



ASBESTOS CONTAINING MATERIAL INVESTIGATION REPORT

S-38-191 (MIDDLE WILLOW RD.) BRIDGE OVER
ROBERTS SWAMP
ORANGEBURG COUNTY, SOUTH CAROLINA
PROJECT ID# PO44269

PREPARED FOR:



c/o Mr. Trapp Harris, PE
SCDOT
955 Park Street
Columbia, SC 29201

PREPARED BY:

F&ME Consultants, Inc.
211 Business Park Blvd
Columbia, South Carolina 29203

January 22, 2024

☐ ACM was found.

☒ ACM was not found.

F&ME Project No.: G7100.009

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1. EXECUTIVE SUMMARY

This executive summary is intended as an overview for the convenience of the reader. This report should be reviewed in its entirety prior to making any decisions regarding this project.

F&ME Consultants, Inc. (FME) has completed an Asbestos Containing Material (ACM) Investigation of S-38-191 (Middle Willow Rd.) Bridge over Roberts Swamp (Bridge) in Orangeburg County, South Carolina at the request of the South Carolina Department of Transportation (SCDOT) (Client). The field investigation was performed on January 14, 2025, in anticipation of an on-alignment replacement of the existing Bridge. This investigation was also conducted pursuant to the South Carolina Department of Environmental Services (SCDES), United States Environmental Protection Agency (USEPA), National Emission Standards for Hazardous Air Pollutants (NESHAP), and Occupational Safety and Health Administration (OSHA) regulations requiring an ACM investigation prior to any demolition activities.

Per an agreed upon scope of work, FME performed this investigation to identify ACM that might be encountered during the demolition activities associated with the existing Bridge and to provide recommendations regarding proper handling and disposal of ACM found. The investigation of the Bridge identified no suspect materials associated with the existing Bridge. Therefore, at this time, no special handling or disposal requirements are required regarding ACM. However, during the course of demolition activities, previously concealed ACM might be discovered. If suspect ACM (i.e., bond break bearing pad materials) is found, the affected contractor(s) must stop work, take appropriate actions, and notify the Owner/Asbestos Consultant for an appropriate response action. The SCDES must be notified if any suspect ACM is discovered.

We sincerely appreciate the opportunity to assist you with this project. Should you have any questions or require additional information concerning this Investigation, please do not hesitate to contact our office at (803) 254-4540.

Sincerely,

F&ME CONSULTANTS



James T. Timmons

Environmental Professional
Asbestos Consultant/Management Planner
SCDES License No: MP-00196
Expiration Date 01/29/2025



Glynn M. Ellen

Environmental Department Manager
Asbestos Consultant/Management Planner
SCDES License No: ASB-22641
Expiration Date 01/29/2025

2. INTRODUCTION

FME has completed an ACM investigation of the S-38-191 (Middle Willow Rd.) Bridge over Roberts Swamp in Orangeburg County, South Carolina. The investigation was performed on January 14, 2025. This investigation was conducted pursuant to SCDES, USEPA, NESHAP, and OSHA regulations which require an ACM investigation prior to any demolition activities. Refer to Appendix A, Site Vicinity Map, for the location of the Bridge.

It is our understanding that the proposed project will include the complete demolition and removal of the existing Bridge and replacement with a new bridge along the existing alignment. The purpose of this investigation was to determine if asbestos was present on the existing Bridge by identifying and sampling suspect ACM, obtaining analytical results, quantifying any confirmed ACM, and assessing the physical condition of the ACM, where possible.

This report has been prepared exclusively for the Client and shall not be disseminated in whole or part to other parties without prior consent from the Client or FME. No other environmental issues were addressed as part of this report.

3. EXISTING BRIDGE STRUCTURE

The existing Bridge (21.0' L x ≈24.0' W inside curb to inside curb) is located on S-38-191 (Middle Willow Rd.) and crosses over Roberts Swamp in Orangeburg County, South Carolina. The construction date of the Bridge is unknown. The Bridge structure consists of a two (2) cell poured-in-place (PIP) concrete box culvert, concrete wing walls, and a two-lane asphalt overlay. The roadway was washed out on each end of the Bridge during Hurricane Helene in September 2024. In addition, a buried utility cable was exposed on the southern side of the Bridge. Refer to Appendix A, Site Vicinity Map, for the location of the structure.



Photo 1: S-38-191 (Middle Willow Rd.) Bridge over Roberts Swamp in Orangeburg County, SC

4. FIELD ASSESSMENT

The Bridge was recently damaged during Hurricane Helene. The soils on the approach to both sides of the Bridge were washed out during the storm. During the investigation, accessible bridge components (i.e., expansion joints, etc.) were visually inspected for suspect ACM. Examples of possible suspect materials include bond break bearing pads, expansion joint material, and drainage scuppers. No suspect materials were observed/visible on the Bridge. Refer to the included Appendix B, General Bridge Plan. Also, refer to Appendix D, Site Photographs, for more details.

5. RECOMMENDATIONS

The results, conclusions, and recommendations of this Investigation are representative of the conditions observed at the site on the date of the field investigation. FME does not assume responsibility for any changes in conditions or circumstances that may have occurred after this investigation.

It is our understanding that the Bridge is to be demolished in anticipation of an on-alignment replacement of the existing Bridge structure. **No suspect materials were associated with the existing Bridge.** Therefore, there are no foreseen special handling or disposal requirements, regarding asbestos, that will be required for the demolition of this Bridge.

If any concealed and/or inaccessible suspect ACM (i.e., bond break bearing pad materials) are encountered during the demolition activities, the affected contractor(s) must stop work, take appropriate actions, and notify the Owner/asbestos Consultant for an appropriate response action. The SCDES must be notified if any suspect ACM is discovered.

We sincerely appreciate the opportunity to be of service to SCDOT in this matter. If you have any questions regarding the information presented herein, please contact our office at (803) 254-4540.

APPENDICES

Appendix A – Site Vicinity Map

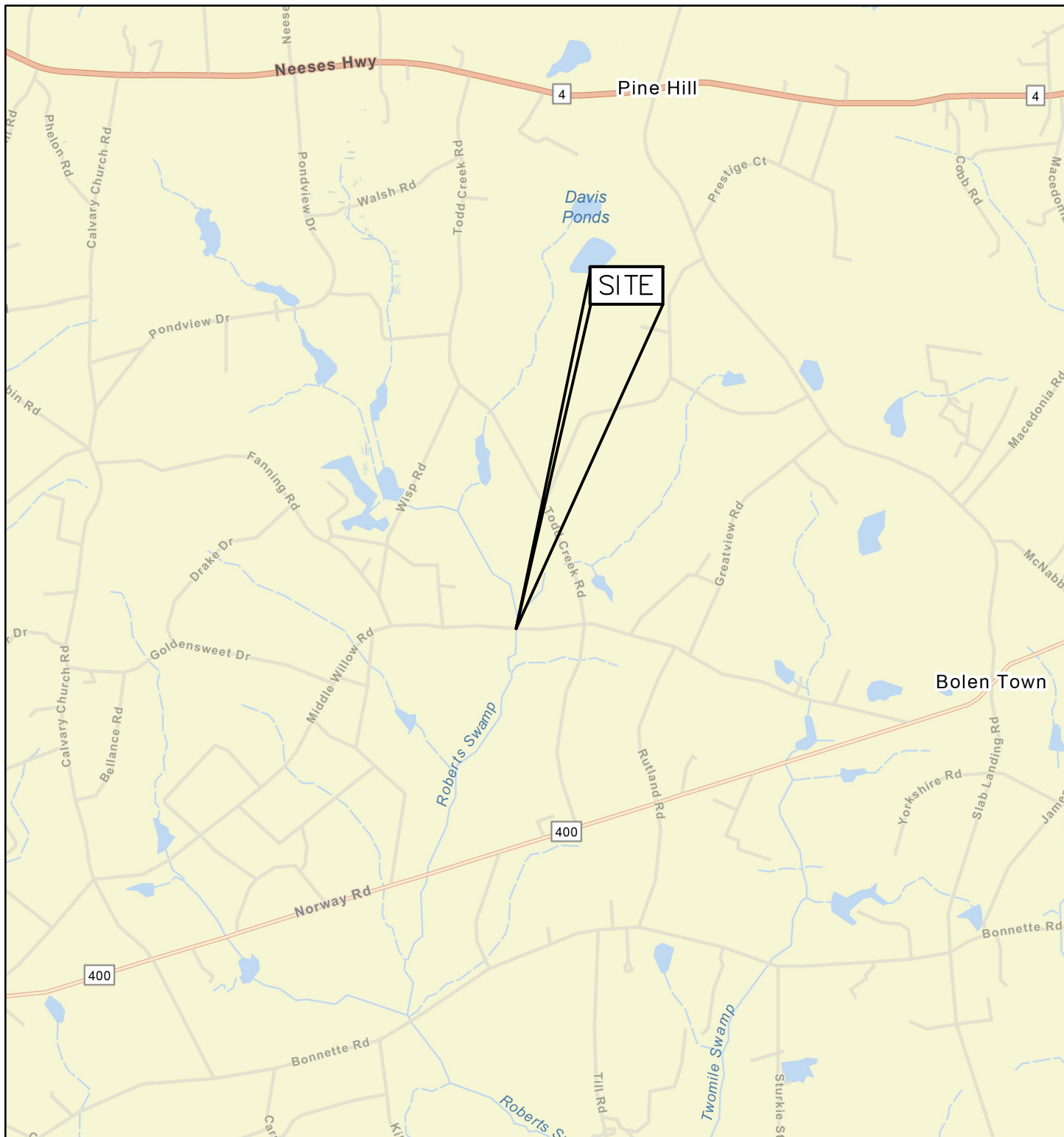
Appendix B – General Bridge Plan

Appendix C – Personnel Certifications

Appendix D – Site Photographs

Appendix A

Site Vicinity Map



1:58,000

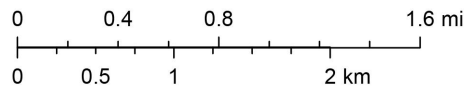


FIGURE
NUMBER:

1

F&ME CONSULTANTS
PROJECT NUMBER:

G67100.009

ASBESTOS CONTAINING MATERIALS INVESTIGATION
S-38-191 Bridge over Roberts Swamp
Orangeburg County, SC
Site Vicinity Map
Prepared for: SCDOT
955 Park Street
Columbia, SC 29201



211 BUSINESS PARK BLVD.
COLUMBIA, SC 29203

ORIGINAL:
January 15, 2025

REVISIONS:

1
2
3

SCALE:
AS SHOWN

DRWN. BY: MSM
CHKD. BY: JTT
APPR. BY: GME

NOTES:

Appendix B

General Bridge Plan

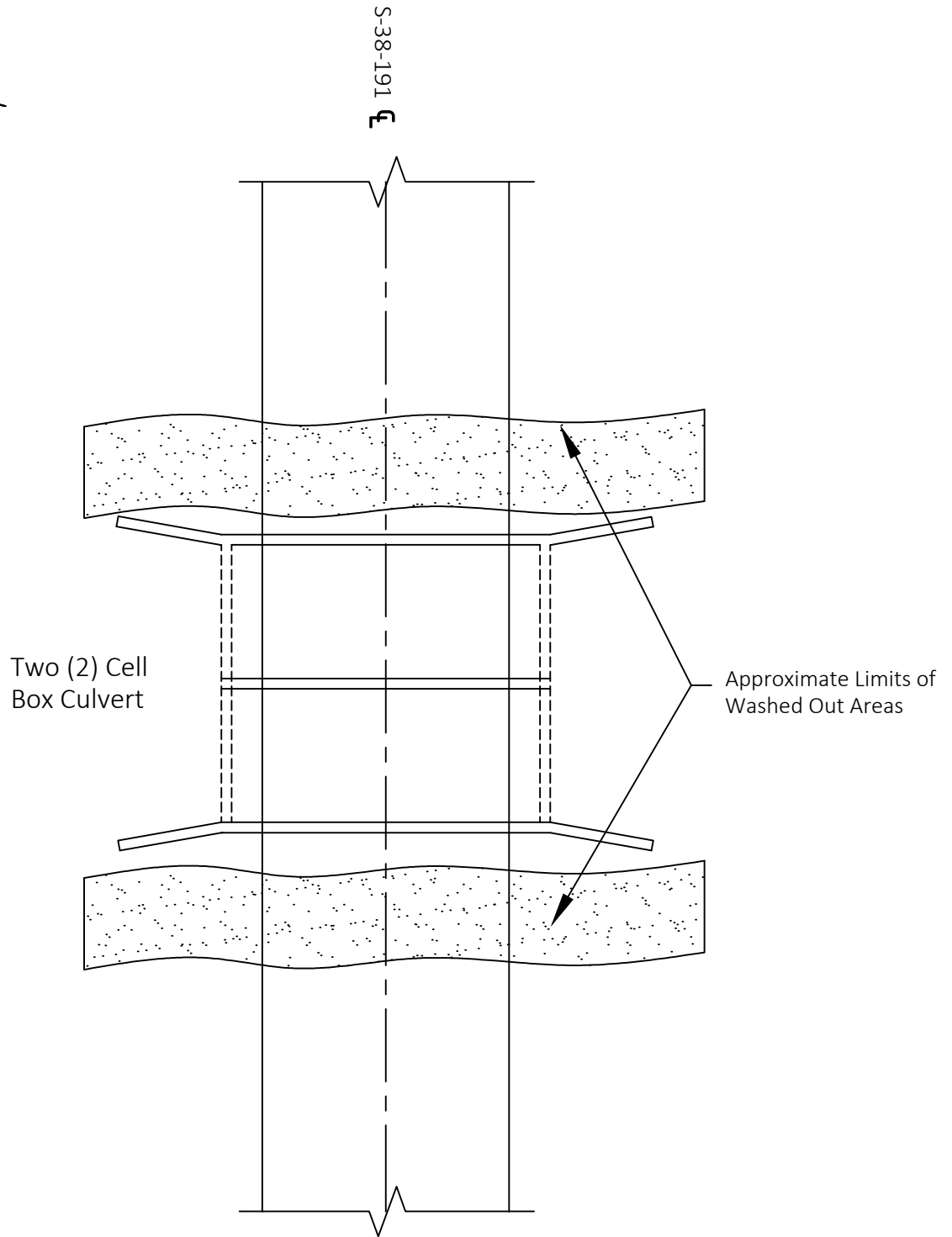


FIGURE
NUMBER:

2

F&ME CONSULTANTS
PROJECT NUMBER:

G7100.009

ASBESTOS CONTAINING MATERIALS INVESTIGATION
S-38-191 Bridge over Roberts Swamp
Orangeburg County, SC

General Bridge Plan
Prepared for: SCDOT
955 Park Street
Columbia, SC 29201



211 BUSINESS PARK BLVD.
COLUMBIA, SC 29203

ORIGINAL:
January 15, 2025

REVISIONS:

1 _____
2 _____
3 _____

SCALE:
N.T.S.

DRWN. BY: MSM
CHKD. BY: JTT
APPR. BY: GME

NOTES:

Appendix C

Personnel Certifications

SCDHEC ISSUED

Asbestos ID Card

James T Timmons



**AIRSAMPLER
CONSULTMP
SUPERAHERA**

**AS-00423
MP-00196
SA-02244**

Expiration Date:

01/30/25

01/29/25

01/30/25

This card is nontransferable and considered invalid if loaned or given to another person for identification. This card will also be invalid if altered or defaced. This card is property of SCDHEC. It must be returned to the department if the holder's accreditation is revoked or if this card is invalidated. Any person performing regulated asbestos activities without current accreditation shall be subject to legal sanction. This card must be returned upon expiration and/or issuance of a new card.

YOU MUST HAVE THIS IDENTIFICATION CARD WITH YOU ON THE JOB.

For information of corrections contact: SCDHEC - Asbestos Section
2600 Bull Street
Columbia, SC 29201
(803) 898-4289



SCDES ISSUED

Asbestos ID Card



Glynn M Ellen



**AIRSAMPLER
CONSULTMP
CONSULTPD
SUPERAHERA**

**AS-00079
ASB-22641
PD-00098
SA-00455**

Expiration Date:

**01/30/25
01/29/25
08/07/25
01/30/25**

This card is nontransferable and considered invalid if loaned or given to another person for identification. This card will also be invalid if altered or defaced. This card is property of SCDES. It must be returned to the department if the holder's accreditation is revoked or if this card is invalidated. Any person performing regulated asbestos activities without current accreditation shall be subject to legal sanction. This card must be returned upon expiration and/or issuance of a new card.

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For information of corrections contact

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2600 Bull Street
Columbia, SC 29201
(803) 898-4289



Appendix D

Site Photographs



Photo 1. Top View of Bridge Deck.



Photo 2. Northwestern Corner View of Bridge.



Photo 3. Southeastern Corner View of Bridge.



Photo 4. Southern View of Bridge.



Photo 5. Southern View of Bridge.



Photo 6. Northern View of Bridge

