GEOTECHNICAL DATA SUMMARY REPORT

SC 200 OVER WATEREE CREEK
FAIRFIELD COUNTY, SOUTH CAROLINA
S&ME PROJECT NO. 1611-10-294

Prepared For:

STV / Ralph Whitehead Associates
4975 Lacross Road Suite 314
North Charleston, SC 29406-6531

Prepared By:

134 Suber Road
Columbia SC 29210

November 15, 2011

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STV / Ralph Whitehead Associates
4975 Lacross Road Suite 314
North Charleston, SC 29406-6531

Attention: Mr. Dan Moses, P.E.

Reference: GEOTECHNICAL DATA SUMMARY REPORT
SC 200 Over Wateree Creek
Fairfield County, South Carolina
S&ME Project No. 1611-10-294

Dear Mr. Moses:

We have completed our Geotechnical Exploration for the replacement bridge over Wateree Creek in Fairfield County, South Carolina. Our exploration was performed in general accordance with our Master Services Subconsultant Agreement dated May 9, 2007.

As requested, S&ME, Inc. personnel were present at the above referenced site to conduct MASW testing. Soundings were generally conducted at the bridge locations as shown in Figure 2 – *Test Location Plan.*

Shear wave velocities were measured near the proposed bridge location as shown on the Test Location Plan using Multi-Channel Analysis of Surface Waves (MASW) and Microtremor Array Method (MAM) with non-linear array geometry, combining the dispersion curves from both tests prior to the inversion process.

This data report has been prepared in accordance with generally applicable standards of our practice in this geographic area at the time this report was prepared. No other warranty, express or implied, is made. The Geotechnical Engineer of Record for the project must review the data submitted in this report and develop their own interpretation of the testing results as they apply to design.

Environmental assessment of soils, water, wetlands, and endangered species was not included in our scope of services for this project. The information contained in this report is intended for SCDOT's engineering interpretation of the data collected.

S&ME, Inc. appreciates this opportunity to work with STV/Ralph Whitehead Associates as your local geotechnical consultant on this project. If you have any questions or need any further information in regard to this letter, please do not hesitate to contact us at 803-561-9024.

Sincerely,

S&ME, Inc.

Matt Longshore, EIT
Staff Professional

Michael (Trapp) Harris, PE
Geotechnical Department Manager

ML/TH

APPENDIX

Site Vicinity Map (Figure 1)

Test Location Plan (Figure 2)

MASW Shear Wave Velocity Profile

SCALE:	AS SHOWN	S&ME	**SITE VICINITY MAP** SC 200 OVER WATEREE CREEK LANCASTER COUNTY, SOUTH CAROLINA	FIGURE NO. 1
DRAWN BY:	ML			
CHECKED BY:	TH			
DATE:	9/27/2011		JOB NO: **1611-10-294**	

LEGEND

Approximate MAM Test Location

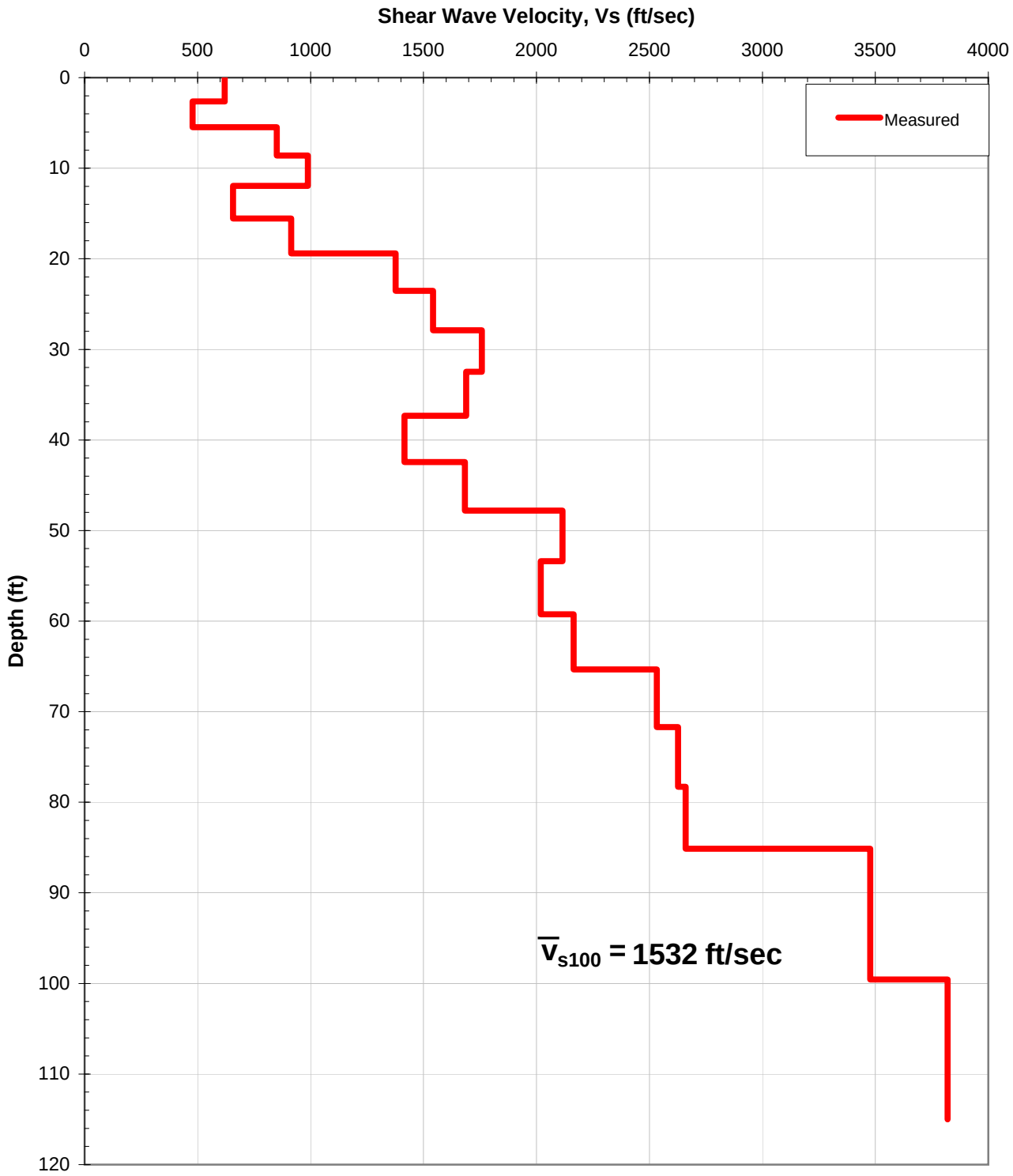
Approximate MASW Test Location

SCALE:	AS SHOWN
DRAWN BY:	ML
CHECKED BY:	TH
DATE:	9/27/2011

S&ME

TEST LOCATION PLAN
SC 200 OVER WATEREE CREEK
LANCASTER COUNTY, SOUTH CAROLINA

JOB NO: **1611-10-294**

FIGURE NO.
2

Shear Wave Velocity Profile SW-1
RBO Wateree Creek
Fairfield, South Carolina
1611-10-294