

**EUSTIS ENGINEERING COMPANY, INC.**  
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10 February 2006

Textron Marine & Land Systems  
19401 Chef Menteur Highway  
New Orleans, Louisiana 70129

Attention Mr. Tony Andrews  
PN 254-4912  
Email [tandrews@tmls.textron.com](mailto:tandrews@tmls.textron.com)

Gentlemen:

Cone Penetrometer Tests  
Textron Marine & Land Systems  
Chef Menteur Highway  
New Orleans, Louisiana  
Eustis Engineering Project No. 19213

As requested by Mr. Tony Andrews, representing Textron Marine and Land Systems, Eustis Engineering Company, Inc., has made cone penetrometer tests at three locations within your New Orleans East facility. These CPTs are at the locations of generators that will be installed by Louisiana Machinery Co., LLC.

#### Cone Penetrometer Tests

Three CPTs were made on 31 January 2006 at or near the locations designated by Louisiana Machinery as receiving the generators. CPT-1 was made at Site 1 east of Building 1 and adjacent to the New Orleans levee. CPT-2 was made north of Building 16 and CPT-3 was attempted just north of Building 13. CPT-1 and CPT-2 were made to 70-ft depths. However, several attempts to advance CPT-3 were unsuccessful because of underground obstructions.

The CPTs were performed using an electronic piezocone penetrometer having a 5-ton capacity. This piezocone has a 10-cm<sup>2</sup> cross-sectional area cone with a 60° apex angled tip and a 150-cm<sup>2</sup> friction sleeve area. The sleeve friction is measured directly using a tension load cell. The testing was carried out in accordance with the methods and procedures outlined in ASTM D 5778-95 (2000). The penetrometer will be hydraulically

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advanced into the ground at the rate of 2 cm/sec. During piezocone testing, CPT parameters (tip resistance, friction resistance, and pore pressure) were recorded at 5-cm depth intervals. The results of the CPTs were plotted graphically on the CPT logs.


Stratigraphy

Interpretive plots of stratigraphy are shown on the CPT logs appended to this letter. These are based on the CPT parameters and developed in accordance with the methodology proposed by Robertson and Campanella, 1986.

We hope this fulfills your immediate needs relative to the project. Should you require further information or clarification of this letter, please do not hesitate to contact us.

Yours very truly,

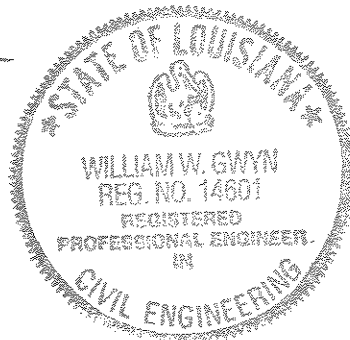
EUSTIS ENGINEERING COMPANY, INC.

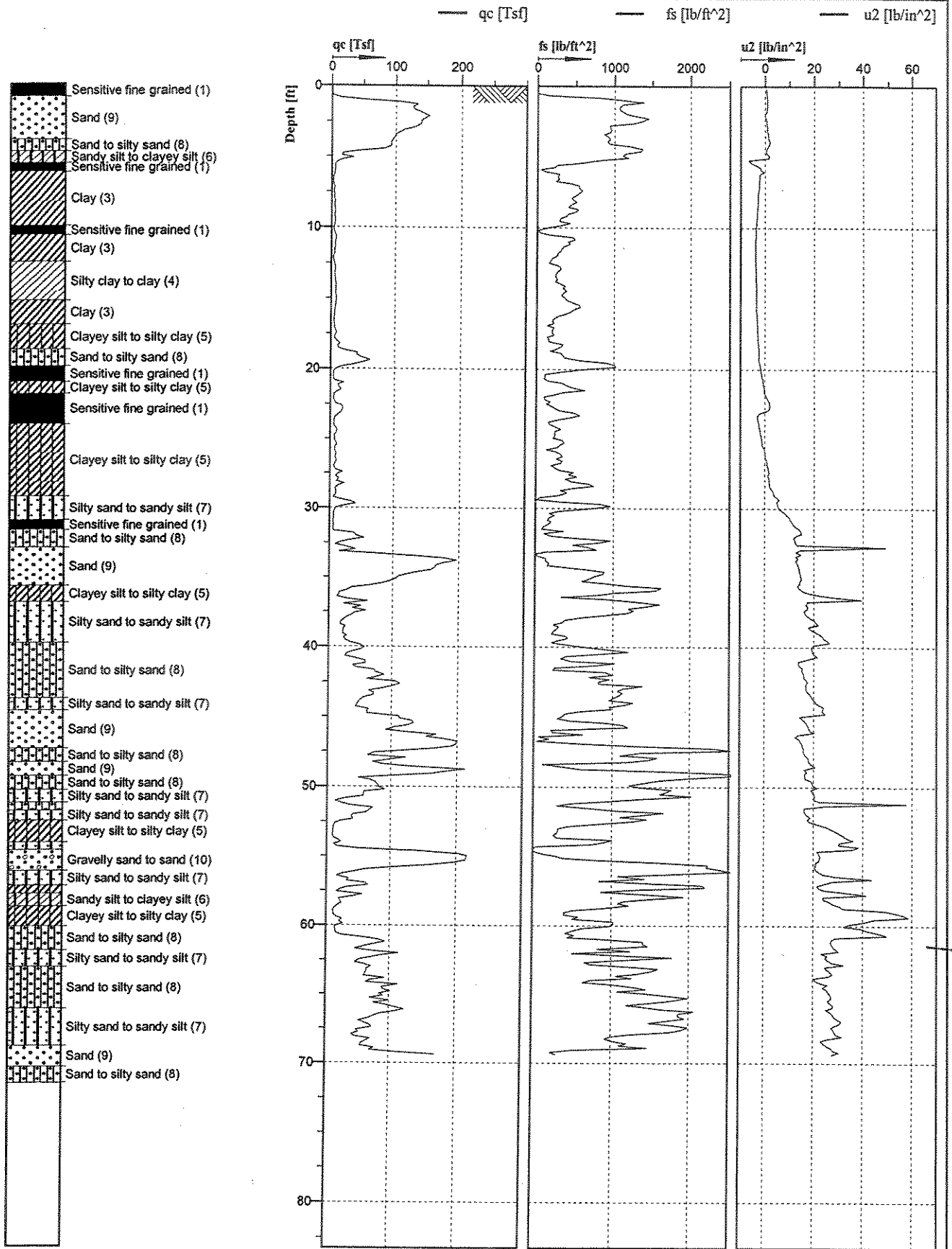


WILLIAM W. GWYN, P.E.

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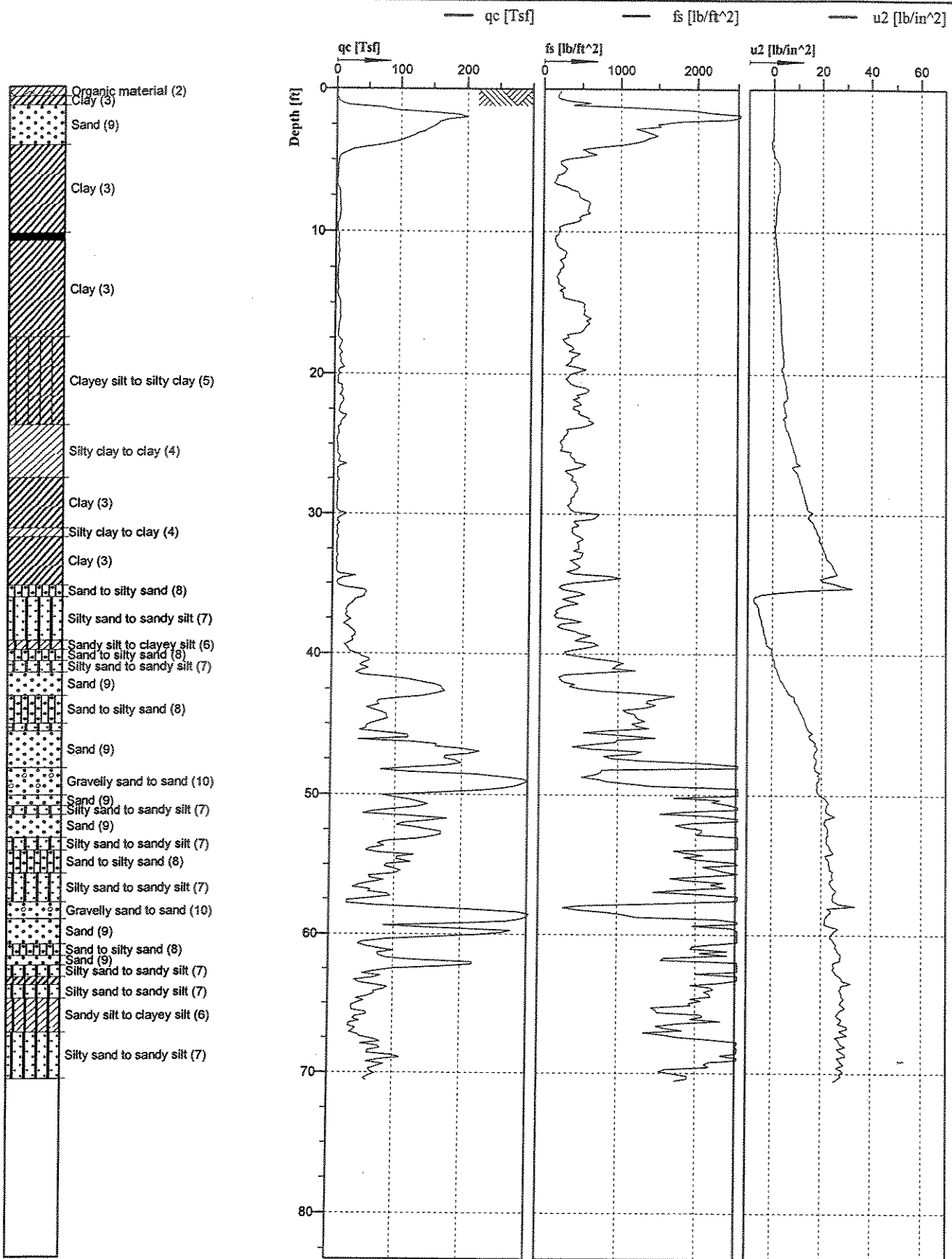
Enclosures





Cone No: 702TC  
 Tip area [cm<sup>2</sup>]: 10  
 Sleeve area [cm<sup>2</sup>]: 150

Location: New Orleans, LA	Position:	Ground level:	Test no: CPT1
Project ID: 19213	Client: Textron Marine and Land Systems	Date: 01-31-06	Scale: 1 : 120
Project: Cone Penetrometer Tests, Chef Menteur Highway		Page: 1/2	Fig:
File: TGP1.CPD			



Cone No: 7027C  
 Tip area [cm<sup>2</sup>]: 10  
 Sleeve area [cm<sup>2</sup>]: 150

Location: New Orleans, LA	Position:	Ground level:	Test no: CPT2
Project ID: 19213	Client: Textron Marine and Land Systems	Date: 01-31-06	Scale: 1 : 120
Project: Cone Penetrometer Tests, Chef Menteur Highway		Page: 1/1	Fig:
File: TGP2.cpd			