



ASBESTOS CONTAINING MATERIAL INVESTIGATION REPORT

US 278 OVER BEAVERDAM BRANCH
BRIDGE ASSETS #01190 AND #01191
JASPER COUNTY, SOUTH CAROLINA

PREPARED FOR:



C/o Mr. Trapp Harris, PE
955 Park St,
Columbia, SC 29201

PREPARED BY:

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

October 18, 2024

☐ ACM was found.
☒ ACM was not found.

F&ME Project No.: G7100.006

TABLE OF CONTENTS

1.	Executive Summary.....	1
2.	Introduction.....	2
3.	Existing Bridge Structure	2
4.	Field Assessment	4
5.	Recommendations.....	3
	APPENDICES	4

Appendix A – Site Vicinity Map

Appendix B – General Bridge Plan

Appendix C – Personnel Certifications

Appendix D – Site Photographs



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 Bridge Assets #01190 and #01191 located along US 278 over Beaverdam Branch (Bridge), in Jasper County, South Carolina at the request of the South Carolina Department of Transportation (SCDOT) (Client). The field investigation was performed on October 15, 2024, in anticipation of the on-alignment replacement of two existing adjacent double barrel box culvert structures (Bridge). This investigation was also conducted pursuant to 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 and/or renovation activities.

Per an agreed upon scope of work, FME performed this investigation to identify any ACM that might be encountered during the demolition activities, associated with the existing Bridges, and to provide recommendations regarding proper handling and disposal of any ACM found. **The investigation of the subject Bridges found no suspect materials.** 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 ACM 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



Brianna M. Bailey
Environmental Professional
Asbestos Consultant/ Management Planner
SCDES License No: MP-00325
Expiration Date 03/14/2025



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 Bridge Assets #01190 and #01191 located along US 278 over Beaverdam Branch, in Jasper County, South Carolina. The investigation was performed on October 15, 2024. This investigation was conducted pursuant to SCDES, USEPA, NESHAP, and OSHA regulations which require an ACM investigation prior to any demolition and/or renovation activities. Refer to Appendix A, Site Vicinity Map for the location of Bridge.

It is our understanding that the proposed project will include the complete demolition and removal of the existing bridge structure, and replacement with a new bridge on the existing horizontal alignment. The purpose of this investigation was to determine if asbestos was present on the existing bridge structure 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 Bridges ($\approx 72.0'$ L x $46.0'$ W, culvert edge to edge) are located on US 278 over Beaverdam Branch in Jasper County, South Carolina. The construction date of the Bridges are unknown. The existing Bridges consists of two (2) double barrel poured-in-place (PIP) concrete box culverts and associated concrete wing walls on the horizontal alignment of US 278. The culverts were originally backfilled with soil between them and had an asphalt overlay but were both washed out and uncovered durring hurricane Helene. A metal utility line was attached to the northeast side of the Bridges that runs the entire length of both culverts. Refer to Appendix A, Site Vicinity Map, for the location of the structure.



Photo 1: US 278 over Beaverdam Branch in Jasper County, South Carolina



4. FIELD ASSESSMENT

During the investigation, accessible bridge components were visually inspected for suspect ACM. Examples of possible suspect materials include expansion and construction joint materials and drainage scuppers. The culverts were constructed in horizontal alignment with US 278 and backfilled with soil with an asphalt overlay. No suspect ACM materials were identified on the subject Bridge. Refer to Appendix B, General Bridge Plan. Also, refer to Appendix G, 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 subject Bridges are to be demolished in anticipation of the construction of a new Bridge on the existing horizontal alignment. **No suspect ACM were found on the Bridge.** Therefore, there are no foreseen special handling or disposal requirements, regarding asbestos, that will be required for the demolition of this Bridges.

If any concealed and/or inaccessible suspect ACM (i.e., bond break 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. SCDES must be notified if any suspect ACM is discovered.

This report has been prepared exclusively for the Client and FME and shall not be disseminated in whole or in part to other parties without prior consent from the Client. Use of this document for bidding purposes is not recommended without prior consultation with FME.

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

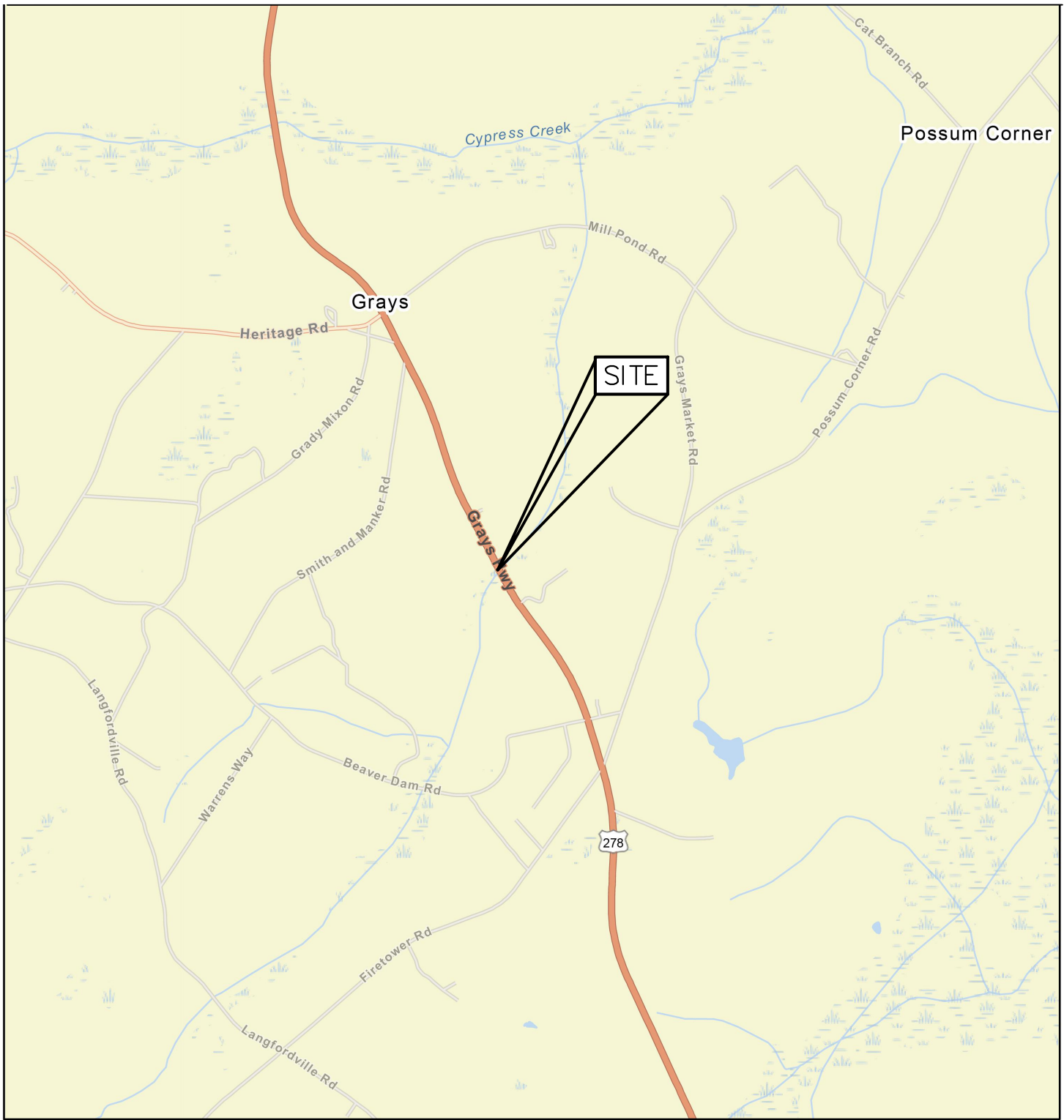
Appendix C – Personnel Certifications

Appendix D – Site Photographs



Appendix A

Site Vicinity Map



1:46,000

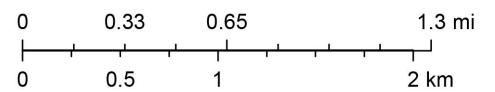


FIGURE
NUMBER:

1

F&ME CONSULTANTS
PROJECT NUMBER:

G7100.006

ASBESTOS CONTAINING MATERIALS INVESTIGATION
US 278 Bridge over Beaverdam Branch
Jasper County, SC
Site Vicinity Map
Prepared for: SC Department of Transportation
955 Park Street
Columbia, SC 29201



211 BUSINESS PARK BLVD.
COLUMBIA, SC 29203

ORIGINAL:
October 15, 2024

REVISIONS:

1
2
3

SCALE:
AS SHOWN

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

NOTES:

Appendix B

General Bridge Plan

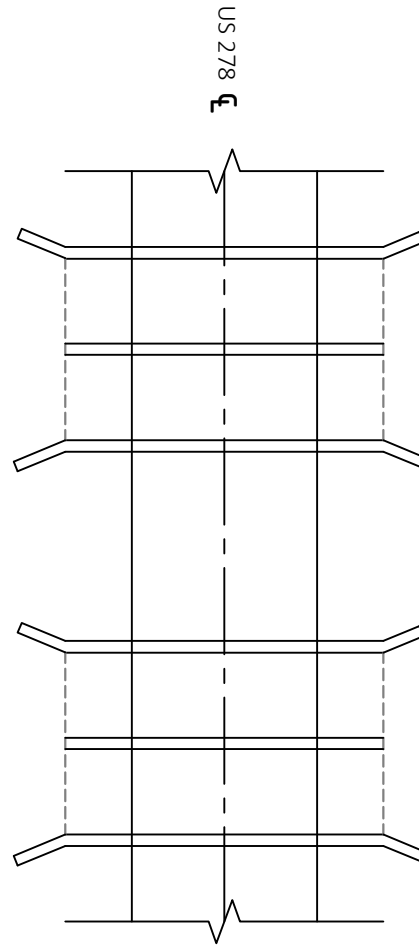


FIGURE
NUMBER:

2

F&ME CONSULTANTS
PROJECT NUMBER:

G7100.006

ASBESTOS CONTAINING MATERIALS INVESTIGATION
US 278 Bridge over Beaverdam Branch
Jasper County, SC
General Bridge Plan
Prepared for: SC Department of Transportation
955 Park Street
Columbia, SC 29201



211 BUSINESS PARK BLVD.
COLUMBIA, SC 29203

ORIGINAL:
October 15, 2024

REVISIONS:

1 _____
2 _____
3 _____

SCALE:
N.T.S.

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

NOTES:

Appendix C

Personnel Certifications



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.

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

For information of corrections contact

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



SCDHEC ISSUED

Asbestos ID Card

Brianna Bailey



**AIRSAMPLER
CONSULTMP
SUPERAHERA**

**AS-000749
MP-000325
SA-004090**

Expiration Date:

05/02/25

03/14/25

05/02/25

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

Appendix D

Site Photographs



Photo 1. Top View of Bridge.



Photo 2. Southwest Corner View of Bridge.



Photo 3. Washout Between the Culverts.



Photo 4. Bridge Asset Number Attached to Concrete Culvert.



Photo 5. Bridge Asset Number Attached to Concrete Culvert.

