT TRUCKS WEIGHT LIMIT 30 TONS.			TRUCKS OVER 19 TONS 15 MPH ON BRIDGE EXCEPT TRUCKS WEIGHT LIMIT 30 TONS.		

Design\_No = W0559



Bridge Number:

W0559

Route/County:

163/Boone

Asbestos-Containing Material Present?

Yes: ☐

No: ☒

If yes, see report for location(s).

Structural Steel Present?

Yes: ☒

No: ☐

If No, then skip the following.

Lead-Based Paint (LBP) Present?

Yes: ☐

No: ☒

Trusses LBP?

Yes: ☐ No: ☐

Girder LBP?

Yes: ☐ No: ☐

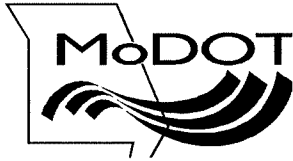
Railing LBP?

Yes: ☐ No: ☒

Pile LBP?

Yes: ☐ No: ☐


No Paint



## MEMORANDUM

### Missouri Department of Transportation Construction and Materials Central Laboratory

**TO:** TMS

**FROM:** Frank Reichart   
Environmental Chemist

**DATE:** June 25, 2018

**SUBJECT:** Materials  
Asbestos Inspection & Heavy Metal Paint Survey  
Route 163  
Bridge W-0559  
Boone County

We are providing you with the results of the inspection on the above referenced bridge. The inspection report contains an asbestos and a heavy metals survey. The asbestos inspection included identifying suspect asbestos-containing material and NVLAP accredited testing to confirm the presence of asbestos.

Form T746 – This will show if samples were taken, where from, and, if the sample was found to contain asbestos, our estimated quantity of material present. Under the column “Friability Category”, this is the meaning for the following:

N-ACM – No asbestos detected.

I NF – Asbestos is present. Material shall be handled carefully by a licensed abatement worker and kept wet if removing as part of a maintenance activity.

II NF – Asbestos is present. If removal is required for the maintenance activity, use an abatement contractor.

In accordance with Missouri Department of Natural Resources’ Technical Bulletin “Managing Construction and Demolition Waste” dated January 31, 2003, a heavy metal paint survey has been performed on the above referenced bridge. This survey includes locating concrete which has been painted with something other than traffic paint or graffiti, and testing the painted surface(s) to determine if hazardous heavy metals are present. If the bridge is being removed completely, or the maintenance repairs include removing the painted concrete, then, non-hazardous painted concrete may be used as clean fill materials, if properly handled. You must contact the Central Office Design Division for proper handling of the reported painted surfaces.

Although our survey included observing and sampling all accessible areas, it is possible that potentially hidden asbestos-containing materials may exist within the structure. Should you have any questions regarding these reports, please contact me at (573) 526-4359.

db/fr/dr

[http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared  
documents/asbestos/districts/central \(cd\)/mt/w0559/fr18062509.docx](http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared/documents/asbestos/districts/central(cd)/mt/w0559/fr18062509.docx)  
Attachments

**MISSOURI DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION AND MATERIALS  
Asbestos Survey Report  
All Suspect ACM**

ROUTE:	163
MODOT JOB NO.:	N/A
DISTRICT:	CD
COUNTY:	Boone
DATE OF SURVEY:	June 25, 2018
PARCEL NO.:	Bridge W-0559

**SURVEYED BY:** Frank Reichart<sup>1</sup> and Diane Roegge **M**  
**CERTIFICATION #:** 7119101817MOIR11239, F.R.  
**CERTIFICATION #:** 7119101817MOIR7165, D.R.  
**SITE ADDRESS:** Over Bonne Femme Creek  
**TYPE(S) OF STRUCTURE(S):** Bridge

[illegible]

N-ACM = Non-Asbestos Containing Material	I NF = Category I Nonfriable	II NF = Category II Nonfriable	F = Friable
NAFD = No Asbestos Fiber Detected	* = Tested By Point Count Procedure		



MISSOURI DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION AND MATERIALS

# Asbestos Survey Report

## Nonfriable Asbestos-Containing Materials

(Abatement not required if not made friable during demolition.)



2

Frank Reichart and Diane Roegge

7119101817MOIR11239, F.R.

7119101817MOIR7165, D.R.

## Over Bonne Femme Creek

---

Bridge

163

---

N/A

CD

---

Boone

N/A

Bridge W-0559

**TESTED BY:**

**CERTIFICATION #:**

**CERTIFICATION #:**

**SITE ADDRESS:****TYPE(S) OF STRUCTURE(S):**[illegible]



MISSOURI DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION AND MATERIALS  
Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes

ROUTE:	163
MODOT JOB NO.:	N/A
DISTRICT:	CD
COUNTY:	Boone
SURVEYED BY:	Frank Reichart
DATE OF SURVEY:	June 25, 2018

TESTED BY:	N/A
DATE OF TESTS:	N/A
PARCEL NO.:	Bridge W-0559
SITE ADDRESS:	Over Bonne Femme Creek
TYPE(S) OF STRUCTURE(S):	Bridge

[illegible]

All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050 b = USEPA SW-846 Method 7471



CERTIFICATION NUMBER:

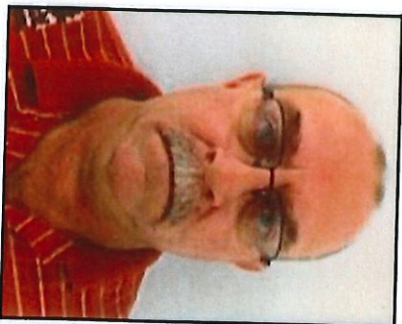
**7119101817MOIR11239**

THIS CERTIFIES

**Francis J Reichart**

HAS COMPLETED THE CERTIFICATION  
REQUIREMENTS FOR

**Inspector**



APPROVED: **10/23/2017**

EXPIRES: **10/23/2018**

TRAINING DATE: **10/18/2017**

*Kyra J. Moore*

Director of Air Pollution Control Program

CERTIFICATION NUMBER:

**7119101817MOIR7165**

THIS CERTIFIES

**Diane R Roegge**

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

**Inspector**



APPROVED: **10/23/2017**

TRAINING DATE: **10/18/2017**

EXPIRES: **10/23/2018**

*Kyra L Moore*

Director of Air Pollution Control Program