

### **Vogtle Units 3 & 4 COL Project**

### Attachment B

### Geotechnical Boring Logs Geotechnical Test Pit Logs SPT Energy Ratio Measurements

Volume 1 of 1

Job No. 6141-06-0286

MACTEC ENGINEERING AND CONSULTING, INC.

**November 9, 2007** 



November 9, 2007

Mr. Tom McCallum Georgia Power Company C/O Southern Nuclear Operating Company, Inc. 40 Inverness Center Parkway Post Office Box 1295 Birmingham, Alabama 35201 Phone: (205) 992-6697

e-mail: tomccall@southernco.com

Subject:

Geotechnical Data Report Attachment B - Geotechnical Boring Logs,

Geotechnical Test Pit Logs, SPT Energy Ratio Measurements

**Vogtle Units 3 & 4 COL Project Vogtle Electric Generating Plant** 

Burke County, Georgia

MACTEC Project Number 6141-06-0286

Dear Mr. McCallum:

MACTEC Engineering & Consulting, Inc. is pleased to submit Attachment B of the Final Data Report for the geotechnical exploration and laboratory testing for the Vogtle Units 3 & 4 COL Project located adjacent to the existing Vogtle Electric Generating Plant near Waynesboro, Burke County, Georgia.

It has been a pleasure to perform the work described in the attached report. If you have any questions, or if we may be of further service, we hope that you will contact us at your convenience.

Sincerely,

MACTEC ENGINEERING & CONSULTING, INC.

ERMISSION

Matthew F. Cooke

Senior Geologist Site Superintendent

Registered, Georgia 1887

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Project Manager

Civil Engineer

Registered, Georgia 7075

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Pencipal Geotechnical Engineer Registered, Georgia 19637

#### ATTACHMENT B

This Attachment is one of a number of attachments that are part of the following report which was prepared by MACTEC Engineering & Consulting Inc.:

Geotechnical Data Report
Vogtle Units 3 & 4 COL Project
Vogtle Electric Generating Plant
Burke County, Georgia
Subsurface Investigation and Laboratory Testing
SNC Subcontract No. 7074425
MACTEC Job No. 6141-06-0286

For background and a description of scope of work contained in the report, please refer to the above referenced report. The report was addressed as follows:

Mr. Tom McCallum Georgia Power Company C/O Southern Nuclear Operating Company, Inc. 40 Inverness Center Parkway Post Office Box 1295 Birmingham, Alabama 35201 Phone: (205) 992-6697

e-mail: tomccall@southernco.com

### ATTACHMENT B

### **CONSISTS OF:**

TABLE B-1: LIST OF BORING AND TEST PIT LOGS
LOG OF REVISIONS TO GEOTECHNICAL BORING LOGS
GEOTECHNICAL BORING LOGS
GEOTECHNICAL TEST PIT LOGS
SPT ENERGY RATIO MEASUREMENTS

Volume 1 of 1

### TABLE B-1

### List of Boring and Test Pit Logs

#### NOTE CONCERNING PREPARATION AND REVIEW OF BORING AND TEST PIT LOGS:

The boring and test pit logs listed in Table B-1 and contained in Attachment B were prepared in the MACTEC Atlanta office using the gINT Software Program. The boring and test pit logs were prepared, checked, and reviewed by those listed in the signature blocks below.

Prepared By:

Alexandra Taylor

Checked By:

Matthew F. Cooke

Martha I. Herrera

Reviewed By:

Pieter J. DePree

Boring Number	Depth or Depth Interval (feet)	Change
B-1105	82.0 - 87.0	Revised classification from SILT, gravelly (MH) to SILT (MH)
B-1105	92.0 – 97.0	Revised classification from SAND, clayey with gravel (SC) to SAND, clayey (SC)
B-1105	107.0 - 122.0	Revised classification from CLAY, sandy with gravel (CH) to CLAY, sandy with shell fragments (CH)
B-1107	52.0 - 57.0	Revised classification from CLAY, gravelly (CL) to CLAY (CL)
B-1107	67.0 - 72.0	Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)
B-1107	82.0 - 87.0	Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)
B-1107	97.0 – 102.0	Revised classification from GRAVEL, with clay and sand (GP-GC) to SHELL HASH, with clay and sand (GP-GC)
B-1107	102.0 – 107.0	Revised classification from contains traces of gravel to contains traces of shells
B-1107	107.0 – 112.0	Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)
B-1107	128.5 – 132.0	Revised classification from contains shell fragments to contains shell fragments and cemented nodules
B-1107	132.0 – 136.5	Revised classification from SAND, silty with gravel (SM) to SAND, silty (SM)
B-1108	32.0 – 37.0	Revised classification from with traces of fine GRAVEL and CLAY to with traces of shells and CLAY
B-1108	37.0 – 42.0	Revised classification from traces of silt and gravel, medium grained with well-rounded gravel to traces of silt and cemented nodules
B-1108	67.0 – 72.0	Revised classification from SAND, with gravel (SW-SC) to SAND, clayey (SC)
B-1108	72.0 – 77.0	Revised classification from trace of sub-rounded gravel, +HCL to trace of sub-rounded cemented nodules, +HCL
B-1108	82.0 – 87.0	Revised classification from GRAVEL, with sand (GP-GC) to SHELL HASH (GP)
B-1108	87.0 – 92.0	Revised classification from SAND, clayey (SW-SC) to SAND, clayey (SC)
B-1108	102.0 – 117.0	Revised classification from GRAVEL, with clay (SC) and SAND, with clay and gravel (SP-SC) to SAND, with clay (SP-SC)
B-1108	122.0 – 127.0	Revised classification from SAND, clayey and gravelly (SP-SC) to SAND, clayey (SC)
B-1108	127.0 – 138.5	Revised classification from SAND, with silt and gravel (SP-SM) to SAND, with silt (SP-SM)
B-1109	46.0 – 52.0	Revised classification from CLAY, silty with gravel (CL-ML) to CLAY, silty (CL-ML)
B-1109	67.0 - 82.0	Revised classification from CLAY, gravelly (CL) and CLAY, with gravel (CL) to CLAY, with shell hash (CL)
B-1110	57.0 – 72.0	Revised classification from CLAY, gravelly (CL) to CLAY, with shell hash (CL)
B-1110	72.0 – 77.0	Revised classification from SAND, silty with gravel (SM) to SAND, silty with shell fragments (SM)
B-1110	82.0 - 87.0	Revised classification from CLAY, gravelly (CL) to CLAY, with shell hash (CL)

Log of Revisions to Geotechnical Boring Logs

Boring Number	Depth or Depth Interval (feet)	Change
B-1110	87.0 - 92.0	Revised classification from SAND, clayey with gravel (SC) to SAND, clayey (SC)
B-1110	112.0 – 118.0	Revised classification from CLAY, silty, gravelly (CL-ML) to CLAY, silty with cemented nodules (CL-ML)
B-1110	122.0 – 132.0	Revised classification from CLAY, with gravel (CL) to CLAY, with shell fragments (CL)
B-1112A	77.5 – 79.0	Revised classification from SILT, gravelly with sand (ML) to SILT, sandy with cemented layers (ML)
B-1116	62.0 - 67.0	Revised classification from CLAY, gravelly (CL) to CLAY, with shell hash (CL)
B-1116	77.0 - 82.0	Revised classification from CLAY, gravelly (CL) to CLAY (CL)
B-1116	82.0 - 87.0	Revised classification from CLAY, sandy with gravel (CL) to CLAY, sandy (CL)
B-1116	92.0 – 97.0	Revised classification from CLAY, gravelly with sand (CL) to CLAY, sandy (CL)
B-1116	127.0 - 132.0	Revised classification from SILT, with sand (ML) to SILT (ML)
B-1118	47.0 – 57.0	Revised classification from CLAY, silty with gravel (CL-ML) to CLAY, silty (CL-ML)
B-1118	57.0 - 67.0	Revised classification from SAND, clayey with gravel (SC) to SAND, clayey with shells (SC)
B-1118	72.0 – 82.0	Revised classification from CLAY, sandy with gravel (CL-ML) to CLAY, sandy (CL)
B-1118	82.0 – 97.0	Revised classification from SAND, clayey with gravel (SC) to SAND, clayey (SC)
B-1119	8.5 – 22.0	Revised classification from contains traces of fine SAND and angular GRAVEL, +HCL to contains traces of fine SAND and cemented nodules, +HCL
B-1120	57.0 – 67.0	Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)
B-1120	67.0 – 77.0	Revised classification from SAND, clayey with gravel (SC) to SAND, clayey (SC)
B-1120	82.0 – 86.75	Revised classification from GRAVEL, silty (GM) to SHELL HASH, silty (GM)
B-1123	83.5 – 87.0	Revised classification from GRAVEL, with clay and sand (GP-GC) to SHELL HASH, with clay and sand (GP-GC)
B-1123	102.0 - 108.5	Revised classification from GRAVEL, with clay (GP-GC) to SHELL HASH, with clay (GP-GC)
B-1125	86.8 – 91.75	Revised classification from GRAVEL, with clay and sand (GP-GC) to SHELL HASH, with clay and sand (GP-GC)
B-1125	91.75 – 96.5	Revised classification from SAND, with silt and gravel (SP-SM) to SAND, with silt (SP-SM)
B-1125	131.75 – 136.75	Revised classification from SILT, sandy (ML) to SILT, with cemented fragments (ML)
B-1126	37.0 – 42.0	Revised classification from GRAVEL, with clay (GP-GC) to SHELL HASH, with clay (GP-GC)
B-1127	87.0 – 97.0	Revised classification from CLAY, silty, sandy (CL-ML) and CLAY, silty with sand (CL-ML) to CLAY, with shells and cemented fragments (CL-ML)
B-1128	202.3	Removed Utley Limestone (Utley) reference
B-1129	76.8 - 81.7	Revised classification from GRAVEL, silty (GM) to SHELL

	Log of Revisions to Geo	technical Boring Logs
Boring	Depth or	Change
Number	Denth Interval (feet)	Change

Number	Depth Interval (feet)	Change	
		HASH, silty (GM)	
B-1131	81.75 – 85.0	Revised classification from CLAY (CL) - Brown (10YR 4/3), hard, -HCL, contains pale yellow (5Y 8/2) GRAVEL, +HCL in last 1" to CLAY (CL) brown (10YR 4/3), hard, -HCL	
B-1131	85.0 – 88.5	Revised classification from GRAVEL (GP) to SHELL HASH (GP)	
B-1131	93.5	Revised classification from contains SAND and shell hash to contains shell hash	
B-1132	87.0 – 92.0	Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)	
B-1134	67.0 – 86.75	Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)	
B-1139	5.5 – 8.0	Revised classification from GRAVEL, silty (GM) to SAND, silty (SM)	
B-1139	61.75 – 67.0	Revised classification from GRAVEL, silty (GM) to SHELL HASH, silty (GM)	
B-1139	87.0 – 92.0	Revised classification from GRAVEL, silty (GM) to SHELL HASH, silty (GM)	
B-1146	53.5 – 57.0	Revised classification from CLAY, silty, gravelly with sand (CL-ML) to CLAY, silty (CL-ML)	
B-1146	82.0 - 87.0	Revised classification from SAND, clayey with gravel (SC) to SAND, clayey (SC)	
B-1146	87.0 – 92.0	Revised classification from CLAY, with gravel (CH) to CLAY (CH)	
B-1148	68.5	Removed Transition from Utley to Blue Bluff Marl (BBM) reference	
B-1150	37.0 - 47.0	Revised classification from SILT, gravelly (ML) and SILT, with gravel (ML) to SILT, shell hashy (ML)	
B-1150	87.0 – 91.5	Revised classification from CLAY, gravelly (CL) to CLAY, with shell hash (CL)	
B-1152	47.0	Added contains cemented shell fragments	
B-1152	52.0 - 62.0	Revised classification from SAND, with silt (SP-SM) and CLAY, sandy (CL) to SAND, silty (SM)	
B-1152	67.0 – 69.5	Revised classification from SAND, silty (SM) - Greenish gray (GLEY1 6/1), damp, dense, +HCL to SAND, silty (SM) - Greenish gray (GLEY1 6/1), damp, dense, contains shell fragments, +HCL	
B-1153	37.0 – 47.0	Revised classification from SAND, clayey (SC) to CLAY, sandy (CL)	
B-1153	51.0 - 62.0	Revised classification from SAND, silty (SM) - Very dark gray (2.5YR 3/N), damp, dense, fine grained, -HCL to SAND, silty (SN - Very dark gray (2.5YR 3/N), damp, dense, fine grained, contains cemented fragments, -HCL	
B-1153	62.0 – 77.0	Revised classification from SAND, silty, clayey (SC-SM) - Very dark gray (5Y 3/1), moist, very dense, fine grained, -HCL to SAND, silty, clayey (SC-SM) - Very dark gray (5Y 3/1), moist, very dense, fine grained, contains shell hash, -HCL	
B-1153	68.5	Revised classification from SAA except dark grey (5Y 4/1), damp very stiff, low plasticity to SAA except dark grey (5Y 4/1), damp, very stiff, low plasticity, contains shells	
B-1155	9.75 – 17.0	Revised classification from SILT, with sand (ML) to CLAY, with sand (CL)	

Boring Depth or Change		Change	
Number	Depth Interval (feet)	5	
B-1155	32.0 – 36.5	Revised classification from CLAY, with silt (CL) to SILT (MH	
B-1155	86.5 – 91.5	Revised classification from CLAY (CL) to CLAY (CH)	
B-1155	107.0 – 132.0	Revised classification from SAND, with silt (SP-SM) to SANI (SP)	
B-1156	17.75 – 22.0	Revised classification from CLAY, sandy (CL) to CLAY, sand (CH)	
B-1157	17.0 - 22.0	Revised classification from SILT (ML) to SILT (MH)	
B-1157	31.5 - 37.0	Revised classification from SILT (ML) to CLAY (CH)	
B-1157	38.5	Revised classification from CLAY (CL) - Greenish gray (GLE 6/1), damp, medium stiff, medium plasticity, contains minor gr up to 1" diameter, +HCL to CLAY (CL) - Greenish gray (GLE 6/1), damp, medium stiff, medium plasticity, contains shell has +HCL	
B-1157	107.0 – 112.0	Revised classification from CLAY, silty with sand (CL-ML) to CLAY, with sand (CL)	
B-1159	2.7 - 17.0	Revised classification from SILT (ML) and CLAY, silty (CL) t CLAY (CH)	
B-1159	17.0 - 27.0	Revised classification from SILT, clayey (ML) to SILT (ML)	
B-1159	36.5 – 41.5	Revised classification from GRAVEL, silty with sand (GM) to LIMESTONE	
B-1159	72.0 - 92.0	Revised classification from SAND, with silt (SP-SM) to SAND with clay (SP-SC)	
B-1161	3.5 - 6.0	Revised classification from CLAY, silty (CL-ML) to SILT (MI	
B-1161	6.0 - 17.0	Revised classification from CLAY, silty (CL-ML) to CLAY (C	
B-1162	0.0 - 6.0	Revised classification from CLAY, silty (CL-ML) to CLAY (C	
B-1162	6.0 - 10.5	Revised classification from CLAY, silty (CL-ML) to SILT (MI	
B-1162	49.5 – 54.5	Revised classification from CLAY, silty with sand (CL-ML) to SAND (SP)	
B-1163	3.25 - 5.5	Revised classification from CLAY (CH) to SILT (MH)	
B-1163	32.0 – 37.0	Revised classification from CLAY, silty, sandy (CL-ML) to CI sandy, (CH)	
B-1163	37.0 – 47.0	Revised classification from CLAY, silty with sand (CL-ML) to CLAY, with sand (CH)	
B-1163	87.0 - 92.0	Revised classification from CLAY, silty (CL-ML) to CLAY (C	
B-1164	62.5 – 68.5	Revised classification from GRAVEL, with clay (GP-GC) to SHELL HASH, with clay (GP-GC)	
B-1164	68.5 – 77.0	Revised classification from contains angular/cemented GRAVI contains angular/cemented nodules	
B-1164	77.0 – 82.0	Revised classification from SAND, with silt and gravel (SP-SM SAND, silty with cemented fragments (SM)	
B-1166	72.0 – 77.0	Revised classification from CLAY, with gravel (CL) to CLAY, with shell hash (CL)	
B-1166	77.0 – 100.0	Revised classification from SILT (ML) - Greenish gray (GLEY 6/10GY), moist, hard, low plasticity, contains traces of angular cemented GRAVEL, +HCL to SILT (ML) - Greenish gray (GL 6/10GY), moist, hard, low plasticity, +HCL	
B-1172	77.0 – 82.0	Revised classification from CLAY, silty, sandy with gravel (ClML) to CLAY, silty (CL-ML)	

B-1174

27.0 – 42.0

Revised classification from CLAY, silty, sandy with gravel (CL-

Log of Revisions to	Geotechnical	Boring Logs
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	Log of Revisions to Geotechnical Boring Logs  Powing Donth or		
Boring	Depth or	Change	
Number	Depth Interval (feet)		
		ML) to CLAY, silty, sandy (CL-ML)	
B-1174	42.0 - 47.0	Revised classification from CLAY, with gravel (CL) to CLAY (CL)	
B-1174	47.0 – 52.0	Revised classification from CLAY, silty, gravelly with sand (CL-	
D-11/4	47.0 – 32.0	ML) to CLAY, silty with sandy (CL-ML)	
B-1174	52.0 - 57.0	Revised classification from GRAVEL, with silt and sand (GP-GM)	
D-11/4	32.0 – 37.0	to SHELL HASH, with silt and sand (GP-GM)	
B-1174	57.0 – 62.0	Revised classification from CLAY, silty, gravelly with sand (CL-	
D-11/4	37.0 - 02.0	ML) to CLAY, silty with sand (CL-ML)	
B-1174	62.0 - 67.0	Revised classification from CLAY, sandy with gravel (CL) to	
D 1174	02.0 07.0	CLAY, sandy (CL)	
B-1174	67.0 - 72.0	Revised classification from GRAVEL, with clay and sand (GP-GC)	
	07.0 72.0	to SHELL HASH, with clay and sand (GP-GC)	
B-1174	72.0 - 77.0	Revised classification from SAND, clayey with gravel (SC) to	
	72.0 77.0	SAND, clayey (SC)	
B-1174	77.0 - 82.0	Revised classification from CLAY, gravelly with sand (CL) to	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CLAY, with sand (CL)	
B-1174	87.0 - 92.0	Revised classification from CLAY, sandy with gravel (CL) to	
		CLAY, sandy (CL)	
B-1176	19.5 – 22.0	Revised classification from CLAY, with gravel (CL) to CLAY (CL)	
B-1176A	35.0 - 52.0	Revised classification from GRAVEL, silty, clayey with sand (GC-	
		GM) to SHELL HASH, silty clayey with sand (GC-GM)	
B-1185	53.5 – 62.0	Revised classification from CLAY, gravelly (CL) to CLAY (CL)	
B-1185	62.0 - 72.0	Revised classification from SAND, clayey with gravel (SC) to	
D 1105	92.0 02.0	SAND, clayey (SC)  Revised classification from CLAY with group (CL) to CLAY (CL)	
B-1185	83.0 – 92.0	Revised classification from CLAY, with gravel (CL) to CLAY (CL)	
B-3001	74.5 - 77.0	Revised classification from GRAVEL, silty (GM) to SHELL	
		HASH, silty (GM) Revised classification from CLAY, with gravel (CL) to CLAY,	
B-3001	97.0 - 112.0	with shell hash and cemented fragments (CL)	
B-3001	112.0 – 122.0	Revised classification from CLAY (CH) to SILT, sandy (MH)	
B-3001	$\frac{112.0 - 122.0}{122.0 - 127.0}$	Revised classification from CLAY, with gravel (CL) to CLAY (CL)	
_		Revised classification from CLAY, with gravel (CL) to CLAY,	
B-3001	132.0 - 137.0	with shells (CL)	
-		Revised classification from SAA except contains angular GRAVEL	
B-3001	148.5 - 153.5	and SAA except stiff, no GRAVEL to SAA except contains shells	
2 2001	1.0.0 103.0	and SAA except stiff	
		Revised classification from contains kaolinitic CLAY to contains	
B-3001	228.5	CLAY	
D 2001	250.5	Revised classification from contains iron staining, kaolinitic CLAY,	
B-3001	358.5	and mica to contains iron staining and mica	
D 2001	264.0 274.0	Revised classification from contains CLAY lenses, mica, and	
B-3001	364.0 - 374.0	kaolinitic CLAY to contains CLAY lenses and mica	
B-3001	374.0 – 394.0	Revised classification from contains iron staining and kaolinitic	
D-3001	314.0 - 394.0	CLAY to contains iron staining	
B-3001	394.0 – 400.5	Revised classification from contains kaolinitic CLAY matrix and	
D-2001	377.U - 700.J	mica to contains CLAY matrix and mica	
B-3002	112.0 – 122.0	Revised classification from SAND, clayey (SC) to SAND, silty	
		(SM)	
B-3002	122.0 - 137.0	Revised classification from SAND, clayey (SC) to SILT (MH)	

Boring Number	Depth or Depth Interval (feet)	Change	
B-3003	66.5	Moved Utley reference to 77.0ft	
		Revised classification from GRAVEL, silty (GM) to SHELL	
B-3003	77.0 – 88.5	HASH, silty (GM)	
B-3003	112.0 – 117.0	Revised classification from GRAVEL, clayey with sand (GC) to CLAY, with cemented layers (CL)	
B-3003	117.0 - 147.0	Revised classification from CLAY, with sand (CL) to CLAY (CL)	
B-3004	93.5	Revised classification from contains cemented marl to contains cemented fragments	
B-3004	107.0 - 109.0	Revised classification from GRAVEL, with clay (GP-GC) to SILT (MH)	
B-3004	153.5	Revised classification from contains trace angular cemented marl to contains trace angular cemented fragments	
B-3005	137.0 – 150.5	Revised classification from CLAY, silty (CL-ML) to CLAY (CH)	
B-3006	142.0 – 147.0	Revised classification from GRAVEL, clayey with sand (GC) to CLAY (CL)	
B-3006	147.0 – 152.0	Revised classification from SAA except contains shell fragments to CLAY, with sand (CH) – Greenish grey (GLEY1 6/10Y), dry to damp, very stiff, contains shell fragments and sandy and cemented layers	
B-3007	58.0	Moved Utley reference to 78.0ft	
B-3007	62.0 - 66.0	Revised classification from CLAY, silty, sandy with gravel (CL-ML) to CLAY, silty, sandy (CL-ML)	
B-3007	78.0 – 82.0	Revised classification from contains shell fragments < 0.1" in diameter to contains pebble size shell fragments	
B-3007	118.5	Removed non-plastic to low plasticity	
B-3007	127.0 – 147.0	Revised classification from SILT, with sand (ML) to SILT (ML)	
B-3007	147.0 – 157.5	Revised classification from CLAY, silty with sand (CL-ML) to CLAY, silty (CL-ML)	
B-3008	32.0 – 47.0	Revised classification from SAND, silty, clayey (SC-SM) to SAND, clayey (SC)	
B-3008	122.0 - 152.0	Revised classification from SILT (MH) to CLAY (CH)	
B-3009	63.5 – 67.0	Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)	
B-3009	77.0 – 82.0	Revised classification from GRAVEL, silty (GM) to SHELL HASH, silty (GM)	
B-3010	82.0 – 86.0	Revised classification from GRAVEL, with clay (GP-GC) to SHELL HASH, with clay (GP-GC)	
B-3010	86.0 – 92.0	Revised classification from GRAVEL, with clay (GP-GC) to CEMENTED FRAGMENTS, with clay (GP-GC)	
B-3010	117.0 – 127.0	Revised classification from CLAY, sandy (CL) to CLAY, with cemented fragments (CL)	
B-3010	127.0 – 142.0	Revised classification from contains angular GRAVEL to contains cemented fragments	
B-3011	79.5 – 87.0	Revised classification from GRAVEL, silty (GM) to SHELL HASH, silty (GM)	
B-3011	87.0 – 92.0	Revised classification from CLAY, with gravel (CL) to CLAY, with shell hash (CL)	
B-3011	102.0 - 107.0	Revised classification from CLAY, with sand (CL) to CLAY, silty (CL)	

Log of Revisions	to Geotechnical	<b>Boring Logs</b>
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Boring	Boring Depth or Change	
Number	Depth Interval (feet)	Change
	-	
B-3011	108.5	Revised classification from contains traces of shell hash to contains traces of shells
B-3013 (C)	92.0 - 95.5	Revised classification from SAND, clayey (SC) to CEMENTED FRAGMENTS, clayey (SC)
B-3013 (C)	118.0 – 121.0	Revised classification from GRAVEL (GP) to LIMESTONE (GP)
B-3013 (C)	121.0	Revised classification from contains GRAVEL cemented seam in bottom to contains cemented seam in bottom
B-3014	81.0 - 88.0	Revised classification from GRAVEL (GP) to SHELL HASH (GP)
B-3014	92.0 – 102.0	Revised classification from CLAY, with gravel (CL) to CLAY, with shell hash (CL)
B-3015	120.0 - 149.0	Revised classification from CLAY, silty (CL-ML) to CLAY (CH)
B-3017	83.5 – 86.0	Revised classification from GRAVEL, with clay (GP-GC) to SHELL HASH, with clay (GP-GC)
B-3018	52.0	Moved Utley reference to 77.0ft
B-3018	72.0 – 77.0	Revised classification from CLAY, silty with gravel (CL-ML) to CLAY, silty (CL-ML)
B-3018	77.0 – 82.0	Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)
B-3018	132.0 – 152.0	Revised classification from CLAY, silty with sand (CL-ML) to CLAY, with sand (CL)
B-3019	77.0 – 86.75	Revised classification from GRAVEL, silty (GM) to SHELL HASH, silty (GM)
B-3019	102.0 - 107.0	Revised classification from GRAVEL (GM) to LIMESTONE
B-3019	112.0 – 122.0	Revised classification from GRAVEL, silty (GM) to LIMESTONE
B-3021	77.0 - 86.0	Revised classification from GRAVEL, silty, clayey (GC-GM) to SHELL HASH, silty, clayey (GC-GM)
B-3022	81.5, 87.0	Removed Utley reference, added reference to BBM at 87ft
B-3023	83.5 - 86.0	Revised classification from GRAVEL, with clay (GP-GC) to SHELL HASH, with clay (GP-GC)
B-3024	82.0 - 150.0	Revised classification from CLAY, silty (CL-ML) to CLAY (CH)
B-3026	112.0 – 149.17	Revised classification from SILT, with sand (ML) to SILT (ML)
B-3027	13.5	Revised classification from GRAVEL, with silt and sand (GP-GM) to NO RECOVERY
B-3027	67.0 - 72.0	Revised classification from CLAY, silty, sandy with gravel (CL-ML) to CLAY, silty (CL-ML)
B-3027	72.0 – 77.0	Revised classification from SAND, clayey with gravel (SC) to SAND, clayey (SC)
B-3028	67.0 – 77.0	Revised classification from GRAVEL, silty, clayey with sand (GC-GM) to SHELL HASH, silty, clayey with sand (GC-GM)
B-3029	83.0 – 87.0	Revised classification from GRAVEL, silty, clayey with sand (GC-GM) to SHELL HASH, silty, clayey with sand (GC-GM)
B-3029	102.0 – 122.0	Revised classification from CLAY, silty with gravel (CL-ML) and CLAY, silty with sand (CL-ML) to CLAY, silty (CL-ML)
B-3029	122.0 – 127.0	Revised classification from CLAY, with sand (CL) to CLAY (CL)
B-3029	127.0 – 132.0	Revised classification from CLAY, silty, sandy (CL-ML) to CLAY, silty (CL-ML)
B-3029	132.0 – 137.0	Revised classification from CLAY, silty, sandy with gravel (CL-ML) to CLAY, silty, sandy with cemented fragments (CL-ML)
B-3030	87.0 – 92.0	Revised classification from GRAVEL, with clay and sand (GP-GC)

Boring Number	Depth or Depth Interval (feet)	Change	
		to SHELL HASH, with clay and sand (GP-GC)	
B-3031	5.0 - 22.0	Revised classification from SAND, with silt and gravel (SP-SM) SAND, with silt (SP-SM)	
B-3031	95.0 - 97.0	Revised classification from GRAVEL, silty with sand (GM) to SHELL HASH, silty with sand (GM)	
B-3031	104.0 - 117.0	Revised classification from SILT, sandy (ML) to SILT (ML)	
B-3031	117.0 – 122.0	Revised classification from CLAY, silty with gravel (CL-ML) to CLAY (CL)	
B-3031	142.0 – 147.0	Revised classification from CLAY, silty, sandy with gravel (CL-ML) to CLAY, silty, sandy (CL-ML)	
B-3032	76.5	Removed Utley reference	
B-3033	137.0 – 142.0	Revised classification from CLAY, silty with sand (CL-ML) to CLAY, silty (CL-ML)	
B-3034	127.0 - 132.0	Added missing graphic	
B-3034	138.5	Revised classification from SAND, clayey (SC) - Dark greenish gray (5GY 4/1), moist, very dense, very fine to fine grained, contains cemented shell fragments, +HCL to CLAY, with cemer fragments (CL) - Dark greenish gray (5GY 4/1), moist, hard, +H	
B-3034	143.5	Revised classification from contains abundant cemented shell fragments to contains cemented fragments	
B-3035	78.0 – 82.0	Revised classification from SAND, clayey with gravel (SC) to SAND, clayey (SC)	
B-3035	98.0 – 107.0	Revised classification from contains shell hash and organics to contains trace shell hash and organics	
B-3036	77.0 – 82.0	Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)	
B-3036	88.0 – 97.0	Revised classification from SAND, silty (SM) to SILT, with cemented fragments (ML)	
B-3037	83.0 – 87.0	Revised classification from CLAY, silty, gravelly with sand (CLML) to CLAY, silty with sand (CL-ML)	
B-3037	106.75 – 111.75	Revised classification from CLAY, silty with sand (CL-ML) to CLAY, silty (CL-ML)	
B-3037	111.75 – 116.75	Revised classification from CLAY, sandy (CL) to CLAY (CL)	
B-3038	66.5 - 72.0	Revised classification from CLAY, gravelly (CL) to CLAY (CL	
B-3038	87.0 – 92.0	Revised classification from GRAVEL, clayey with sand (GC) to SHELL HASH, clayey with sand (GC)	
B-3039	56.5	Removed Utley reference	
B-3039	132.0 – 147.0	Revised classification from CLAY (CL) to CLAY, silty, sandy, with cemented fragments (CL-ML)	
B-4001 (DH)	22.0 – 27.0	Revised classification from CLAY, silty with sand (CL-ML) to SILT, with sand (MH)	
B-4001 (DH)	122.0 - 132.0	Revised classification from SAND, silty (SM) to CLAY (CH)	
B-4002	82.0	Added Utley reference	

CLAY, silty (CL-ML)

CLAY, silty (CL-ML)

HASH, with silt (SW-SM)

B-4003 (DH)

B-4003 (DH)

B-4004

92.0 - 97.0

152.0 - 166.0

87.5 - 91.0

Revised classification from CLAY, silty with sand (CL-ML) to

Revised classification from CLAY, silty with sand (CL-ML) to

Revised classification from SAND, with silt (SW-SM) to SHELL

B-4004	Log of Revisions to Geotechnical Boring Logs			
B-4004			Change	
B-4004		• • • • • • • • • • • • • • • • • • • •		
B-4005	B-4004	91.0 – 102.0	Revised classification from SILT, with sand (MH) to SILT, with sand (MH)	
B-4005	B-4004	117.0 – 132.0	Revised classification from SILT, with sand (MH) to SILT, sandy (MH)	
B-4008   122.0 - 152.0   Revised classification from CLAY (MH) to SILT (MH)	B-4005	127.0 – 142.0	Revised classification from SILT, (MH) - Greenish gray (GLEY1 6/10Y), damp, hard, high plasticity, contains shell fragments, +HCL to SILT (MH) - Greenish gray (GLEY 1 6/10Y), damp, hard, high plasticity, +HCL	
B-4009   112.0 - 122.0   Revised classification from SILT, with sand (MH) to SILT (MF B-4010   132.0 - 157.0   Revised classification from CLAY, sandy (CH) to CLAY (CH) B-4013 (C)   85.5 - 94.0   Revised classification from CLAY, sandy (CH) to CLAY (CH) B-4013 (C)   85.5 - 94.0   Revised classification from CLAY, silty with sand (CL-ML) to CLAY, silty (CL-ML)   Revised classification from CLAY, silty with sand (CL-ML) to CLAY, silty (CL-ML)   Revised classification from SAND, silty, clayey (SC-SM) to SAND, clayey (SC)   Revised classification from SAND, with clay and gravel (SP-SC SAND, with clay (SP-SC)   Revised classification from GRAVEL, silty, clayey with sand (GM) to SHELL HASH, silty, clayey with sand (GC-GM)   Revised classification from SILT, sandy (MH) to SILT (MH)   Revised classification from GRAVEL, with clay (GP-GC) to SHELL HASH, with clay (GP-GC)   Revised classification from GRAVEL, with clay (GP-GC) to SHELL HASH, with clay (GP-GC)   Revised classification from GRAVEL, with clay (GP-GC)   Revised classification from GRAVEL, silty, clayey with sand (GC-GM)   Revised classification from GRAVEL, silty, clayey with sand (GC-GM)   Revised classification from GRAVEL, silty, clayey with sand (GC-GM)   Revised classification from GRAVEL, silty, clayey with sand (GC-GM)   Revised classification from GRAVEL, silty, clayey with sand (GC-GM)   Revised classification from CLAY, with gravel (CL) to CLAY, with shell fragments (CL)   Revised classification from CLAY, with gravel (CL) to CLAY, with shell fragments (CL)   Revised classification from CLAY, with gravel (CL) to CLAY, with shell fragments (CL)   Revised classification from GRAVEL, clayey (GC)   Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)   Revised classification from GRAVEL, clayey with sand (GC)   Revised classification from GRAVEL, claye	B-4005	144.0	Revised classification from SAA to SAA with shell fragments	
B-4009         132.0 – 157.0         Revised classification from CLAY, sandy (CH) to CLAY (CH)           B-4010         127.0 – 157.0         Revised classification from CLAY, sandy (CH) to CLAY (CH)           B-4013 (C)         85.5 – 94.0         Revised classification from CLAY, silty with sand (CL-ML) to CLAY, silty (CL-ML)           B-4014         17.0 – 22.0         Revised classification from SAND, silty, clayey (SC-SM) to SAND, clayey (SC)           B-4014         72.0 – 77.0         Revised classification from SAND, with clay and gravel (SP-SC SAND, with clay (SP-SC)           B-4014         82.0 – 87.2         Gevised classification from GRAVEL, silty, clayey with sand (GC-GM)           B-4014         87.2 – 107.0         Revised classification from SILT, sandy (MH) to SILT (MH)           B-4015         107.0 – 122.0         Revised classification from CLAY, with sand (CL) to CLAY (CLAY)           B-4018         82.0 – 86.5         Revised classification from CLAY, with sand (CL) to CLAY (CLAY)           B-4019         72.0 – 77.0         Revised classification from CLAY, with sand (CL) to CLAY, (CLAY)           B-4019         82.0 – 87.0         Revised classification from CLAY, silty, sandy with gravel (CLAY) (CLAY)           B-4019         82.0 – 87.0         Revised classification from CLAY, silty, sandy (CL-ML)           B-4019         82.0 – 87.0         Revised classification from CLAY, silty, sandy (CL-ML)	B-4008	122.0 - 152.0	Revised classification from CLAY (MH) to SILT (MH)	
B-4010   127.0 - 157.0   Revised classification from CLAY, sandy (CH) to CLAY (CH)	B-4009	112.0 - 122.0	Revised classification from SILT, with sand (MH) to SILT (MH)	
B-4013 (C)  B-4014  B-4015  B-4015  B-4018  B-4018  B-4019  B-4019  B-4019  B-4019  B-4020  B-4020  B-4020  B-4020  B-4020  B-4026  B-4027  B-4028  B-4026  B-	B-4009	132.0 - 157.0	Revised classification from CLAY, sandy (CH) to CLAY (CH)	
B-4014   17.0 - 22.0   Revised classification from SAND, silty, clayey (SC-SM) to SAND, clayey (SC)	B-4010	127.0 - 157.0		
B-4014   72.0 - 77.0   Revised classification from SAND, with clay and gravel (SP-SC SAND, with clay (SP-SC)   Revised classification from GRAVEL, silty, clayey with sand (GM) to SHELL HASH, silty, clayey with sand (GC-GM)   B-4014   87.2 - 107.0   Revised classification from SILT, sandy (MH) to SILT (MH)   B-4015   107.0 - 122.0   Revised classification from CLAY, with sand (CL) to CLAY (C B-4018   82.0 - 86.5   Revised classification from GRAVEL, with clay (GP-GC) to SHELL HASH, with clay (GP-GC) to SHELL HASH, with clay (GP-GC)   Revised classification from CLAY, silty, sandy with gravel (CL ML) to CLAY, silty, sandy with gravel (CL ML) to CLAY, silty, sandy (CL-ML)   B-4019   82.0 - 87.0   Revised classification from GRAVEL, silty, clayey with sand (GM) to SHELL HASH, silty, clayey with sand (GC-GM)   B-4020   87.0 - 87.0   Revised classification from CLAY, with gravel (CL) to CLAY, with shell fragments (CL)   Revised classification from CLAY, with gravel (CL) to CLAY, with shell fragments (CL)   Revised classification from GRAVEL, silty (GM) to SHELL HASH, silty (GM)   Revised classification from CLAY, with gravel (CL) to CLAY, with shell fragments (CL)   Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)   Revised classification from SAND, with gravel (SP) to SAND (Revised classification from SAND, with clay and gravel (SP-SC)   Revised classification from GRAVEL, clayey with sand (GC) to CLAY, sandy (CL)   Revised classification from GRAVEL, clayey with sand (GC)   Revised classification from GRAVEL, clayey	B-4013 (C)	85.5 – 94.0	CLAY, silty (CL-ML)	
B-4014 82.0 – 87.2 Revised classification from GRAVEL, silty, clayey with sand (G-GM) to SHELL HASH, silty, clayer with sand (G-GM) to SHELL HASH, with clay (GP-GC) to SHELL HASH, silty, sandy (CL-ML) to CLAY (GM) to SHELL HASH, silty, sandy (CL-ML) to CLAY, with shell fragments (CL) to CLAY, with clay (SP-SC) to SHELL thash, clayery (GC) to SHELL thash, clayery (GC) to SHELL thash, clayery with sand (GC)	B-4014	17.0 - 22.0	SAND, clayey (SC)	
B-4014 87.2 – 107.0 Revised classification from SILT, sandy (MH) to SILT (MH) B-4015 107.0 – 122.0 Revised classification from SILT, sandy (MH) to SILT (MH) B-4018 82.0 – 86.5 Revised classification from CLAY, with sand (CL) to CLAY (CREVISED CLASSIFICATION FROM THE PROPERTY OF THE PRO	B-4014	72.0 - 77.0	Revised classification from SAND, with clay and gravel (SP-SC) to SAND, with clay (SP-SC)	
B-4015 107.0 – 122.0 Revised classification from CLAY, with sand (CL) to CLAY (C B-4018 82.0 – 86.5 Revised classification from GRAVEL, with clay (GP-GC) to SHELL HASH, with clay (GP-GC) Revised classification from CLAY, silty, sandy with gravel (CL ML) to CLAY, silty, sandy with gravel (CL ML) to CLAY, silty, sandy with sand (GC-GM) Revised classification from GRAVEL, silty, clayey with sand (GC-GM) B-4020 77.0 – 87.0 Revised classification from CLAY, with gravel (CL) to CLAY (CLAY) Revised classification from CLAY, with gravel (CL) to CLAY, with shell fragments (CL) (CLAY) (	B-4014	82.0 – 87.2	Revised classification from GRAVEL, silty, clayey with sand (GC-GM) to SHELL HASH, silty, clayey with sand (GC-GM)	
B-4018 82.0 – 86.5 Revised classification from GRAVEL, with clay (GP-GC) to SHELL HASH, with clay (GP-GC)  B-4019 72.0 – 77.0 Revised classification from CLAY, silty, sandy with gravel (CLML)  B-4019 82.0 – 87.0 Revised classification from GRAVEL, silty, clayey with sand (GM) to SHELL HASH, silty, clayey with sand (GC-GM)  B-4020 87.0 – 87.0 Revised classification from CLAY, with gravel (CL) to CLAY (MI)  B-4020 87.0 – 89.42 Revised classification from CLAY, with gravel (CL) to CLAY (MI)  B-4025 62.0 – 67.0 Revised classification from GRAVEL, silty (GM) to SHELL HASH, silty (GM)  B-4025 67.0 – 72.0 Revised classification from CLAY, with gravel (CL) to CLAY (MI)  B-4025 87.0 – 91.75 Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)  B-4026 10.5 – 13.0 Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)  B-4026 22.0 – 27.0 Revised classification from SAND, with gravel (SP) to SAND (MI)  B-4026 85.0 – 91.0 Revised classification from CLAY, sandy with gravel (CL) to CLAY, sandy (CL)  B-4026 91.0 – 97.0 Revised classification from GRAVEL, clayey with sand (GC) to SHELL HASH, clayey with sand (GC)  Revised classification from GRAVEL, clayey with sand (GC) Revised classification from GRAVEL, clayey with sand (GC)  Revised classification from GRAVEL, clayey with sand (GC)  Revised classification from GRAVEL, clayey with sand (GC)  Revised classification from GRAVEL, silty, clayey with sand (GC)	B-4014	87.2 – 107.0	Revised classification from SILT, sandy (MH) to SILT (MH)	
B-4019  B-4019  T2.0 - 77.0  Revised classification from CLAY, silty, sandy with gravel (CL ML) to CLAY, silty, sandy (CL-ML)  B-4019  B-4019  B-4019  B-4020  T7.0 - 87.0  Revised classification from GRAVEL, silty, clayey with sand (GC-GM)  B-4020  Revised classification from CLAY, with gravel (CL) to CLAY (ML) to SHELL HASH, silty, clayey with sand (GC-GM)  B-4020  B-4020  B-4020  B-4025  B-4025  B-4025  B-4026  B-402	B-4015	107.0 - 122.0	Revised classification from CLAY, with sand (CL) to CLAY (CL)	
B-4019  B-4019  B-4019  B-4020  B-4026  B-4026	B-4018	82.0 – 86.5		
B-4019 82.0 – 87.0 Revised classification from GRAVEL, silty, clayey with sand (GGM) to SHELL HASH, silty, clayey with sand (GC-GM)  B-4020 87.0 – 87.0 Revised classification from CLAY, with gravel (CL) to CLAY with shell fragments (CL)  B-4025 62.0 – 67.0 Revised classification from GRAVEL, silty (GM) to SHELL HASH, silty (GM)  B-4025 67.0 – 72.0 Revised classification from GRAVEL, silty (GM) to SHELL HASH, silty (GM)  B-4025 87.0 – 91.75 Revised classification from CLAY, with gravel (CL) to CLAY, with shell fragments (CL)  B-4026 10.5 – 13.0 Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)  B-4026 22.0 – 27.0 Revised classification from SAND, with gravel (SP) to SAND (Revised classification from SAND, with clay and gravel (SP-SC)  B-4026 85.0 – 91.0 Revised classification from CLAY, sandy with gravel (CL) to CLAY, sandy (CL)  B-4026 91.0 – 97.0 Revised classification from GRAVEL, clayey with sand (GC) to SHELL HASH, clayey with sand (GC)  Revised classification from GRAVEL, silty, clayey with sand (GC)  Revised classification from GRAVEL, silty, clayey with sand (GC)  Revised classification from GRAVEL, silty, clayey with sand (GC)  Revised classification from GRAVEL, silty, clayey with sand (GC)	B-4019	72.0 - 77.0	Revised classification from CLAY, silty, sandy with gravel (CL-ML) to CLAY, silty, sandy (CL-ML)	
B-4020 77.0 – 87.0 Revised classification from CLAY, with gravel (CL) to CLAY (Provided Provided Provi	B-4019	82.0 – 87.0	Revised classification from GRAVEL, silty, clayey with sand (GC-	
B-4025 62.0 – 67.0 Revised classification from GRAVEL, silty (GM) to SHELL HASH, silty (GM)  B-4025 67.0 – 72.0 Revised classification from CLAY, with gravel (CL) to CLAY, with shell fragments (CL)  B-4025 87.0 – 91.75 Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)  B-4026 10.5 – 13.0 Revised classification from SAND, with gravel (SP) to SAND (SAND, with clay and gravel (SP-SC)  B-4026 85.0 – 91.0 Revised classification from CLAY, sandy with gravel (CL) to CLAY, sandy (CL)  B-4026 91.0 – 97.0 Revised classification from GRAVEL, clayey with sand (GC) to SHELL HASH, clayey with sand (GC)  Revised classification from GRAVEL, clayey with sand (GC)  Revised classification from GRAVEL, clayey with sand (GC)  Revised classification from GRAVEL, silty, clayey with sand (GC)	B-4020	77.0 - 87.0	Revised classification from CLAY, with gravel (CL) to CLAY (CL)	
B-4025 B-4025 B-4025 B-4025 B-4026 B-4027 B-4027 B-4027 B-4027 B-4027 B-4027 B-4027 B-4027 B-4028 B-4027 B-4028 B-4027 B-4028 B-4027 B-4028 B-4029 B-4029 B-4029 B-4027 B-4029 B-	B-4020	87.0 – 89.42	Revised classification from CLAY, with gravel (CL) to CLAY, with shell fragments (CL)	
B-4025  B-4025  B-4025  B-4026  B-4027  B-4026  Revised classification from GRAVEL, clayey with sand (GC) to SHELL HASH, clayey with sand (GC)  Revised classification from GRAVEL, silty, clayey with sand (GC)  Revised classification from GRAVEL, silty, clayey with sand (GC)	B-4025	62.0 - 67.0		
B-4025  B-4026  B-4027  B-4027  SAND, with clay (CL)  Revised classification from CLAY, sandy with gravel (CL) to CLAY, sandy (CL)  Revised classification from GRAVEL, clayey with sand (GC) to SHELL HASH, clayey with sand (GC)  Revised classification from GRAVEL, silty, clayey with sand (GC)  Revised classification from GRAVEL, silty, clayey with sand (GC)	B-4025	67.0 – 72.0	Revised classification from CLAY, with gravel (CL) to CLAY,	
B-4026  B-4027  SAND, with clay (SP-SC)  Revised classification from CLAY, sandy with gravel (CL) to CLAY, sandy (CL)  Revised classification from GRAVEL, clayey with sand (GC) to SHELL HASH, clayey with sand (GC)  Revised classification from GRAVEL, silty, clayey with sand (GC)  Revised classification from GRAVEL, silty, clayey with sand (GC)	B-4025	87.0 – 91.75	Revised classification from GRAVEL, clayey (GC) to SHELL	
B-4026  B-4026  B-4026  B-4026  B-4026  B-4026  B-4026  B-4027  B-4027  Revised classification from SAND, with clay and gravel (SP-SC SAND, with clay (SP-SC)  Revised classification from CLAY, sandy with gravel (CL) to CLAY, sandy (CL)  Revised classification from GRAVEL, clayey with sand (GC) to SHELL HASH, clayey with sand (GC)  Revised classification from GRAVEL, silty, clayey with sand (GC)	B-4026	10.5 – 13.0		
B-4026  B-4026  B-4026  B-4026  B-4027  B-4027  B-4026  B-4027  B-4027  B-4026  B-4027  B-4027  B-4027  B-4027  B-4026  B-4027  B-4028  B-4027  B-4028  B-4027  B-4028  B-4027  B-4028  B-4027  B-4028  B-4027  B-4028  B-4028			Revised classification from SAND, with clay and gravel (SP-SC) to	
B-4026  B-4027  B-4027	B-4026	85.0 – 91.0	Revised classification from CLAY, sandy with gravel (CL) to	
Revised classification from GRAVEL, silty, clayey with sand (0	B-4026	91.0 – 97.0	Revised classification from GRAVEL, clayey with sand (GC) to	
GIVI) IO STIELL HASH, SHLY, CIAYEY WITH SAND (GC-GM)	B-4027	52.0 - 67.0	Revised classification from GRAVEL, silty, clayey with sand (GC-GM) to SHELL HASH, silty, clayey with sand (GC-GM)	
	B-4027	77.0 – 82.0	Revised classification from GRAVEL, with clay and sand (GP-GC)	

Log of R	evisions to	Centechnical	Boring Logs
- L02 01 K	evisions to	(teotecnnicai	Boring Logs

Davina	Log of Revisions to Geotechnical Boring Logs		
Boring Number	Depth or Depth Interval (feet)	Change	
Number	Depth Interval (leet)		
		D : 11 'C : 0 GAND 'L 1 'H 1/00	
B-4028	74.5 - 77.0	Revised classification from SAND, silty, clayey with gravel (SC-SN)	
		SM) to SAND, silty, clayey (SC-SM)	
B-4028	82.0 - 87.0	Revised classification from CLAY, silty, gravelly with sand (CL-MI)	
		ML) to CLAY, silty with sand (CL-ML) Revised classification from CLAY, silty, gravelly (CL-ML) to	
B-4028	117.0 - 122.0	CLAY, silty (CL-ML)	
		Revised classification from CLAY, with sand and gravel (CL) to	
B-4029	71.5 - 77.0	CLAY, with sand (CL)	
B-4029	83.5 – 87.0	Revised classification from CLAY, with gravel (CL) to CLAY (CL)	
		Revised classification from GRAVEL, silty, clayey with sand (GC-	
B-4030	73.0 - 77.0	GM) to SHELL HASH, silty, clayey with sand (GC-GM)	
D 4020	07.5 02.0	Revised classification from CLAY, silty, gravelly (CL-ML) to	
B-4030	87.5 - 92.0	CLAY, silty (CL-ML)	
B-4030	122.0 – 128.5	Revised classification from CLAY, silty with gravel (CL-ML) to	
D-4030	122.0 – 126.3	CLAY, silty (CL-ML)	
		Revised classification from GRAVEL, clayey (GC) to	
B-4031	137.0 - 147.0	LIMESTONE – Greenish gray (GLEY1 5/5GY), lithified marl with	
	22.5	clay, wet, hard, contains shell fragments, +HCL	
B-4032A	93.5	Removed Utley reference	
B-4032A	127.0 - 132.0	Revised classification from CLAY, with gravel (CL) to CLAY,	
		with shell fragments (CL)	
B-4033	77.0 - 87.0	Revised classification from CLAY, silty, gravelly with sand (CL-MI)	
		ML) to CLAY, silty with sand (CL-ML)	
B-4034	22.0 - 27.0	Revised classification from SAND, with silt and gravel (SP-SM) to	
		SAND, with silt (SP-SM) Revised classification from GRAVEL, clayey (GC) to SHELL	
B-4034	76.75 - 82.0	HASH, clayey (GC)	
		Revised classification from GRAVEL, silty (GM) to SHELL	
B-4034	82.0 - 87.0	HASH, silty (GM)	
D 4024	107.0 142.0	Revised classification from SILT, gravelly with sand (MH) to SILT,	
B-4034	107.0 - 142.0	with shell hash and sand (MH)	
D 4024	142.0 150.0	Revised classification from CLAY, silty (CL-ML) to CLAY, sandy	
B-4034	142.0 - 150.0	(CL)	
B-4035	57.0 – 67.0	Revised classification from CLAY, with gravel and sand (CL) to	
D-4033	37.0 - 07.0	CLAY, with sand (CL)	
B-4035	117.0 - 122.0	Revised classification from CLAY, silty with gravel (CL-ML) to	
		CLAY, silty (CL-ML)	
B-4036	152.0 – 157.0	Revised classification from SILT, with sand (ML) to SILT (ML)	
B-4036	157.0 – 166.0	Revised classification from CLAY, with sand (CL) to CLAY (CL)	
B-5001	27.0 - 32.0	Revised classification from CLAY, silty, sandy with gravel (CL-ML) to CLAY silty and (CL-ML)	
-		ML) to CLAY, silty, sandy (CL-ML)  Revised classification from CLAY, silty, sandy with gravel (CL-	
B-5001	42.0 - 47.0	, ,, ,	
_		ML) to CLAY, silty (CL-ML)  Revised classification from SAND, silty, clayey with gravel (SC-	
B-5001	47.0 - 52.0	SM) to SAND, silty, clayey (SC-SM)	
-		Revised classification from CLAY, silty, sandy, gravelly (CL-ML)	
B-5001	57.0 - 62.0	to CLAY, silty, sandy (CL-ML)	
	(2.0 (7.0	Revised classification from CLAY, silty, sandy with gravel (CL-	
B-5001	62.0 - 67.0	ML) to CLAY, silty, sandy (CL-ML)	
B-5001	67.0 – 72.0	Revised classification from SAND, with clay and gravel (SP-SC) to	
		y	

Log of Revisions to Geotechnical Boring Logs

Boring Number	Depth or Depth Interval (feet)	Change
		SAND, with clay (SP-SC)
B-5001	97.0 – 102.0	Revised classification from CLAY, silty, sandy with gravel (CL-ML) to CLAY, silty, sandy with shells (CL-ML)
B-5003	117.0 – 148.7	Revised classification from CLAY, silty with sand (CL-ML) to CLAY, silty (CL-ML)
B-5004	47.0 – 52.0	Revised classification from GRAVEL, with clay and sand (GP-GC) to SHELL HASH, with clay and sand (GP-GC)
B-5004	62.0 - 87.0	Revised classification from GRAVEL, sandy with clay (GP-GC) to SHELL HASH, sandy with clay (GP-GC)
B-6002	72.0 - 77.0	Revised classification from GRAVEL (GP) to SHELL HASH (GP)
B-6009	31.0 – 37.0	Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)
B-6009	37.0 – 47.0	Revised classification from SILT, with gravel (ML) to SILT (ML)
B-6009	47.0 – 52.0	Revised classification from CLAY, silty, gravelly (CL-ML) to CLAY, silty (CL-ML)
B-6009	52.0 - 57.0	Revised classification from SAND, silty with gravel (SM) to SAND, silty (SM)
B-6009	57.0 - 62.0	Revised classification from SAND, clayey with gravel (SC) to SAND, clayey (SC)
B-6009	62.0 - 72.0	Revised classification from CLAY, gravelly (CL) to CLAY (CL)
B-6009	72.0 – 77.0	Revised classification from CLAY, with gravel (CL) to CLAY (CL)
B-6009	92.0 - 97.0	Revised classification from GRAVEL (GP) to SHELL HASH (GP)
B-6010	117.0	Added Utley reference
B-6011	37.0 - 42.0	Revised classification from GRAVEL, clayey (GC) to SHELL HASH, clayey (GC)
B-6011	42.0 - 47.0	Revised classification from CLAY, gravelly (CL) to CLAY (CL)
B-6011	67.0 - 72.0	Revised classification from GRAVEL, with clay (GP-GC) to SHELL HASH, with clay (GP-GC)
B-6011	72.0 - 92.0	Revised classification from SAND, clayey with gravel (SC) to SAND, clayey (SC)
B-6011	102.0 - 107.0	Revised classification from GRAVEL (GP) to SHELL HASH (GP)
B-6020	10.5 - 17.0	Revised classification from SAND, silty, clayey (SC-SM) to SAND, clayey (SC)
B-6022	79.8	Removed Utley reference
B-6025	47.0	Changed Still Branch reference to BBM
TP-B-1194	8.0 – 11.5	Revised classification from SAND, silty, clayey (SC-SM) to SAND, clayey (SC)

### TABLE B-1 LIST OF BORING AND TEST PIT LOGS

## VOGTLE UNITS 3 & 4 COL PROJECT MACTEC ENGINEERING AND CONSULTING, INC. MACTEC PROJECT No. 6141-06-0286

Boring/Test Pit Number	Location/Remarks	Total Depth (ft, bgs)
B-1105	SWITCHYARD	148.8
B-1107	SWITCHYARD	150.0
B-1108	SWITCHYARD	149.8
B-1109	SWITCHYARD	150.0
B-1110	SWITCHYARD	150.0
B-1111	SWITCHYARD	150.0
B-1112	SWITCHYARD	23.0
B-1112A	SWITCHYARD	150.0
B-1113	SWITCHYARD	170.0
B-1116	SWITCHYARD	138.5
B-1117	SWITCHYARD	149.3
B-1118	SWITCHYARD	149.4
B-1119	SWITCHYARD	150.0
B-1120	SWITCHYARD	149.8
B-1121	SWITCHYARD	150.0
B-1123	SWITCHYARD	150.0
B-1124	SWITCHYARD	150.0
B-1125	SWITCHYARD	150.0
B-1126	SWITCHYARD	150.0
B-1127	SWITCHYARD	150.0
B-1128	SWITCHYARD	73.0
B-1128A	SWITCHYARD	148.8
B-1129	POWER BLOCK ROADS	100.0
B-1130	POWER BLOCK ROADS	99.2
B-1131	POWER BLOCK ROADS	98.6
B-1132	POWER BLOCK ROADS	100.0
B-1133	POWER BLOCK ROADS	100.0
B-1134	POWER BLOCK ROADS	100.0
B-1136	POWER BLOCK ROADS	100.0

Boring/Test Pit Number	Location/Remarks	Total Depth (ft, bgs)
B-1138	HEAVY HAUL ROAD	100.0
B-1139	POWER BLOCK ROADS	150.0
B-1140	POWER BLOCK ROADS	150.0
B-1142	HEAVY HAUL ROAD	100.0
B-1146	HEAVY HAUL ROAD	98.6
B-1148	HEAVY HAUL ROAD	100.0
B-1150	HEAVY HAUL ROAD	100.0
B-1152	HEAVY HAUL ROAD	100.0
B-1153	HEAVY HAUL ROAD	100.0
B-1154	HEAVY HAUL ROAD	98.8
B-1155	PUMPHOUSE	150.0
B-1156	PUMPHOUSE	99.2
B-1157	PUMPHOUSE	150.0
B-1158	PUMPHOUSE	149.5
B-1159	PUMPHOUSE	150.0
B-1161	PUMPHOUSE	150.0
B-1162	PUMPHOUSE	200.0
B-1163	PUMPHOUSE	150.0
B-1164	PIPE LINE	150.0
B-1166	PIPE LINE	100.0
B-1168	PIPE LINE	100.0
B-1170	PIPE LINE	98.9
B-1172	PIPE LINE	100.0
B-1174	PIPE LINE	100.0
B-1176	PIPE LINE	35.0
B-1176A	PIPE LINE	100.0
B-1185	SWITCHYARD	148.9
B-1186	BATCH PLANT	178.8
B-1187	BATCH PLANT	150.0

Boring/Test Pit Number	Location/Remarks	Total Depth (ft, bgs)
B-1189	BATCH PLANT	150.0
B-1191	BATCH PLANT	150.0
B-1192	BATCH PLANT	179.5
B-1193	BATCH PLANT	178.8
B-1194	BORROW AREA 4	50.0
B-1195	BORROW AREA 4	50.0
B-1196	BORROW AREA 4	50.0
B-1197	BORROW AREA 4	50.0
B-3001(DH)	EAST POWER BLOCK	420.0
B-3002(DH)	EAST POWER BLOCK	249.9
B-3002A	EAST POWER BLOCK	21.5
B-3003(DH)	EAST POWER BLOCK	250.0
B-3004	EAST POWER BLOCK	160.0
B-3005	EAST POWER BLOCK	155.0
B-3006	EAST POWER BLOCK	155.0
B-3007	EAST POWER BLOCK	159.8
B-3008	EAST POWER BLOCK	155.0
B-3009	EAST POWER BLOCK	153.9
B-3010	EAST POWER BLOCK	160.0
B-3011	EAST POWER BLOCK	165.0
B-3012	EAST POWER BLOCK	159.3
B-3013(C)	EAST POWER BLOCK	155.0
B-3014	EAST POWER BLOCK	158.7
B-3015	EAST POWER BLOCK	150.0
B-3016	EAST POWER BLOCK	150.0
B-3017	EAST POWER BLOCK	150.0
B-3018	EAST POWER BLOCK	155.0
B-3019	EAST POWER BLOCK	153.8
B-3020	EAST POWER BLOCK	149.4

Boring/Test Pit Number	Location/Remarks	Total Depth (ft, bgs)
B-3021	EAST POWER BLOCK	154.5
B-3022	EAST POWER BLOCK	150.0
B-3023	EAST POWER BLOCK	150.5
B-3024	CIRC. WATER LINE	150.0
B-3025	CIRC. WATER LINE	150.0
B-3026	CIRC. WATER LINE	149.2
B-3027	CIRC. WATER LINE	150.0
B-3028	CIRC. WATER LINE	150.0
B-3029	CIRC. WATER LINE	149.9
B-3030	COOLING TOWER	150.0
B-3031	COOLING TOWER	150.0
B-3032	COOLING TOWER	149.5
B-3033	COOLING TOWER	149.3
B-3034	COOLING TOWER	149.2
B-3035	EAST POWER BLOCK	150.5
B-3036	EAST POWER BLOCK	155.0
B-3037	EAST POWER BLOCK	150.0
B-3038	CIRC. WATER LINE	98.9
B-3039	EAST POWER BLOCK	150.0
B-4001(DH)	WEST POWER BLOCK	399.9
B-4002(DH)	WEST POWER BLOCK	250.0
B-4003(DH)	WEST POWER BLOCK	249.8
B-4004	WEST POWER BLOCK	150.0
B-4005	WEST POWER BLOCK	164.9
B-4006	WEST POWER BLOCK	165.0
B-4007	WEST POWER BLOCK	170.0
B-4008	WEST POWER BLOCK	169.4
B-4009	WEST POWER BLOCK	164.9
B-4010	WEST POWER BLOCK	160.0

Boring/Test Pit Number	Location/Remarks	Total Depth (ft, bgs)
B-4011	WEST POWER BLOCK	150.0
B-4013(C)	WEST POWER BLOCK	165.0
B-4014	WEST POWER BLOCK	158.6
B-4015	WEST POWER BLOCK	155.0
B-4016	WEST POWER BLOCK	149.6
B-4017	WEST POWER BLOCK	150.0
B-4018	WEST POWER BLOCK	160.0
B-4019	WEST POWER BLOCK	160.0
B-4020	WEST POWER BLOCK	89.4
B-4020A	WEST POWER BLOCK	165.0
B-4021	WEST POWER BLOCK	150.0
B-4022	WEST POWER BLOCK	148.7
B-4023	WEST POWER BLOCK	150.0
B-4024	CIRC. WATER LINE	150.0
B-4025	CIRC. WATER LINE	150.0
B-4026	CIRC. WATER LINE	150.0
B-4027	CIRC. WATER LINE	150.0
B-4028	CIRC. WATER LINE	150.0
B-4029	CIRC. WATER LINE	150.0
B-4030	COOLING TOWER	150.3
B-4031	COOLING TOWER	150.0
B-4032	COOLING TOWER	38.5
B-4032A	COOLING TOWER	150.0
B-4033	COOLING TOWER	149.4
B-4034	COOLING TOWER	150.0
B-4035	WEST POWER BLOCK	164.8
B-4036	WEST POWER BLOCK	170.0
B-5001	230 KV SWITCHYARD	150.0
B-5002	230 KV SWITCHYARD	150.0

Boring/Test Pit Number	Location/Remarks	Total Depth (ft, bgs)
B-5003	230 KV SWITCHYARD	148.7
B-5004	230 KV SWITCHYARD	149.8
B-6002	BATCH PLANT	150.0
B-6003	BATCH PLANT	179.4
B-6004	BATCH PLANT	150.0
B-6005	BATCH PLANT	178.8
B-6006	CONSTRUCTION WAREHOUSE	50.0
B-6007	CONSTRUCTION WAREHOUSE	50.0
B-6008	DECHLORINATION BUILDING	150.0
B-6009	HEAVY HAUL ROAD	100.0
B-6010	500 KV SWITCHYARD	169.3
B-6011	HEAVY HAUL ROAD	120.0
B-6012	HEAVY HAUL ROAD	120.0
B-6013	ACCESS ROAD	50.0
B-6014	ACCESS ROAD	50.0
B-6015	ACCESS ROAD	50.0
B-6018	LAY DOWN YARD	50.0
B-6019	LAY DOWN YARD	50.0
B-6020	LAY DOWN YARD	130.0
B-6021	LAY DOWN YARD	120.0
B-6022	LAY DOWN YARD	90.0
B-6023	LAY DOWN YARD	50.0
B-6024	LAY DOWN YARD	50.0
B-6025	LAY DOWN YARD	50.0
B-6026	LAY DOWN YARD	50.0
B-6027	NEW BARGE SLIP	75.0
B-6028	NEW BARGE SLIP	50.0
B-6029	NEW INTAKE ACCESS ROAD	50.0
B-6030	NEW INTAKE ACCESS ROAD	50.0

Boring/Test Pit Number	Location/Remarks	Total Depth (ft, bgs)
TP-B-1108	SWITCHYARD	12.2
TP-B-1117	SWITCHYARD	9.0
TP-B-1121	SWITCHYARD	14.0
TP-B-1125	SWITCHYARD	11.0
TP-B-1185	SWITCHYARD	11.0
TP-B-1194	BORROW AREA 4	11.5
TP-B-1195	BORROW AREA 4	8.0
TP-B-1197	BORROW AREA 4	11.0

Prepared By/Date:	Matthew F. Cooke/5-23-07 M C	WITH PERMISSIOULG
Checked By/Date:	Alexandra Taylor/7-26-07	

Project 6141-06-0286 November 9, 2007

### **GEOTECHNICAL BORING LOGS**

· N	AJOR DIVISION	S	GI SYN	ROUP IBOLS	TYPICAL NAMES		Undisturbed S	ample		Auger Cuttings	
		CLEAN GRAVELS		GW	Well graded gravels, gravel - sand mixtures, little or no fines.	X	Standard Pene Dynamic Cone	tration Test or Penetration Test		Bulk Sample	
	GRAVELS (More than 50% of coarse fraction is	(Little or no fines)	000	GP	Poorly graded gravels or grave - sand mixtures, little or no fines.		Rock Core	2		Crandall Sampl	er
COARSE	LARGER than the No. 4 sieve size)	GRAVELS WITH FINES	000	GM	Silty gravels, gravel - sand - silt mixtures.		Dilatometer		^^^	Pressure Meter	
GRAINED SOILS	ā	(Appreciable amount of fines)		GC	Clayey gravels, gravel - sand - clay mixtures.		Packer		0	No Recovery	
(More than 50% of material is LARGER than No.		CLEAN		sw	Well graded sands, gravelly sands, little or no fines.	Ž	Water Table at	time of boring	Ā	Stabilized Water	r Level
200 sieve size)	SANDS (More than 50% of coarse fraction is	SANDS (Little or no fines)		SP	Poorly graded sands or gravelly sands, little or no fines.		Co	rrelation of Standard			nce
	SMALLER than the No. 4 Sieve	SANDS WITH		SM	Silty sands, sand - silt mixtures	_	RIGINA	with Relative Density GRAVEL	ity a	and Consistency SILT &	CLAV
	Size)	FINES (Appreciable	17/			$\dashv$	No. of Blows	Relative Density	-	No. of Blows	Consistency
=	189	amount of fines)		SC	Clayey sands, sand - clay mixtures.	H	0 - 4	Very Loose		0 - 2	Very Soft
			HH		Inorganic silts and very fine sands, rock flour,		5 - 10	Loose		3 - 4	Soft
				ML	silty of clayey fine sands or clayey silts and with slight plasticity.	-	11 - 30	Medium Dense		5 - 8	Firm
2	SILTS AN	D CLAYS			Inorganic lays of low to medium plasticity.		31 - 50	Dense		9 - 15	Stiff
PINE	(Liquid limit I			CL	gravelly clays, sandy clays, silty clays, lean clays.	-	Over 50	Very Dense	-	16 - 30	Very Stiff
FINE GRAINED					Organic silts and organic silty clays of low					31 - 50	Hard
SOILS				OL	plasticity.		1			Over 50	Very Hard
(More than 50% of material is	-				Inorganic silts, micaceous or diatomaceous			<del></del>		1	
SMALLER than No. 200 sieve size)	SILTS AN	D CLAYS		MH	fine sandy or silty soils, elastic silts.		Correlati Relative D	on of Dynamic Concensity and Consiste	e Pe	netration Resista (Piedmont Resid	nce with lual Soils)
	(Liquid limit GR			CH	Inorganic clays of high plasticity, fat clays	F		z GRAVEL		SILT &	
				011	Organic clays of medium to high		No. of Blows	Relative Density	]	No. of Blows	Consistency
				ОН	plasticity, organic silts.		0 - 4	Very Loose		0 - 2	Very Soft
ша	HIGHLY ORGANIC SOILS			PT	Destand the birth and the		5 - 15	Loose		3 - 4	Soft
nion .					Peat and other highly organic soils.		16 - 30	Medium Dense		5 - 10	Firm
BOUNDARY CL	ASSIFICATIONS:	Soils possessing	chara	eteristics	of two groups are designated by combination	ons				11 - 30	Stiff
		of group symbols	3.				I I		ø	8	
		SANI	)	1	GRAVEL.	No.	KRY	Y TO SYI	M	ROLSA	ND

### SAND GRAVEL Cobbles Boulders Fine Medium Coarse Fine Coarse Boulders No.200 No.40 No.10 No.4 3/4" 3" 12"

U.S. STANDARD SIEVE SIZE

Reference: The Unified Soil Classification System, Corps of Engineers, U.S. Army Technical Memorandum No. 3-357, Vol. 1, March, 1953 (Revised April, 1960)

### KEY TO SYMBOLS AND DESCRIPTIONS





COGRED BY   M. Horrera   COGRED BY   COGRED BY   COGRED BY   M. Horrera   M. Horrera   COGRED BY   M. Horrera	GE	OTECHNICAL LOG	<u> </u>	OJECT	nite 3	. R. 1	CC	N Project	JOB NO.	06_0286	SHEET NO		DLE NO. <b>B-1105</b>
Description			* (			0 & 4		)L i i oject	0141-0		1 OF		
Barnett-Greek Drilling	DDILLED		DI	DII I MAK									
Second   S	DRILLER		Di	KILL WAN								DEK	
NOTES ON WATER CONTENT %		DEL. DEPTH/EL. GROUND WATE	R SITE	:				•		!			
SAPERABED BY A. TAYLOR REVIEWED BY P. DEPPREE   SAPE   SAPE	257	7.9 <u>*</u> ' <sub>/</sub>						Vogtle Elect	ric Gene	erating Pla	ant - Wa	ynesbor 	0, GA
SS	SAMP. TYPE AND NO.	○ WATER CONTENT % + ATT. LIMITS % □ FINES %	181 0 7- 2nd 6" 0 3rd 6" 4	_		DEPTH IN FT	GRAPHICS	( * = field cl	lassification adjus	sted based on	ION	WATER L CHARAC DRILLING LABORA	LEVELS, TER OF G AND TORY
Solution   Solution	SS	A 20 40 00 00 00 00 00 00 00 00 00 00 00 00	3-5-6		.51.5	_		SAND, silty (S	SM)- Stron	g brown (7.5	YR e grained	Top of Ba	rnwell
SAA except yellowish brown (10YR 5/4)   SAA except brown (7.5YR 4/4)   SAA except brown (7.5YR 4/4)   SAA except dark yellowish brown (10YR 4/4)   SAA except dark yellowish red (5YR 4/6), damp, medium stiff, low plasticity   SAND, claycy (8C)- Yellowish red (5YR 8/6), damp, medium dense, rounded   SAND, with silt (SP-SM)- Yellowish brown (10YR 5/4), damp, medium dense, rounded   SAND, with silt (SP-SM)- Yellowish brown (10YR 5/4), damp, medium dense, rounded   SAND, with silt (SP-SM)- Reddish yellow (5YR 6/6), damp, medium dense, rounded   SAND, silty (SM)- Strong brown (7.5YR 5/6), damp, medium dense, rounded   SAND, silty (SM)- Strong brown (7.5YR 5/6), damp, medium dense, rounded   SAND, silty (SM)- Strong brown (7.5YR 5/6), damp, medium dense, rounded   SAND, silty (SM)- Strong brown (7.5YR 5/6), damp, medium dense, rounded   SAND, silty (SM)- Strong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- Strong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- Strong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- Strong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- Strong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- Strong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- Strong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- Strong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- Strong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- Strong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- Strong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- Strong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- Strong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- Strong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- Strong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- STrong brown (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, silty (SM)- STrong br	SS X	<b>A</b>				-		rounded SAA except str	rong browr	n (7.5YR 5/6		0.0 feet	a depth of
SS   SS   SS   SS   SS   SS   SS   S	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		4-10-13	17		5-					5/4)		
SS	ss	<b>A</b>	9-12-14	17		-		SAA except br	own (7.5Y	R 4/4)			
SS   A   1-1-2   17   240.9   240.9   SAND, clayey (SC)- Yellowish red (5YR 4/6), damp, medium suif, low plasticity   SAND, clayey (SC)- Yellowish red (5YR 4/6), loose   SAND, clayey (SC)- Yellowish red (5YR 4/6), loose   SAND, with silt (SP-SM)- Yellowish brown (10YR 5/4), damp, medium dense, rounded contains pale yellow (5Y 7/3) clay lenses   SAND, with silt (SP-SM)- Yellowish brown (10YR 5/4), damp, medium dense, rounded contains pale yellow (5Y 7/3) clay lenses   SAND, with silt (SP-SM)- Reddish yellow (5YR 4/6), wat, medium dense, rounded   Water level depth at end of 12/04/2006 = Ground surface   Ground surface   SAND, with silt (SP-SM)- Reddish yellow (5YR 6/8), wet, medium dense, 40% coarse   SAND, with silt (SP-SM)- Reddish yellow (7.5YR 6/6 and 7.5YR 6/8), damp   SAND, dayey (6C)- Brownish yellow (10YR   12/05/2006 = 5.2 feet   SAND, dayey (6C)- Brownish yellow (10YR   12/05/2006 = 5.2 feet   SAND, dayey (6C)- Brownish yellow (10YR   12/05/2006 = 5.2 feet   SAND, dayey (6C)- Brownish yellow (10YR   12/05/2006 = 5.2 feet   SAND, dayey (6C)- Brownish yellow (10YR   12/05/2006 = 5.2 feet   SAND, dayey (6C)- Brownish yellow (10YR   12/05/2006 = 5.2 feet   SAND, dayey (6C)- Brownish yellow (10YR   12/05/2006 = 5.2 feet   SAND, dayey (6C)- Brownish yellow (10YR   12/05/2006 = 5.2 feet   11/05/2006   SAND, dayey (6C)- Brownish yellow (10YR   12/05/2006   SAND	ss	0[4	6-10-12		44 9	- -		SAA except da	ark yellowi	sh brown (10	YR 4/4)		
SAND, clayey (SC)- Property   SAND, clayey (SC)- Brownish yellow (10YR   SAND, with silt (SP-SM)- Reddish yellow (5YR 6/8), wet, medium dense, 40% coarse grained, rounded   SAND, with silt (SP-SM)- Reddish yellow (5YR 6/8), wet, medium dense, 40% coarse grained, rounded   SAND, with silt (SP-SM)- Reddish yellow (5YR 6/8), wet, medium dense, 40% coarse grained, rounded   SAND, with silt (SP-SM)- Reddish yellow (5YR 6/8), wet, medium dense, 40% coarse grained, rounded   SAND, with silt (SP-SM)- Reddish yellow (5YR 6/8), wet, medium dense, 40% coarse grained, rounded   SAND, clayey (SC)- Brownish yellow (10YR   SAND, cla	SS 7	<b>A</b>	4-3-3			15—		CLAY, sandy 4/6), damp, me	(CL)- Yel	lowish red (s	SYR Sy		
SS	SS 8	<b>A</b> +0-G+	1-1-2		40.9_	20-		<b>SAND, clayey</b> 5/6), damp, ver	(SC)- Yel ry loose, ro	lowish red (5	SYR		
SS	SS 9		3-7-10		30.9_	25-		SAA except ye	ellowish red	d (5YR 4/6),	loose		
SS			8-7-17		25.9_	30-		SAND, with si (10YR 5/4), da contains pale y	ilt (SP-SM amp, mediu vellow (5Y	)- Yellowish im dense, rou 7/3) clay len	brown inded, ses		
SS 12   SAND, with silt (SP-SM)- Reddish yellow (5YR 6/8), wet, medium dense, 40% coarse grained, rounded   SAND, with silt (SP-SM)- Reddish yellow (5YR 6/8), wet, medium dense, 40% coarse grained, rounded   SAND, with silt (SP-SM)- Reddish yellow (5YR 6/8), wet, medium dense, 40% coarse grained, rounded   SAND, clayer (SC)- Brownish yellow (10YR 6/6), wet, loose, rounded   SAND, clayer (SC)- Brownish yellow (10YR 6/6), wet, loose, rounded   SITE   Vogtle Units 3 & 4 COL Project   HOLE NO.   B-1105			7-10-12		20.9_	35-		<b>SAND, silty (</b> \$5/6), damp, me	SM)- Stronedium dens	g brown (7.5 e, rounded	YR	end of 12	/04/2006 =
SS AND, clayey (SC) - Brownish yellow (10YR  SAND, clayey (SC) - Brownish yellow (10YR  FREVIEWED BY: P. DEPREE  SAND, clayey (SC) - Brownish yellow (10YR  Wogtle Units 3 & 4 COL Project  Final Log  SAND, clayey (SC) - Brownish yellow (10YR  6/6), wet, loose, rounded  B-1105	SS 12	<b>A</b>	13-13-14	13		40-		SAND, with si (5YR 6/8), wet grained, round	ilt (SP-SM t, medium o ed	)- Reddish y dense, 40% c	ellow oarse	Water lev	el denth at
SS SAND, clayey (SC) - Brownish yellow (10YR 6/6), wet, loose, rounded  PREPARED BY: A. TAYLOR  REVIEWED BY: P. DEPREE  SAND, clayey (SC) - Brownish yellow (10YR 6/6), wet, loose, rounded  Wogtle Units 3 & 4 COL Project  Final Log  B-1105	SS 13		7-9-10		10.9	45-		SAA except re 7.5YR 6/8), da	ddish yello mp	ow (7.5YR 6/	6 and		
REVIEWED BY: P. DEPREE Final Log B-1105	ss	<b>A</b>	5-4-4	21		- - -		6/6), wet, loose	e, rounded		v (10YR		
				Si						t			1105



GE	EC	OTECHNI	CAL LO		OJE( ogtl		3 & 4	l CC		ET NO.	3 B-1105
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (3  ○ WATER CO  + ATT. LIMIT  □ FINES %  20 40	ONTENT %	1st 6" - 2 2nd 6" O 3rd 6" - 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40				205.9_	-				
SS 15	X	<b>A</b>		3-4-6	27		55-		CLAY, sandy (CH)- Pale yellow (5Y 7/3), damp, stiff, medium plasticity, -HCL		
SS 16	X	<b>A</b>		8-10-10	24		60-		SAA except very stiff, +HCL		
SS 17	X	<b>A</b>		20-11-14	22	100.0	65-		SAA except pale yellow (5Y 8/2)		
SS 18	X	<b>^</b>		20-15-26	17	190.9_	70-		CLAY (CH) - Pale yellow (5Y 8/3), damp, hard, medium plasticity, +HCL		
SS 19	X	•		3-3-5	27		75 –		SAA except pale yellow (5Y 8/4), medium s	stiff	
SS 20	X	<b>A</b>		3-4-7	27		80-		SAA except pale yellow (5Y 7/3), stiff		
SS 21	×			50/4"	4	175.9_	85-		*SILT (MH) - Pale yellow (5Y 8/3), damp, hard, with shell fragments, +HCL		
SS 22	X	<b>A</b>		12-17-15	25	170.9_	90-		CLAY, sandy (CH)- Pale yellow (5Y 8/4), damp, hard, medium plasticity, +HCL		
SS 23	X	<b>A</b>		16-20-16	26	165.9_	95-		*SAND, clayey (SC)- Pale yellow (5Y 7/4) damp, dense, rounded, with shell fragments, +HCL	),	
SS 24	X	<b>A</b>		11-11-21	27	160.9_	100-		CLAY, with sand (CH)- Pale yellow (5Y 8/3), damp, hard, high plasticity, +HCL		
SS 25	$\times$			20-50/5"	16	155.9_	105-		CLAY, sandy (CL)- Pale yellow (5Y 8/2), damp, hard, +HCL		
		<u> </u>	<u> </u>			150.9_ SITE	<b>V</b>		e Units 3 & 4 COL Project Final Log	F	B-1105



<u></u>	SHEET NO.   SHEE													
G	=(	TECHNICAL LO	G V	ogtl	e Units	3 & 4	1 C(	OL Project	6141-06-0286	<b>3</b> OF	3	B-1105		
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>z</del> 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field (	ON AND CLASSIFICAT classification adjusted based on testing data and/or re-examination by field geologist/engineer)	ION	WATE CHAF DRILI	ES ON: ER LEVELS, RACTER OF LING AND DRATORY ING		
SS 26	X	<b>A</b>	12-12-24	19		110-		*CLAY, sand Pale yellow (5 plasticity, +H	ly with shell fragments Y 8/2), damp, hard, med CL	(CH)- dium				
SS 27	X		13-50/6"	21		115-		SAA except p	ale yellow (5Y 8/4)					
SS 28	X		16-50/5"	18	135.9_	120-		SAA						
SS 29	X	<b>A</b>	8-15-17	27	130.9_	125-		CLAY, with 9 7/4), damp, ha	sand (CH)- Pale yellow ard, medium plasticity, +	(2.5Y HCL				
SS 30	X	<b>A</b>	9-16-20	25	130.9_	130-		SAND, clayer damp, dense,	y (SC)- Light gray (2.5Y rounded, +HCL	7/2),	Water	r level depth at f 12/05/2006 = nd surface		
SS 31	X	<b>A</b>	16-15-17	17		135-		SAA except v contains pale	ery pale brown (10YR 8 yellow (5Y 8/2) CLAY	3/2), wet, lenses	Groui	nd surface		
SS 32	X	<b>A</b>	7-10-13	24	115.9_	140-		SAA except p medium dense	ale yellow (2.5Y 7/3), de	amp,				
SS 33	X	<b>A</b>	10-14-18	23	110.9_	145-	- - - - -	SAND, silty (damp, dense,	SM)- Pale yellow (2.5Y rounded, +HCL	7/3),				
SS 34	×		50/3"	0	109.1_	-	-1.1	NO RECOVI Boring termin	ERY ated at 148.75 feet					
				1	SITE	V	ogtl	e Units 3 & 4 C			HOLE	NO. B-1105		
						28 of	704	Final Lo	<u> </u>			0-1109		



	PROJEC		2 & 1 (	COI	Project	JOB NO.	06-0286	SHEET NO		HOLE NO. <b>B-1107</b>
LOGGED BY		DINATES	3 & 4 (	COL	Troject	0141-0	BEGUN	1 OF	COMPL	
C. Bruce	DBILL	MAKE AND			8 E 6209		1/11/200 HAMMER SE		1/16/2	2007 TOTAL DEPTH
Poole-Gregg Drilling	DIVILL		ste MD			Inches		X02958	LIX	150.0
GROUND EL. DEPTH/EL. GROUND WATER $\mathbf{Z}$ / $\mathbf{Z}$ /	SITE:			V	gtle Elect	ric Cone	rating Pl	ont Wo	vnosho	ro CA
200.7 ₹ /					gue Elect	iic Gene	rating 1 is	ant - wa	ynesbo	10, GA
AN-VALUE (SPT)  O WATER CONTENT %  FINES %  20 40 60 80	3rd 6" \( \frac{2}{3} \)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field of laboratory of of sample b	ON AND CL classification adjusting data and/or y field geologist/or	sted based on	ION		LEVELS, CTER OF IG AND ATORY
SS 1 2-2-1	1 21	200.7	- %	S	AND (SP) - I	Brownish y	ellow (10YI	R 6/8),	Top of E	Barnwell t a depth of
SS 2 N 1-2-2		263.4_	-	S	AA AND, silty (sose, fine to a				0.0 feet	, a surprise
SS	5 15	261.2_	5-1	<del>}}-</del>						
4   ∆	5 13		-//		AND, clayey cose, fine to i	nedium gra	ined	), 1110131,		
5 SS V A 8-9-5	9 10		10-	s	AA					
6   ∆	13 15			s	AA					
7	7 10	249.7_	20-	Sn	AND, silty ()	SM)- Red (	(2.5YR 4/6), edium graine	moist,		
SS 9 A 6-8-5	) 12	239.7_	25-	S	AA except y rained, conta	ellowish red ins CLAY	d (5YR 5/6), lenses	fine		
SS N 8-10-1	13 7		30-	S	AND (SP) - Yourst, medium	Very pale b n dense, fin	orown, (10YF e to medium	R 8/3), grained		
SS 11 13-13-	13 17	234.7_	35—	Sn	AND, silty (and the second sec	SM)- Red (	(2.5YR 4/6), ed, contains	moist, traces of		
SS N 8-11-1	10 11		40-	S	AND, clayey /8), moist, m	( <b>SC)</b> - Bro edium dens	ownish yellov se, fine grains	w (10YR ed		
SS 13 A 7-5-4	4 15		45	S	AA except voose, fine to d	ery pale bro coarse grain	own (10YR 7 ned, -HCL	7/3), wet,		
SS 3-3-2	1 20	218.2_	-1/	$\frac{1}{1}$ $\frac{1}{7}$	ILT (ML) - 1/10Y), moist	Light green very stiff,	ish grey (GL +HCL	ĒŸĪ		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vo <sub>§</sub>	gtle U H	nits 3 & 4 C Final Log	OL Projec	t		HOLE NO	1107



GE	EC	TECHNICAL LO	<u> </u>	OJE(		3 & 4	l C	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 OF		HOLE NO. <b>B-1107</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" - z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	CHARA DRILLI	R LEVELS, ACTER OF NG AND RATORY
14		20 40 00 00			214.7_	-				
SS 15	X	<b>A</b>	6-4-8	24	209.7	55—		*CLAY (CL) - Light greenish grey (GLEY 1 7/10Y), moist, stiff, contains shell fragments, +HCL		
SS 16	X	<b>A</b>	4-4-5	24	209.7_	60-		CLAY, silty (CL-ML)- Light greenish grey (GLEY 1 7/10Y), moist, stiff, contains shell fragments, +HCL	end of	evel depth at 1/11/2007 =
SS 17	X	<b>A</b>	3-4-5	24		65-		SAA	Water l	evel depth at ng of 107 = 25.0 feet
SS 18	X	•	9-8-11	14	199.7_	70—		*SHELL HASH, clayey (GC)- Light greenish grey (GLEY 1 7/10Y), wet, medium dense, +HCL		
SS 19	X	<b>A</b>	35-29-42	15	194.7_	75—		SAND with clay (SP-SC)- Light greenish grey (GLEY 1 7/10Y), wet, hard, coarse grained, contains shell fragments		
SS 20	X	<b>A</b>	17-15-21	16	189.7_	80-		SAND, silty, clayey (SC-SM)- Light greenish grey (GLEY 1 7/10Y), wet, dense, coarse grained, +HCL		
SS 21	X	<b>A</b>	18-15-22	16	184.7_ 179.7	- - 85 —		*SHELL HASH, clayey (GC)- Light greenish grey (GLEY 1 8/10Y), wet, dense, contains traces of fine to coarse grained SAND, +HCL		
SS 22	X	•	10-15-50/3"	17	1/9./_	90—		SAND, clayey (SC)- Very pale brown (10YR 7/3), moist, very dense, +HCL		
SS 23	X	<b>A</b>	12-13-15	15		95—		SAA except wet, medium dense, medium to coarse grained		
SS 24	X	•	14-21-27	14	169.7_	100-		*SHELL HASH, with clay and sand (GP-GC) - Pale brown (10YR 6/3), wet, dense, +HCL		
SS 25	X	<b>A</b>	20-21-30	20	164.7_	105-	DE	SAND, clayey (SP-SC)- Pale brown (10YR 6/3), wet, very dense, medium to coarse grained, contains traces of shells, +HCL		
					159.7_ SITE	V 30 of	ogtl	e Units 3 & 4 COL Project Final Log	HOLE N	o. -1107



GE		TECHNICAL LO	<u> </u>	OJE(		3 Rr 1		JOB NO. SHI DL Project 6141-06-0286	EET NO.	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" X	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	I	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	20 40 00 80	19-23-23	19	154.7_	110-		*SHELL HASH, clayey (GC)- Pale brow (10YR 6/3), wet, dense	vn	
SS 27	X	<b>A</b>	21-18-18	23	134.7_	- - 115—		SAND, clayey (SC)- Very pale brown (10 7/3), wet, dense, fine to coarse grained, contains shell fragments, +HCL	OYR	
SS 28	X	<b>A</b>	10-11-8	20	149./_	120-		SAND, silty (SM)- Very pale brown (10Y 7/3), wet, medium dense, fine to medium grained, +HCL		Water level depth at beginning of 1/13/2007 = 50.0 feet
SS 29	X	<b>A</b>	15-19-21	16		125-		SAA except damp, dense, non-plastic		1/13/2007 = 50.0 feet
SS 30	×	•	50/5"	6	138.2_	130-		SAND, silty (SM)- Very pale brown (10Y 7/3), wet, very dense, fine to medium grain contains shell fragments and cemented noc+HCL	TR ned, dules,	Top of Utley Limestone at a depth of 128.5 feet
SS 31	×		50/6"	9.5	130.2_	135-		SAA except very pale brown (10YR 8/3), grained, contains shell fragments, non-plas		
SS 32	X	<b>A</b>	23-22-40	27.5		140-	- - - -	SILT (ML) - Greenish grey (GLEY 1 5/1) damp, hard, low plasticity, +HCL	),	Top of Blue Bluff Marl at a depth of 136.5 feet
SS 33	X		14-21-50/3"	24		145-	- - -	SAA except contains shell fragments		
SS 34	X	<b>A</b>	15-34-30	27	116.7_	150-	-	SAA Boring terminated at 150 feet		
					SITE	V	ogtl/	e Units 3 & 4 COL Project Final Log	1	HOLE NO. <b>B-1107</b>



GI	ΞΟ	TECH	INICA	AL LO	C	OJEC		2 8- /	1.00	DL Project	JOB NO.	06-0286	SHEET NO		HOLE NO.
LOGG							DINATES	3 & 4	·CC	JL Project	0141-0	BEGUN	<b>1</b> OF	COMPL	B-1108 ETED
DRILL	FR	C	. Bruce	2		RILI	MAKE AND	N 114		HOLE DIA	1273.0 AMETER	1/3/200 HAMMER SE		1/10/2	2007 TOTAL DEPTH
DIVILL		Poole-C				TULL		ste M			Inches		X02958		149.8
GROU	73.6	$\nabla$		ROUND WA	TER SIT	E:				Vogtle Ele	ctric Gen	erating Pl	ant _ Wa	vnesho	ro GA
	1	<u> </u>	<u>'</u>							v ogtic Eic	ctric Gen	crating 1 is	ant - vva	ynesbo	10, GA
SAMP. TYPE AND NO.	SAMPLE	N-VAL  WATE  HATT. L  FINES  20	R CONT	ENT %	1st 6" -z 2nd 6" 05 3rd 6" 14	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = fie	FION AND C Id classification adju ry testing data and/o le by field geologist/	LASSIFICAT usted based on r re-examination (engineer)	ION		LEVELS, CTER OF IG AND ATORY
SS 1	M.				<b>♦</b> WOH/18"	16	273.0			very loose, i	(SM) Yello fine grained	ow (10YR 7/6	), moist,	Top of E Group a	t a depth of
SS 2		;			0-1-2	5	270.1			SAA				0.0 feet.	
SS 3		<b>-</b> :		:	0-1-2	11		5-		* <b>SAND, wi</b> t 7/6), moist,	th silt (SP-SI very loose, fi	M) Yellow (1 ine grained	0YR		
SS 4		1			1-3-4	11		-		SAA except	grades to a p	pale brown (1 of spoon	0YR 8/2),		
SS			<b>A</b>		10-19-26	19	265.6_ 264.6_	-		– – – – – – SAND. (SP)	 <b>)-</b> Light yello	wish brown	 (10YR -		
5 SS 6	X	□ + ▲	+		14-16-16	14		10-		$\backslash 6/4$ ), wet, m	edium dense. th clay (SP-S	, coarse grain SC)- Yellowis	ed /		
SS 7		•			9-12-16	10		15-	-	SAA except	Red (2.5YR	4/6)			
SS 8	X	<b>A</b> -			5-7-9	11	256.6 <sub>_</sub>	20-		*SAND, silt	ty (SM)- Redium g	d (2.5YR 4/6) grained	, moist,	Water le	vel depth at
SS 9		⊒ ▲			8-8-10	12	246.6_	25-		SAND, with moist, medi	n silt (SP-SM um dense, fin	I)- Red (2YR ne to medium	4/8), grained	1000	
SS 10	X	<b>A</b>			9-12-14	12	241.6_	30-		SAND (SP) grades to a p spoon, mois grained, litt	- Reddish ye pinkish white t, medium de le to no fines	ellow (5YR 7/ 2 (5YR 8/2) at ense, fine to n	(8), base of nedium		
SS 11		] <b>Å</b>			8-9-11	16	236.6_	35-		*SAND, wir (5YR 5/8), r coarse grain	th silt (SP-S) moist, medium ed with trace	M)- Yellowis m dense, med es of shells ar	h red lium to nd CLAY		
SS 12	X	<b>A</b>	+		7-7-6	13	231.6	40-		*SAND, cla (10YR 6/6), and cemente	nyey (SC)- Bi moist, medic ed nodules	rownish yello um dense, tra	ow ces of silt		
SS 13					4-3-3	11	251.0	45 –		SAND, with (10YR 6/8), grained	n clay (SP-SO moist, loose	C)- Brownish, fine to medi	yellow um		
SS					1-2-3	22	225.1_	- - -				Light greenis medium stiff	h gray , low		
		BY: A. TA BY: P. DE					SITE	V	ogtl	e Units 3 & 4 Final L		et		HOLE NO	-1108
							1	32 of	<del>724</del>	<u> </u>					<u> </u>



GE	EOTECHNICAL LO	~	ojec ogtl		3 & 4	C	DL Project   JOB NO.   SHEET   SHEET	NO. OF	
SAMP. TYPE AND NO.	LINES %	1st 6" - <del>2</del> 2nd 6" <u>9</u> 3rd 6" <del>4</del>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 60 80						plasticity, trace of fine sand		
SS 15		55-20-14	24		55		SAA, except low plasticity		
SS 16		9-14-18	24	211.6	60-		SAA except dark greenish gray (GLEY1 4/10GY)		
SS 17		8-9-50/3"	24	211.6_	65—	333	CLAY, sandy (CL)- Light greenish gray (GLEY1 8/5GY), moist, hard, traces of angul shell fragments at base of spoon, +HCL	ar	
SS 18		13-24-19	18	200.6	70-		*SAND, clayey (SC)- Light greenish gray (GLEY1 8/10Y), moist, dense, clay matrix, with shell fragments, +HCL		
SS 19		9-11-13	19	196.6	75		SAND, silty (SM)- Light greenish gray (GLEY1 8/10Y), moist, medium dense, fine t medium grained, trace of sub-rounded cemented nodules, +HCL	o	Water level depth at end of 01/04/2007 = Ground surface
SS 20		12-14-16	8	191.6_	80-		SAND (SP) - Very pale brown (10YR 8/2), moist, dense, medium to coarse grained, +HC	L	Water level depth at beginning of 01/05/2007 = 37.0 feet
SS 21		18-13-10	13	186.6	85—		*SHELL HASH (GP)- Very pale brown (10YR 8/2), wet, medium dense, sand and CLAY matrix, +HCL		
SS 22		16-24-32	16	100.0_	90-		*SAND, clayey (SC)- Very pale brown (10YR 8/2), moist, very dense		
SS 23		16-21-22	13		95		SAA except very pale brown (10YR 7/3), dense, fine to medium coarse SAND, trace of subangular shell fragments, trace of silt, +HC	L	
SS 24		13-16-18	15	171.6_	100-		SAA		
SS 25		18-30-23	19	1/1.0_	105		*SAND, with clay (SP-SC)- Very pale brow (10YR 7/3), wet, very dense, contains shell fragments, medium to coarse SAND, +HCL	n	Water level depth at end of 01/07/2007 =
		I	<u> </u>	SITE	V	ogtl		HOLE NO. <b>B-1108</b>	



GE		TECHNICAL LO	<u> </u>	OJEC		3 & A	C	JOB NO.   S DL Project   6141-06-0286	HEET NO	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATIO  (*= field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	20 40 60 80	17-21-16	19		110-		SAA except dense		Ground surface Water level depth at beginning of 01/08/2007 = 58.0 feet
SS 27	X	<b>A</b>	12-20-20	19	156.6	- - 115—		SAA		
SS 28	X	<b>A</b>	21-21-26	21	156.6_ 151.6	120-	_ <b>Y</b> ∠	SAND, silty (SM)- Very pale brown (10, 7/3), wet, dense, sand fine to medium gratraces of clay and shell fragments, +HCI	OYR rained,	
SS 29		,	50/1"	2	131.6_	125—		*SAND, clayey (SC)- Very pale brown (10YR 7/4), wet, very dense, shell hash of CLAY matrix, fine to coarse grained, +F	with HCL	Top of Utley Limestone at a depth of 122.0 feet
SS 30	X	<b>A</b>	14-17-17	15	140.0_	130-		*SAND, with silt (SP-SM)- Very pale b (10YR 7/4), wet, dense, sandy shell hash of CLAY, +HCL	oown n, trace	
SS 31	×		50/5"			135-		SAA		Water level depth at end of 01/08/2007 = Ground surface
SS 32	X	<b>A</b>	14-26-44	24	135.1_	140-		CLAY, silty (CL-ML)- Dark greenish g (GLEY1 4/10GY), moist, hard, +HCL	gray	Water level depth at beginning of 01/10/2007 = 58.0
SS 33	X	<b>A</b>	17-20-28	24		145-		SAA		Top of Blue Bluff Marl at a depth of 138.5 feet
SS 34	X	•	22-28-50/4"		123.7_	- - -		SAA Boring terminated at149.83 feet		
					SITE	V 34 of	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1108</b>



	=_	TECHNICAL I OC	PR	OJEC	CT				JOB NO.		SHEET NO		HOLE NO.
		OTECHNICAL LOG	, ,			3 & 4	COl	L <b>Project</b>	6141-0	06-0286	<b>1</b> OF		B-1109
LOGG	ED		C	OOR	DINATES	NT 4 4 4	4400			BEGUN	_	COMPL	
DRILL	FD	M. Herrera	D	DII I	MAKE AND			0.5 E 6215 HOLE DIAM		1/8/200 HAMMER SE		1/10/	<b>2007</b> Ttotal depth
SINIEL		<b>Burnett-Gregg Drilling</b>		. XILL		ME-85			nches		165952		150.0
GROU		EL. DEPTH/EL. GROUND WATE	R SITE	Ē:	<u>C</u> 1	VIL-U	30	31	inches		103732		150.0
2	<b>76</b> .	5.5 \( \tilde{\ti					V	ogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	ro, GA
뷥.		▲ N-VALUE (SPT)	N-COUNT	(ii)	Z.	ե	ပ္ပ					NOTES	ON:
≥8		O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ER	ATIC EET	르	읽	DESCRIPTION		I ASSIEICAT	ION		R LEVELS, CTER OF
SAMP. TYPE AND NO.	SAMPLE	+ ATT. LIMITS %	3 2 2	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN	GRAPHICS	( * = field c	lassification adiu	sted based on	1014	DRILLII	NG AND
s,		☐ FINES %		REC	Ш	BE	٥	of sample b	esting data and/o y field geologist/	engineer)		TESTIN	ATORY IG
		20 40 60 80	121	11	276.5		. 1111						
SS 1	M		1-2-1	11				SAND, with s 7/6), dry, very SAA except by	ilt (SP-SM loose, fine	l)- Yellow (1 grained, rou	0YR inded	Top of I Group a	Barnwell at a depth of
SS 2 SS	X		3-3-2	16				SAA except by damp, loose	rownish ye	llow (10YR	6/6),	0.0 feet	
SS	M		1-2-2	14				SAA except li	ght yellow	ish brown (1	0YR 6/4),		
3			10 12 15		271.0_	5-							
SS 4	X		10-12-15	17				SAND, clayey medium dense pale yellow (2	(SC)- Red , fine grain	d (2.5YR 4/8 ied, contains	), damp, traces of		
SS	$\mathbb{H}$	<b>A</b>	9-11-12	18			//	(7.5  Y R  6/8)	.5 Y //4) ar	id reddish ye	ellow		
5	A					10-		SAA					
SS	M	<b>A</b>	8-8-10	16				SAA except re yellow (7.5YR grained, round	ed (2.5YR :	5/8) and redd	lish		
6			0.00	16							clise, fille		
SS 7	X		8-8-9	16		15		SAA except re	ed (2.5YR :	5/8)			
					260.5_	13 /							
SS	M	<b>A</b>	6-7-11	18		-		SAND, with s	ilt (SP-SM	I)- Reddish y	rellow		
8	H					20		SAND, with s (5YR 6/6), we grained, round	t, mealum ed	dense, mean	ım		
SS	$\mathbb{H}$	<b>Å</b>	7-8-12	11				SAA					
9	Å					25		57.17					
					249.5_								
		_											
SS 10	M	<b>^</b>	10-6-7	11		30-		SAND, silty (S moist, loose, c	SM)- Light ontains yel	t red (2.5YR llow (10YR 8	6/8), 8/6), fine		
					245.5_	30-	#	grained, round	ed				
SS	$\forall$	<b>A</b>	8-9-12	10				<b>SAND, with s</b> (7.5YR 6/8), y	ilt (SP-SM	I)- Reddish y	ellow		
11	H					35		(7.5 Y R 6/8), v grained, round	vet, mediur led	ii dense, med	uum		
					239.5_		$\parallel$						
SS	$\mathbb{H}$	<b>A</b>	4-6-7	11				SAND clayer	(SC)- Br	ownish vello	XX/		
12	X					40-		SAND, clayey (10YR 6/6), m grained, round	oist, medic	im dense, me	edium		
					234.5_								
								- — <del>-</del>					
SS 13	M	_	3-3-5	20		45-		CLAY, sandy moist, medium	(CL)- Pal stiff, low	e yellow (2.5 plasticity	5Y 7/3),		
					230.5_	+3-							
SS	M	<b>A</b>	18-13-18	18				*CLAY, silty 8/2), damp, ha	(CL-ML)	- Pale yellow	(5Y		
PREP	V V ARE	ED BY: A. TAYLOR			SITE	Vo	ogtle l	Units 3 & 4 C	OL Projec	n piasticity, ( t	contains	HOLE NO	
REVIE	WE	D BY: P. DEPREE				35 of 7		Final Log	5			B	-1109



GE	ΕC	TECHNICAL LOC	<u> </u>	OJE(		3 & 4	l CO	JOB NO.   SHEET   SHEE	NO. OF <b>3</b>	HOLE NO. <b>B-1109</b>
SAMP. TYPE AND NO.	SAMPLE		1st 6" -x 2nd 6" 00 3rd 6" 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NC WA CH DR LA	OTES ON: ATER LEVELS, IARACTER OF ILLLING AND BORATORY STING
14		20 40 00 00			224.5_	-		shell fragments, +HCL	Wa end Gro	ater level depth at d of 01/08/2007 = ound surface
SS 15	X	<b>A</b>	9-20-16	27	219.5_	55 —	- - - - -	SILT (ML) - Pale yellow (5Y 8/3), damp, hard, low plasticity, +HCL	Wa Wa	ater level depth at ginning of 09/2007 = 29.0
SS 16	X	<b>A</b>	9-9-14			60-		CLAY (CL) - Greenish gray (GLEY1 5/1), damp, very stiff, low plasticity, +HCL		
SS 17	×		50/3"	4	209.5	65-		SAA except wet, hard, medium plasticity		
SS 18	X	<b>A</b>	23-36-45	20	_0710_	70-		*CLAY, with shell hash (CL)- Pale yellow (2.5Y 8/4) and yellow (2.5Y 8/6), moist, hard medium plasticity, +HCL	,	
SS 19	X	<b>A</b>	13-13-18	23		75-		SAA except pale yellow (5Y 8/2)		
SS 20	X	<b>A</b>	13-17-32	20	194.5_	80-		SAA except pale yellow (2.5Y 8/4), damp		
SS 21	X	<b>A</b>	18-12-20	17	174.3_	85-	-	SAND, silty (SM)- Pale yellow (2.5Y 8/2 and 5Y 8/3), damp, dense, fine grained, contains shell fragments, +HCL	 I	
SS 22	X		24-28-50/5"	17	185.5_	90-		SAA except pale yellow (2.5Y 8/2), very dens	se 	
SS 23	X	<u>*</u>	14-18-22	20		95-		<b>SAND, clayey (SC)</b> - Very pale brown (10YR 8/2), damp, dense, medium grained, +HCL		
SS 24	X	<b>A</b>	18-28-22	18	174.5	100-		SAA	∣ He	d logging by M.
SS 25	X	<b>A</b>	16-22-24	22	174.5_ 170.5_	105-		SAND, with clay (SP-SC)- Very pale brown (10YR 8/2), damp, dense, fine grained, contains shell fragments, +HCL	Be	gin logging by A. ylor
					SITE	V 36 of	_	e Units 3 & 4 COL Project Final Log	HOL	B-1109



GE		TECHNICAL LOC	<u> </u>	OJE(		3 & 4	. CO	JOB NO. SHEET 6141-06-0286 3	NO.	HOLE NO.  B-1109
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>z</del> 2nd 6" <u>O</u> 3rd 6" <u>-</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N V C L	IOTES ON: VATER LEVELS, HARACTER OF PRILLING AND ABORATORY ESTING
SS 26	X	<b>A</b>	10-15-17	23		110-		SAND (SP) - Yellow (2.5Y 8/6), damp, dense medium grained, contains shell fragments, +HCL	2,	
SS 27	X	<b>A</b>	16-16-18	20	159.5	115-		SAA except medium to coarse grained		
SS 28	×	4	50/2"	0	139.3_	120-		NO RECOVERY	V	op of Utley imestone at a depth f 117.0 feet. Vater level depth at eginning of
SS 29		•	50/1"	0	150.5_	125-	ii.V	NO RECOVERY	fe	1710/2007 = 49.0 eet
SS 30	×	•	50/2"	1	144.9	130-		SAND, with clay (SP-SC)- Pale yellow (2.53 8/2), damp, very dense, coarse grained, contains shell fragments, +HCL		
SS 31	X	•	46-34-50/6"	25		135-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/5GY), damp, hard, +HCL	T	op of Blue Bluff Marl at 131.6 feet
SS 32	X	<b>A</b>	12-14-16	27	134.5	140-		SAA except very stiff and contains shell fragments		
SS 33	X	•	16-50/5.5"	22	134.3_	145—		SILT (ML) - Greenish gray (GLEY1 5/5GY) damp, hard, +HCL	,	
SS 34	X	<b>A</b>	16-17-30	27	126.5_	150-		SAA Boring terminated at 150 feet		
					SITE	V	ogtl	e Units 3 & 4 COL Project	Н	OLE NO.
						37 of		Final Log		B-1109



	ΩŦ	ECHNICAL I O	PR	OJEC	СТ				JOB NO.		SHEET NO	).	HOLE NO.
		ECHNICAL LO	▼ '			3 & 4	CC	OL Project	6141-0	06-0286	<b>1</b> OF		B-1110
LOGGE	D BY	M II	C	OOR	DINATES	N 114	1117	70.0 E (22)	11 2	BEGUN	0.6	COMPL	
DRILLE	R	M. Herrera	D	RILL	MAKE AND	IN 114 MODE	417 L	70.9 E 6220 HOLE DIAM		12/6/200 HAMMER SI	<b>U6</b> ERIAL NUME	12/11/ BER	2006 TOTAL DEPTH
		rnett-Gregg Drilling				ME-8		31	nches		165952		150.0
GROUN		DEPTH/EL. GROUND WAT	ER SITI	E:				Va =41 - 121 - 4					
26	55.1	∇ / ▼ /	<u> </u>					Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo 	ro, GA
SAMP. TYPE AND NO.	SAMPLE + O	N-VALUE (SPT) WATER CONTENT % ATT. LIMITS % FINES %	1st 6" -2 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory t of sample b	DN AND CI classification adju- esting data and/or y field geologist/or	sted based on	TION		LEVELS, CTER OF NG AND ATORY
SS		20 40 60 80	4-6-7	21	265.1			SAND, silty (\$4/6), damp, mo	SM)- Stron	ng brown (7.:	5YR	Top of I	Barnwell
1 SS	$\bigwedge$		5-3-3	21		_		SAA except st	rong brown	se, rounded n (7.5yr 5/8)	, loose	0.0 feet	t a depth of
SS 2 SS 3			1-2-2	15		5-		SAA except ye	ellowish re	d (5YR 5/8			
SS 4			2-2-3	14		-		SAA except w	ret				
SS 5	$\bigvee$		2-4-5	13		10		SAA					
SS 6		<b>\</b>	5-5-7	14		10-		SAA except re	eddish yello	ow (5YR 6/8	), medium		
SS		<b>\</b>	5-6-8	12		-		SAA					
7						15-							
SS 8	X	<b>A</b>	6-8-10	15	248.1_	20-		SAND, clayey damp, mediun	(SC)- Rec	ddish yellow unded	 (5YR),		
SS 9		<b>\</b>	6-5-8	16		25—		SAA except ye	ellowish re	d (5YR 5/8)			
SS 10		<b>\</b>	5-6-7	20	233.1_	30-		SAA except yo	ellow (10Y	TR 7/6)			
SS 11	<b>A</b>		3-4-3	27		35-		CLAY (CH) - medium stiff,	Pale yello medium pla	w (5Y 8/3), o asticity, -HC	damp L		
SS 12	X	•	6-7-16	27		40-		SAA except vo	ery stiff, +I	HCL			
SS 13	X	<b>A</b>	8-30-32	27	221.7_	45 —		SILT (ML) - 6 hard, low plas	Greenish gr ticity, +HC	ray (GLEY1 L	5/1), dry,		
SS	X	<b>A</b>	17-33-33	27		- - -		SAA					
PREPA	RED B	Y: A. TAYLOR			SITE	V	ogtle	e Units 3 & 4 C		t		HOLE NO	
REVIEV	VED B	Y: P. DEPREE				38 of	<del>794</del>	Final Log	<u> </u>			R-	-1110



GE	EC	TECHNICAL LO	<u> </u>	OJE( <b>ogt</b> ]		3 & 4	l C(	DL Project   JOB NO.   SH	1EET NO 2 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" 00 3rd 6" 1z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	I	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14					213.1_	-				
SS 15	$\boxtimes$		10-50/3"	12	208.1	55-		CLAY, silty (CL-ML)- Pale yellow (5Y dry, hard, medium plasticity, +HCL	8/3),	
SS 16	X	<b>A</b>	20-30-40	17		60-		*CLAY, with shell hash (CL)- Yellow (8/6), dry, hard, +HCL	2.5Y	
SS 17	X	•	20-23-20	20		65-		SAA except sandy and damp		
SS 18	X	<b>A</b>	28-30-25	17		70-		SAA except pale yellow (5Y 8/4)		Water level depth at end of 12/06/2006 =
SS 19	X	<b>A</b>	19-13-15	15	193.1_	75-		*SAND, silty with shell fragments (SM Pale yellow (2.5Y 8/4), damp, medium de +HCL	ense,	Water level depth at beginning of 12/07/2006 = 15.83 feet
SS 20	X	<b>A</b>	16-16-17	20	188.1_	80-		CLAY, sandy (CH) - Pale yellow (2.5Y 8 and yellow (2.5Y 7/6), damp, hard, mediu plasticity, +HCL	3/3), im	
SS 21	X	<b>A</b>	20-16-18	15	183.1_	85-		*CLAY, with shell hash (CL)- Pale yell (2.5Y 8/4), damp, hard, low plasticity, +F	ow ICL	
SS 22	X	<b>A</b>	10-11-9	20	178.1_	90-		*SAND, clayey (SC)- Yellow (10YR 7/6 damp, medium dense, with shell fragmen +HCL	), ts,	
SS 23	X	<b>A</b>	8-8-8	27	173.1_	95-		CLAY (CH) - Pale yellow (5Y 8/4), dry, stiff, medium plasticity, +HCL	very	
SS 24	_		50/1"	0	168.1_	100-		NO RECOVERY		Top of Utley Limestone at a depth of 97.0 feet
SS 25	X		12-13-50/3"	15	163.1 <sub>_</sub>	105-		SAND, with silt (SP-SM)- Very pale bro (10YR 7/3), wet, very dense, coarse grain rounded, +HCL	wn ed,	
				1	SITE	39 of	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1110</b>



GE	EC	TECHNICAL LO		OJEC ogtl		3 & 4	l Co	OL Project   JOB NO.   SHEET NO.   SHEET NO.   3 OI	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" _ I	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26			50/1"	0	152.1	110-		NO RECOVERY	
SS 27	$\boxtimes$		10-50/2"	10	153.1_	115-		*CLAY, silty, with cemented nodules (CL-ML) - Very pale brown (10YR 8/3), damp, hard, +HCL	
SS 28	X	<b>A</b>	18-19-22	27	147.1 <sub>_</sub>	120-		CLAY (CH) - Greenish gray (GLEY 1 5/1), dry, hard, medium plasticity, +HCL	Top of Blue Bluff Marl at a depth of 118.0 feet
SS 29	X	<b>A</b>	14-16-32	27		125		*CLAY, with shell fragments (CL)- Greenish gray (GLEY1 5/1), dry, hard, +HCL	
SS 30	X		18-20-50/1"	25	133.1_	130-		SAA except greenish gray (GLEY1 6/1)	Water level depth at end of 12/07/2006 = Ground surface
SS 31	×		50/3"	10		135-		CLAY (CH) - Greenish gray (GLEY1 5/1), damp, hard, medium plasticity, +HCL	Water level depth at beginning of 12711/2006 = 37.0 feet
SS 32	X	<b>A</b>	14-22-22	27		140-		SAA	
SS 33	$\boxtimes$		24-50/3"	17		145-		SAA	
SS 34	X	<b>^</b>	15-42-28	17	115.1_	150-		SAA except greenish gray (GLEY1 6/1)  Boring terminated at 150 feet	
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1110</b>



CECTECUNICAL LOC	PROJEC				JOB NO.		SHEET NO	. HOLE NO.
			3 & 4 CO	OL Project	6141-0	06-0286	<b>1</b> OF	
LOGGED BY	COOR	DINATES	N 114401	12 ( F (222	22.0	BEGUN 1/10/200	.=	COMPLETED
B. Mabie	DRILL	MAKE AND		12.6 E 6223 HOLE DIAM		1/19/200 HAMMER SE		1/23/2007 ER TOTAL DEPTH
White-MACTEC			ME-55		nches		331145	150.0
GROUND EL. DEPTH/EL. GROUND WATER S	ITE:							12000
<b>224.9</b>				Vogtle Elect	ric Gene	erating Pla	ant - Wa	ynesboro, GA
A N-VALUE (SPT)  O WATER CONTENT %  Is put 0, 0 or 0,	3rd 6" ≒ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIC (* = field c laboratory to of sample by	lassification adiu		ON	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
20 40 60 80		224.9						
SS   13-8-6   10-12-1   10	14 12	221.7_	5-	SAND, with si 6/8), moist, me grained, nonpl SAA except m  CLAY (CL) - stiff, low plast SAA except gr	astic, -HCl oist to wet Pale yellov icity, +HC	w (5Y 7/3), m L	oist,	Top of Barnwell Group at a depth of 0.0 feet
SS S 6-12-1	2 18	216.9_	10-	very stiff  CLAY, silty (  GLEY1 5/100  plasticity, +HC	———— C <b>L-ML)</b> - GY), moist	—————— Greenish gray , very stiff, lo	 / w	
SS 6-9-8 SS 50/3"		211.9_		SAND, with c	ale yellow s — — — —			
7 SS 8	19 15	203.2_	20	SAA except ye medium graine	+HCL ellow (10Y			
SS 9 7-9-12	2 18	198.2_	25—	CLAY, silty (or moist, very still fragments, +Ho	CL-ML)- ff, low plas CL	Pale yellow (sticity, contain	5Y 7/4), ns shell	
SS 10 10-13-1	19 18	193.2_	30-	CLAY (CL)- hard, low to m hash, +HCL	Yellow (10 edium plas	OYR 7/6), mosticity, contain	ist, ns shell	
SS 11 8-11-1	3 13		35-	SAND, with c 8/6), moist, mo to medium gra	lay (SP-SO edium dens ined, conta	C)- Yellow (2 se, low plastic ins shell hash	.5Y city, fine n, +HCL	
SS 12 25-22-1	18 17		40-	SAA except de	ense			
SS 13 8-12-1	1 16	178.2_	45-	SAA except ye nonplastic to le fragments	ellow (10Y ow plastici	R 7/8), medity, contains s	ım dense, hell	
SS 20-14-1 PREPARED BY: A. TAYLOR	18 16	SITE	Vogtl	SAND, clayey wet, dense, fin e Units 3 & 4 Co	OL Projec	e yellow (2.5 low plasticity	Y 7/4), , +HCL	HOLE NO.
REVIEWED BY: P. DEPREE			41 of 724	Final Log	5			B-1111



GE	OTECHNICAL LO	<u> </u>	OJE(		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 OF			
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" 0 3rd 6" 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING		
14 SS 15	7	15-17-22	16	168.2	- - - - 55—		SAA except yellow (10YR 8/6), moist, medium dense, contains shell hash			
SS 16		21-17-50/4"	13	108.2_	60-					
SS 17	7	10-13-13	15		65—		SAA except yellow (2.5Y 7/6), medium dense, low plasticity, contains shell fragments			
SS 18		50/2"	0.5	153.4_	70-		SAA except wet, very dense, nonplastic to low plasticity, fine grained	Water level depth at beginning of 1/22/2007 = 54.6 feet Installed 3" steel casing to a depth of		
SS 19		50/2"	0.125		- - 75—		SAND (SP) - Pale yellow (2.5Y 8/2), dry, very dense, nonplastic, contains shell fragments, +HCL	70.0 feet Top of Utley Limestone at a depth of 71.5 feet Loss of circulation at a depth of 74.5 feet		
SS 20		50/2"	2	143.2_	80-	4442	SAA	Loss of circulation at a depth of 79.5 feet Advanced casing to		
SS 21	<b>A</b>	8-12-14	18		85—		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/10GY), moist, very stiff, low plasticity, contains shell fragments, +HCL	80.0 feet Top of Blue Bluff Marl at a depth of 81.75 feet Water level depth at end of 1/22/2007 = 77.6 feet		
SS Z	•	7-11-18	18	133.2_	90-		SAA 	Water level depth at beginning of 1/23/2007 = 78.6 feet		
SS Z	<b>A</b>	15-30-36	18	128.2_	95—		CLAY, silty with sand (CL-ML)- Greenish gray (GLEY1 5/10GY), moist, hard, fine grained SAND, low plasticity, contains shell fragments, +HCL			
SS 24		31-50/5"	14		100-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/10GY), moist, hard, low plasticity, contains shell fragments, +HCL			
SS ×		19-50/3"	12	118.2_	- 105—		SAA 			
				SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1111</b>		



GE		TECHNICAL LO	~	OJE(		3 & 4	. CO	JOB NO.   SHEET   DL Project   6141-06-0286   3	NO. DF <b>3</b>	HOLE NO. <b>B-1111</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" 7 2nd 6" O 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOT WAT CHA DRIL LAB	ES ON: ER LEVELS, RACTER OF LING AND ORATORY TING
SS 26	X	▲	10-23-29	18		110-		CLAY (CL) - Greenish gray (GLEY1 5/10GY), moist, hard, low plasticity, contains shell fragments, +HCL		
SS 27	X	<b>A</b>	26-18-23	18		115-		SAA		
SS 28	X	•	10-50/2"	13		120-		SAA except greenish gray (GLEY1 6/5GY)		
SS 29	X	<b>A</b>	8-12-18	18		125-		SAA except very stiff		
SS 30	X	<b>A</b>	19-17-19	18		130-		SAA except hard, contains no shell fragments		
SS 31	X	<b>A</b>	8-29-39	18		135-		SAA		
SS 32	X	<b>A</b>	7-11-12	18		140-		SAA except very stiff, contains some shell fragments		
SS 33	X		15-50/5"	14	78.2_	145-		SAA except hard, contains abundant shell hash		
SS 34	X	•	10-12-16	18	74.9_	150-		SAND, silty, clayey (SC-SM)- Greenish black (GLEY 1 3/10Y), moist, medium dense, fine grained, nonplastic to low plasticity, -HCI Boring terminated at 150 feet	Top Form of 14	of Still Branch nation at a depth 16.75 feet
			<u> </u>		SITE	43 of		e Units 3 & 4 COL Project Final Log	HOLE	NO. <b>B-1111</b>



COORDINATES   SHEET NO.   SH													
		* *			3 & 4	CO	DL Project	6141-0		I OF		B-1112	
	S. Woodham			]					1/9/200		1/9/2	2007	
DRILLER		D	RILL	MAKE AND			HOLE DIAM			ERIAL NUMBI	ER	TOTAL DEPTH	
GROUNE	White-MACTEC  DEL. DEPTH/EL. GROUND WATE	ER SITE	=-	C	ME-	55	3 1	nches		331145		23.0	
213	$\nabla$ $I$	LIK OITE					Vogtle Elect	ric Gen	erating Pl	ant - Way	ynesbo	oro, GA	
IYPE	▲ N-VALUE (SPT)  ○ WATER CONTENT %	N-COUNT	RY (in)	FION	N FT	SOIL					NOTES WATER	S ON: R LEVELS,	
SAMP. TYPE AND NO. SAMPLE	+ ATT. LIMITS %  □ FINES %	1st 6" 2nd 6" 3rd 6"	RECOVERY	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC  (* = field c laboratory t of sample b	lassification adiu			DRILLII	ACTER OF NG AND AATORY NG	
22	20 40 60 80	4.0.5		213.7					(27.5)				
SS X SS X		4-8-5 4-5-6	18	212.7_	- - -	XX	SAND, silty w brown (10YR coarse grained SAND, silty w			/ 1	Ton of	Fill at a depth eet Barnwell at a depth of	
SS 2 SS 3	<b>A</b>	3-2-3 4-6-6	15 15	208.2_	5-	) 711	SAND, silty w 4/6), dry, med SAA except vi traces of CLA	ose		tains	1.0 1661		
SS 4 SS 5	<b>A</b>	4-3-10	12	205.7_	- -		SAND, silty, c (10R 5/3), dam CLAY, sandy 5/3), damp, sti						
5 SS X	<b>^</b>	1-1-2	17	203.2_	10-		5/3), damp, sti ————————————————————————————————————						
SS 7		0-1-1	8		- - 15-		SAA except ye fragments						
SS 8	•	4-4-4	14	196.7_	20-		SAND, clayey loose, contains	(SC)- Yes	llow (5Y 8/6 ments	), damp,			
				190.7_	-		Boring termina T. McCallum due to concern switchyard.	ated at 23 1 with South is about pro	Feet. Drilling ern Nuclear oximity to ex	halted by Company isting			
	ED BY: A. TAYLOR ED BY: P. DEPREE			SITE	V	ogtl	e Units 3 & 4 Co Final Log		t		HOLE NO	o. -1112	



GFO	OTECHNICAL LO	<u> </u>	OJEC		2.0.4.6	YOL D	JOB NO.	06.0206	SHEET NO.	HOLE NO.
LOGGED		•		DINATES	3 & 4 (	COL Project	6141-	06-0286 BEGUN	<b>1</b> OF	3 B-1112A COMPLETED
LOGGED	L. Davis		OOK		N 11442	219.4 E 6225	561 5	2/28/200	7	3/2/2007
DRILLER		D	RILL	MAKE AND		HOLE DIAM			RIAL NUMBE	
	Warren-A.E. Drilling			<b>C</b> ]	ME-75(	3 1	<b>Inches</b>		328848	150.0
GROUND		ER SITI	E:				. ~			
227	7.1					Vogtle Elect	ric Gen	erating Pla	ant - Way	nesboro, GA
) PE	▲ N-VALUE (SPT)	N-COUNT	(in)	N	□   <sub>q</sub>	3				NOTES ON:
SAMP. TYPE AND NO. SAMPLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTION			ION	WATER LEVELS, CHARACTER OF
SAM AN SA			ECO	ELĘ N	DEP.	laboratory of sample b	classification adju- testing data and/o by field geologist/	sted based on r re-examination engineer )		DRILLING AND LABORATORY TESTING
	☐ FINES % 20 40 60 80		LE	227.1						12311110
SS	40 00 00	7-8-8	10	227.1		SAND, silty v 5/6), damp, m	vith gravel	(SM)- Red (	10R	Top of Barnwell
$\begin{vmatrix} 1 \\ SS \end{vmatrix}$	<b>A</b>	10-11-15	14	223.9_	- 1	SAA except li	ght red (10	R 7/6)	, -ncl	Group at a depth of 0.0 feet.
$\begin{bmatrix} 2 & 2 \\ SS & 3 \end{bmatrix}$	<b>A</b>	7-13-16	12	223.9_	5—	SAND, silty ( medium dense	SM)- Red e, nonplasti	(2.5YR 5/6), c, -HCL	moist,	
SS 4	<b>A</b>	2-8-14	14	221.0_	-	SAND, with s	ilty clay (\$ 7/6), moist,	SP-SC)- Redo medium den	lish se,	
SS X	<b>A</b>	4-4-5	16		10-	nonplastic, -H SAA except re plasticity	ed (2.5YR	4/6), loose, lo	w	
	<b>A</b>	6-10-14	17	2141	-	SAA except re				
SS X	<b>A</b>	16-25-23	20	214.1_	1.5	SAND, silty ( 6/8), moist, de	SM)- Redo	lish yellow (5	YR SYR	
				210.1_	15—					
ss 8	<b>A</b>	25-35-28	18	205.1	20-	SAND, with s yellow (5YR o nonplastic, -H	5/6), damp.	SP-SC)- Redovery dense,	lish	
SS 9	<b>A</b>	8-10-13	20	_00.1_	25-//	SAND, clayed damp, medium	(SC)- Lig n dense, mo	tht red (2.5Yledium plastic	R 7/8), ity, -HCL	
SS X	<b>A</b>	5-6-9	18		30-	SAA except re low plasticity	eddish yello	ow (7.5YR 6/	6), moist,	
SS X	<b>A</b>	3-4-5	21	190.1	35-	SAA except re medium plasti	eddish yello city	ow (5YR 7/8)	, loose,	
SS X	<b>A</b>	5-4-4	10	190.1_	40-	SAND, with s yellow (7.5YF -HCL	ilty clay (\$ 7/8), dam	SP-SC)- Redop, loose, non	lish plastic,	
SS X	<b>A</b>	2-3-1	4		45—	SAA except replasticity	eddish yello	ow (7.5YR 6/	8), low	
ss X	<b>A</b>	1-2-3	11			SAA except re	eddish yello ow plastici	ow (7.5YR 7/ ty	8), moist,	
PREPARE	ED BY: A. TAYLOR	•		SITE	Vog	tle Units 3 & 4 C	OL Projec		ŀ	HOLE NO.
REVIEWE	ED BY: P. DEPREE					_ Final Log	<u> </u>			B-1112A



GE	EOTECHNICAL LOC	<u> </u>	OJEC Ogtl		3 & 4 (	JOB NO. SHEET NO. COL Project 6141-06-0286 2 OF	
SAMP. TYPE AND NO.	11 1 1	1st 6" -7 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/enginer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS 15	$X^{\blacktriangle}$	3-2-2	10		55—	SAA except medium grained, low plasticity	
SS 16		1-3-2	5	170.1_	60-	SAND, with silt (SP-SM)- Yellow (10YR 7/6), moist, loose, medium grained, nonplastic, -HCL	
SS 17		WOH/6"-2-2	14	160.1	65	SAA except very pale brown (10YR 8/4)	
SS 18		<b>W</b> OR/18"	7		70-	SAND, with silty clay (SP-SC)- Yellow (10YR 7/6), moist, very loose, medium grained, nonplastic, -HCL	
SS 19		WOR/18"	4	149.6	75	SAA	
SS 20		18-5-4	18	149.6_ 148.1_ 145.1_	80-	*SILT, sandy with cemented layers (ML)- Very pale brown (10YR 8/4), moist, loose, nonplastic, contains fragments of parent material, +HCL CLAY, silty, sandy (CL-ML)- Grayish brown	
SS 21		5-9-12	24		85—	(VI (2) 5 V 5/2) moset etitt medium plaeticity (II)	Top of Blue Bluff Marl at a depth of 82.0 feet
SS 22		15-19-22	23	135.1_	90-	SAA except dark greenish gray (4/5GY), hard, nonplastic to low plasticity, contains shell hash	Water level depth at end of 02/28/2007 = Ground surface
SS 23		10-15-25	24		95—		Water level depth at beginning of 3/1/2007 = 70 feet
SS 24		11-17-50/5"	23		100-	SAA except greenish gray (GLEY1 6/5GY)	
SS 25	×	50/5"	8	0:	105—	SAA except greenish gray (GLEY1 6/10Y), moist, nonplastic to low plasticity, contains shell fragments	
				SITE	Vo	tle Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1112A</b>



GE		OTECHNICAL LOC	<u> </u>	OJE(		3 & 4	C		EET NO.	
SAMP. TYPE AND NO.	SAMPLE		1st 6" - 7 2nd 6" 00 3rd 6" 12	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>A</b>	30-17-21	28		110-		SAA except light greenish gray (GLEY1 7/10Y), damp, low plasticity, contains minshell hash	ior	
SS 27	X	<b>A</b>	30-31-45	26		115-		SAA except greenish gray (GLEY1 6/10Y)	)	
SS 28	X	<b>A</b>	20-15-40	26	105.1	120-		SAA except light greenish gray (GLEY1 7/10Y)		
SS 29	X	<b>A</b>	31-46-30	26		125-	**************************************	SILT, with sand (ML)- Light greenish gra (GLEY1 7/10Y), damp, hard, nonplastic, +	ay +HCL	
SS 30	X	<b>A</b>	11-17-17	27	100.1_	130-		CLAY, silty with sand (CL-ML)- Light greenish gray (GLEY1 7/10Y), damp, hard nonplastic, +HCL	 d,	
SS 31	X	A	15-17-21	25		135—		SAA		
SS 32	X	<b>A</b>	26-28-19	25	90.1_	140-		CLAY, silty (CL-ML)- Light greenish gra (GLEY1 7/5GY), moist, hard, medium plasticity, +HCL	ay	
SS 33	X	<b>A</b>	9-11-11	23	85.1_	145—		SILT, with sand (ML)- Light greenish gra (GLEY1 7/5GY), damp, very stiff, low plasticity, +HCL	ay	
SS 34	X	<b>A</b>	2-8-12	18	80.1_ 77.1_	150-		SAND, silty (SM)- Very dark greenish gra (GLEY2 3/10Y), moist, medium dense, nonplastic to low plasticity, -HCL Boring terminated at 150 feet	ay	Top off Still Branch Formation at a depth of 147.0 feet
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	1	HOLE NO. <b>B-1112A</b>



GE	ΞO	TECHNICAL LOG		DJEC		2 8. 1	CC	N. Duningt	JOB NO.	06-0286	SHEET NO		HOLE NO.
LOGG					DINATES	3 & 4	C	OL Project	0141-0	BEGUN	<b>1</b> OF	COMPL	<b>B-1113</b> ETED
DRILL	ED.	B. Mabie	DE	2II I	MAKE AND	N 114	390	1.4 E 6202 HOLE DIAM		2/13/200 HAMMER SE		2/14/2	2007  TOTAL DEPTH
		White-MACTEC		VILL		ME-5			nches		331145	LIX	170.0
GROU	ND E <b>50.</b> 0	$\nabla$ /	SITE	:				Vogtle Elect	ric Gene	rating Pl	ant - Wa	vnesho	ro. GA
								v ogete Elect	iic Gene	ruving 1 r		y nesso	10, 011
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  ▲ 20 40 60 80	3rd 6" A	RECOVERY (in)	ELEVATION FEET ON FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC  (* = field c laboratory te of sample by	ON AND CL lassification adjust esting data and/or y field geologist/o	sted based on	ION		LEVELS, CTER OF IG AND ATORY
SS 1	M.	3-	5-6	12	230.0	_		*SAND, with damp, medium	silt (SP-SN	M)- Red (2.5)	YR 5/8), onplastic.	Top of E	Barnwell t a depth of
SS 2 SS		10	-8-9	15		=		-HCL' SAA	,		1	0.0 feet	<b></b> .
SS 3	<b>X</b> '	4-	4-4	12		5-		SAA except re	d (2.5YR 4	1/8), moist, lo	oose		
SS 4		3-	3-3	13		-		SAA					
SS		<b>A</b> 3.	4-5	10		-		SAA					
5		<b>A</b> 3.	4-5	8		10-		C A A	.11 : - 1 - 1	(10VD)	5 /4 )		
SS 6	X		7-5			-		SAA except ye to medium gra					
SS 7	X	4-	6-7	10		15-		SAA except ye dense, fine gra	ellowish red ined	d (5YR 5/6),	medium		
					233.0_	- -							
SS 8		] ▲ 4-	6-8	10		20-		*SAND (SP)- medium dense	Red (2.5Y, fine grain	R 4/8), damped, nonplast	o, ic, -HCL		
SS 9	X	5-	6-8	8		25		SAA					
SS 10		<b>3</b> ▲ 4.	5-7	6	210.0	30-		SAA					
SS 11	X	4-	5-4	11	218.0_	35—		*CLAY, with (10YR 6/6), da plasticity, -HC	sand (CL) amp, stiff, r L	- Brownish nonplastic to	yellow low		
SS 12	X	-w(	OH/12"	7	208.0	40-		SAND, silty (S 6/6), wet, very -HCL	SM)- Brow loose, fine	rnish yellow grained, not	(10YR nplastic,		
SS 13	X	₩o	H/18"	10	203.2_	45—		SILT, with sa (2.5Y 6/2), we	nd (ML)- t, very soft	Light brown, nonplastic,	ish gray -HCL		
SS	X	<b>▲</b> 22-	33-13	16		-		CLAY, silty w (2.5Y 7/2), we	vith sand (	<b>CL-ML)-</b> Li	ght gray		
		BY: A. TAYLOR			SITE	V	ogtl	e Units 3 & 4 Co	OL Projec	t piasticity, c	contains	HOLE NO	
REVIE	WED	BY: P. DEPREE				48 of	<del>724</del>	Final Log	<u> </u>			B-	-1113



GE	EC	TECHNICAL LO	<u> </u>	OJEC ngtl		3 & 4	. CO	DL Project   JOB NO.   SI	HEET NO <b>2</b> OF	
SAMP. TYPE AND NO.	SAMPLE	+ ATT. LIMITS %  □ FINES %	1st 6" - 7 2nd 6" O 3rd 6" G	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATIOI  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40 60 80			198.0_	-		shell hash, +HCL		Installed 3" steel casing to a depth of 50.0 feet
SS 15	X	<b>A</b>	3-3-4	18		55—		CLAY, silty (CL-ML)- Light gray (5Y moist, stiff, low plasticity, contains scarc fragments, +HCL	7/2), ce shell	
SS 16	X	<b>A</b>	2-3-5	18		60-		SAA		
SS 17	X	<b>A</b>	3-4-4	18		65—		SAA except medium stiff		
SS 18	X		6-13-50/2"	14	170.0	70-		SAA except hard		
SS 19	X		25-50/5"	8	178.0_ 173.0_	- - - 75—		CLAY, silty with sand (CL-ML)- Pale (2.5Y 8/2), wet, hard, nonplastic to low plasticity, contains abundant shell hash,	yellow +HCL	
SS 20	X	<b>A</b>	6-12-23	18		80—		SAND, with silty clay (SP-SC)- Light yellowish brown (2.5Y 6/4), wet, dense, nonplastic to low plasticity, contains shell+HCL	ll hash,	
SS 21	X	<b>A</b>	7-20-24	18		85—		SAA		Water level depth at end of 2/13/07 = Top of Casing
SS 22	X	<b>A</b>	18-19-25	15		- - 90-		SAA except light gray (2.5Y 7/2)		Water level depth at beginning of 2/14/07 = 31.42 feet
SS 23	X	<b>A</b>	14-10-18	15		- - 95—		SAA except medium dense, fine grained		
SS 24	X	<b>A</b>	11-18-18	16		100-		SAA except dense		
SS 25	X	<b>A</b>	14-14-14	15		105-		SAA		
					143.0_ SITE	V	ogtlo	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1113</b>



GE	EC	OTECHNICAL LO	<u> </u>	OJE(		3 & 4	· C(	DL Project   JOB NO.   SHEET NO.   SHEET NO.   3 OR	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>A</b>	24-20-30	18		110-		CLAY, silty (CL-ML)- Light gray (2.5Y 7/2), wet, hard, low plasticity, contains shell hash, +HCL	
SS 27	X	<b>A</b>	12-14-37	18	133.0	115—		SAA	
SS 28	X	<b>A</b>	7-8-12	18	128.0	120-		SAND, with clay (SP-SC)- Yellow (10YR 7/6), wet, medium dense, nonplastic to low plasticity, contains shell fragments, +HCL	
SS 29	X	<b>A</b>	9-11-13	18	123.0	125—		SAND, with silty clay (SP-SC)- Pale brown (10YR 6/3), wet, medium dense, fine grained, nonplastic to low plasticity, contains shell fragments	
SS 30	X	<b>A</b>	10-11-13	16	118.0	130-		SAND, with silt (SP-SM)- Pale brown (10YR 6/3), wet, medium dense, fine grained, nonplastic, contains shell fragments, +HCL	
SS 31	X	<b>^</b>	18-36-43	9	113.0	135—		SAND (SP) - Pale brown (10YR 6/3), wet, very dense, fine to medium grained, nonplastic, contains shell fragments, +HCL	
SS 32	X		50/4"	2	108.0	140-		SAND, with silty clay (SP-SC)- Pale brown (10YR 6/3), wet, very dense, nonplastic to low plasticity, contains shell fragments and cemented SAND grains, +HCL	Top of Utley Limestone at a depth of 137.0 feet
SS 33	×		50/3"	0	100.0_	145—		NO RECOVERY	
SS 34	_		50/1"	0	98.2	150-		NO RECOVERY	
SS 35	X	•	10-50/5"	18	3.32	- - 155—		CLAY, silty (CL-ML)- Dark greenish gray (GLEY1 4/10GY), moist, hard, low plasticity, contains scarce shell fragments, +HCL	Top of Blue Bluff Marl at a depth of 151.75 feet
SS 36	×	•	50/5"	5		- - 160-		SAA	
SS	X	<b>A</b>	13-18-43	18	SITE	- - V	ogtl	SAA e Units 3 & 4 COL Project	HOLE NO.
						50 of	_	Final Log	B-1113



GEOTECHNICAL		OJECT ogtle Units	3 & 4 C	JOB NO. SHEET NO. DL Project 6141-06-0286 4 OF	
A N-VALUE (SPT)  O WATER CONTENT  + ATT. LIMITS %  FINES %	1si 2n 3rc	RECOVERY (in) ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
37 🗵	30		165		
SS 38	17-15-28	80.0	170	Boring terminated at 170 feet	Water level depth at end of 2/14/07 = 38.42 feet
		SITE	Vogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1113</b>



GE	<b>EO</b>	TE	CI	HNI	CAL	LO	C	OJEC		2 0_ 1		AL D	wa <b>:</b> aat	JOB NO.	06 0206	SHEET NO		HOLE NO.
LOGG							•		e Units	3 & 4		JL P	roject	0141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	<b>B-1116</b> ETED
DRILL	ED.		M	. Her	rera			DII I	MAKE AND	N 114			E 6212		12/14/20 HAMMER SE		12/15/	2006 TOTAL DEPTH
DINIEL		Bur	nett	-Gre	gg Dri	illing		INILL		ME-8				Inches		165952	DLIX	138.5
GROU		L.		PTH/EL		ND WAT	TER SIT	E:				Vog	tla Flaat	tuia Cana	mating DI	ont Wa	rmacha	mo CA
	11.0	•	Ţ	/								Vog	He Elect	iric Gene	erating Pl	ant - wa	ynesbo	ro, GA
SAMP. TYPE AND NO.	SAMPLE	○ \ + # □ F	VATE	LIMITS	NTENT	Г %	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DE	( * = field (	ON AND CL classification adjus- testing data and/or by field geologist/or	LASSIFICAT sted based on r re-examination engineer)	TION		LEVELS, CTER OF IG AND ATORY
SS 1			<u>20</u>	40			1-1-1	20	201.8			<b>SA</b> !	ND, with s	silt (SP-SM	l)- Brownish oose, fine gr	yellow ained	Top of E	Barnwell t a depth of
SS 2		Ш					1-1-1	21		-		rour	ided	amp, very r	oose, iiie gi	umou,	0.0 feet	t a depth of
SS 3		<b>\</b>			:		1-2-3	23		5-		SAA wet,	A except li loose	ight yellowi	ish brown (10	0YR 6/4),		
SS		D					2-2-4	15		-		SAA	A except v	ery pale bro	own (10YR 7	7/4), damp		
4 SS				<b>A</b>			5-15-22	25		-		SAA	A except d	ense				
5 SS		0 [	: :	<b>A</b>			15-18-21	27	251.3_	10-		*64	ND alas				<u> </u>	
6	X	$\circ$					13 10 21	2,		-		dam	ip, dense,	medium gra	ed (2.5YR 4/ ained, rounde	o), ed		
SS 7	X	0					14-18-22	25		15-		SAA	A					
SS 8	X	C	<b>△</b>	<b>A</b>			10-14-18 15-17-20	14		20-		SAA						
SS 10	X		•				10-10-20	20	234.8_	30-		CLA redo (5Y	<b>AY, with</b> slish yellov 8/2), dam	sand (CL)- v (7.5YR 6/ p, very stift	Red (2.5YR 8), and pale f, medium pl	4/8), yellow asticity	-	
SS 11	X	<b>A</b> O					5-5-5	13	229.8_	35-		* <b>SA</b> (10) subi	ND, clayo YR 5/8), d counded	ey (SC)- Yo amp, loose,	ellowish brov , medium gra	wn ined,		
SS 12		•					2-2-3	18	219.8	40-		<b>SAN</b> 7/4)	ND, with s , wet, loos	silt (SP-SM se, medium	I)- Pale yello grained	w (2.5Y		
SS 13	X .	<b>A</b>					6-3-5	27	214.8	45-		CL <sub>a</sub> med	AY (CL)- lium stiff,	Pale yellov medium pla	w (5Y 8/3), dasticity, +HC	lamp,		
SS		<b>A</b>					3-3-4	27		- -		CL/ dam	AY, silty (	(CL-ML)-	Pale yellow (	(5Y 8/3), y, +HCL		
				AYLOR EPREE					SITE	V	ogtl		s 3 & 4 C nal Lo	OL Projec g	t		HOLE NO	-1116
										52 of	724						-	



GE	EC	OTECHNICAL LO	~	OJE(		3 & 4	C	JOB NO. SHEET N OL Project 6141-06-0286 2 o	
/S	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" - z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS 15	X	<b>A</b>	2-3-4	27		- - - - 55—		SAA	
SS 16	X	<b>A</b>	4-4-3	27	199.8_	60-		SAA except pale yellow (5Y 7/4)	
SS 17	X	<b>A</b>	24-26-25	17	199.8_	65-		*CLAY, with shell hash (CL)- Pale yellow (5Y 8/2), damp, hard, +HCL	
SS 18	X	<b>A</b>	8-4-6	25	_	70-		CLAY, silty (CL-ML)- Pale yellow (5Y 8/3), damp, stiff, medium plasticity, +HCL	
SPT 19	X	<b>A</b>	7-12-20	26	184.8_	75—		SAA except hard, contains shell fragments	
SS 20	X	•	11-11-9	22	179.8_	80-		*CLAY (CL)- Pale yellow (5Y 8/2), damp, very stiff, contains shell fragments, +HCL	-
SS 21	X	<b>A</b>	10-14-16	19	174.8_	85— 85—		*CLAY, sandy (CL)- Pale yellow (5Y 8/2), damp, very stiff, low plasticity, contains shell fragments, +HCL	_
SS 22	X	<b>A</b>	12-14-24	22	169.8_	90- -		SAND, with clay (SP-SC)- Very pale brown (10YR 8/2), damp, dense, fine grained, subrounded, +HCL	_
SS 23	X	<b>A</b>	10-16-12	21	164.8_	95— 		*CLAY, sandy (CL)- Very pale brown (10YR 8/2), damp, very stiff, contains shell fragments, +HCL	_
SS 24	X	<b>A</b>	13-16-13	21		100-		SAND, clayey (SC)- Pale yellow (5Y 8/2), wet, medium dense, fine grained, contains shell fragments, +HCL	Water level depth at end of 12/14/06 = Ground surface
SS 25	X	<b>A</b>	30-25-27	17	154.8_ SITE	105-		SAA except pale yellow (2.5Y 8/2), dry, very dense	Water level depth at beginning of 12/15/06 = 27.0 feet  HOLE NO.
					JITE	53 of		e Units 3 & 4 COL Project Final Log	B-1116



GE	EC	TECHNICAL LO	<u> </u>	OJE(		3 & 4	l C(	JOB NO. SHEET NO. SHEET NO. 3 O		HOLE NO. <b>B-1116</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -7 2nd 6" O 3rd 6" ユ	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	WAT CHAI DRIL	ES ON: ER LEVELS, RACTER OF LING AND DRATORY TING
SS 26	X	<b>A</b>	13-12-14	13	149.8_	110-		SAND, silty (SM)- Pale yellow (2.5Y 8/3), wet, medium dense, medium grained, rounded, +HCL		
SS 27	$\boxtimes$		13-50/2"	14		- - 115—		SAND, clayey (SC)- Pale yellow (2.5Y 8/3), wet, very dense, medium grained, rounded, +HCL		
SS 28		•	50/0"	0	144.8_	120-	<i>!.]:/</i>	NO RECOVERY	Top of Lime of 11	of Utley stone at a depth 7.0 feet
SS 29	X		WOH/18"	27	139.8_	125-	-	SILT (ML) - Light yellowish brown (2.5Y 6/4) and brownish yellow (10YR 6/8), damp, very soft, -HCL	Loss a dep	of circulation at th of 122.0 feet
SS 30	X		13-17-50/4"		134.8_	130-	- - -	*SILT (ML)- Greenish gray (GLEY1 5/1), dry, hard, contains Limestone fragments +HCL	Top o Marl 127.0	of Blue Bluff at a depth of feet
SS 31	X	<b>A</b>	22-25-37	27	129.8_	135—		CLAY (CL) - Greenish gray (GLEY1 5/1), dry, hard, medium plasticity, contains shell fragments, +HCL		
SS 32		•	50/0"	0	124.8_ 123.3_	-	-	NO RECOVERY Boring terminated at 138.5 feet		
					SITE	<b>16.</b>	70-1	a Unite 2 & 4 COL Product	HOLE	NO.
					JIIL	54 of		e Units 3 & 4 COL Project Final Log	INOLE	B-1116



		PR	OJEC	CT			JOB NO.		SHEET NO		HOLE NO.
GE	OTECHNICAL LO	V.	ogtl	e Units	3 & 4 C	OL Project	6141-	06-0286	<b>1</b> OF		B-1117
LOGGED		С	OOR	DINATES				BEGUN	•	COMPL	
DRILLER	G. Pillappa		DILI	MAKE AND		90.8 E 6210		1/31/200	<b>)7</b> ERIAL NUMB	2/2/2	007
DRILLER	Banks-MACTEC	ا	KILL		ME-550		Inches		337153	EK	149.3
GROUNE	EL. DEPTH/EL. GROUND WAT	ER SITI	E:	C	WIE-330		inches		33/133		147.5
263	<b>3.9</b>					Vogtle Elect	tric Gen	erating Pl	ant - Wa	ynesbo	ro, GA
닕 .	▲ N-VALUE (SPT)	N-COUNT	(ji	Ζ.	E တွ					NOTES	ON:
<u>E</u> S	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ER/	ATIC EET	를	DESCRIPTION		I ASSIEICAT	ION		R LEVELS, CTER OF
SAMP. TYPE AND NO. SAMPLE	+ ATT. LIMITS %	3. 2. 2.	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN F	( * = field	classification adju	isted based on	ION	DRILLIN	NG AND
8	☐ FINES %		REC	□	当   <sup>©</sup>	of sample l	oy field geologist/	r re-examination (engineer )		LABOR TESTIN	
	20 40 60 80	111	1.5	263.9	7.11						
SS 1		1-1-1	15		- 1	<b>SAND, with</b> s (10YR 6/6), d	silt (SP-SM ry, very loc	<b>l)-</b> Brownish ose, fine graii	yellow ned,	Top of I Group a	Barnwell t a depth of
$\begin{bmatrix} ss \\ 2 \\ ss \\ 3 \end{bmatrix}$		1-1-1	18		111	nonplastic SAA				0.0 feet	
$\int_{0}^{\infty} s$	<b>^</b>	1-2-2	10		- 11	SAA except d	amp				
1 1		2-2-2	11		5-						
$\begin{bmatrix} SS \\ 4 \end{bmatrix}$		2-2-2	11		- 1	SAA					
ss	<b>A</b>	3-4-9	10.5		11	SAA except v medium dense	ery pale br	own (10YR 7	7/3),		
5				253.4_	10	¥					
$\begin{bmatrix} SS \\ 6 \end{bmatrix}$		13-20-18	13			SAND, clayed dense, fine gra	y (SC) - Red	d (2.5YR 4/8 plasticity	), damp,		
ss		18-18-17	11			SAA		g			
7		10 10 17	**		15-//	SAA					
					-//						
		7-10-9	11		20 1/	SAA except n CLAY seams	noist, medi	um dense, co	ntains		
					20-//						
SS X	<b>A</b>	5-2-8	13			SAA except y coarse grained	ellowish re	ed (5YR 5/8),	fine to		
9 1					25	coarse grained	1				
ss		4-8-9	14			SAA					
10					30-	57.11					
				231.9_							
		225			- 1	~					
SS 11		3-3-5	12		35-	SAND, with o	clay (SP-SO ose, low pl	C)- Yellow (! asticity, cont	IOYR ains traces		
						of phosphates					
SS X	<b>^</b>	3-3-3	18			SAA except p	ale yellow	(5Y 8/2), -He	CL		
12					40-						
				221.9_		<del> </del>					
ss 🗸	<b>A</b>	8-11-11	18			CLAY, silty	CL-ML)-	Pale vellow	(5Y 7/4).		
13					45-	CLAY, silty ( dry to damp, v contains trace	very stiff, n s of shell fr	nedium plasti agments, +H	city, ''		
								= *			
		7-14-12	18		-	SAA	mo.om:-1.	(CLEVI 5	/5C) 1-		
SS		/-14-12	10	CITE		SAA except g			**	1101 5 113	
	ED BY: A. TAYLOR ED BY: P. DEPREE			SITE	Vogt	le Units 3 & 4 C Final Lo		et		HOLE NO	-1117
LYCAICAAC	LO DI.II. DEI NEL				55 of 724		<u> </u>			D.	<u> </u>



GE	OTECHNICAL LO	$\frown$	OJEC ogtl		3 & 4	CC	JOB NO. SH DL Project 6141-06-0286	HEET NO	
SAMP. TYPE AND NO.	Mater Content %  Hand Hand Hand Hand Hand Hand Hand Hand	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14									
SS \\\ 15 \\\	<b>A</b>	7-8-8	18		55—		SAA except pale yellow (5Y 7/4)		
SS 2	X	16-50/3"	7	201.0	60-		SAA except pale yellow (5Y 7/3), hard, contains many shell fragments		
SS 17	<b>A</b>	23-29-29	12	201.9_	65		SAND, clayey (SC)- Yellow (2.5Y 7/6), to damp, very dense, fine to medium grar low plasticity, contains many shell fragm+HCL	dry ined, nents,	
SS 18	<b>A</b>	7-23-35	16	191.9	70		SAA except pale yellow (5Y 8/3), contaitrace shell fragments with cemented SAN	ins ND	
SS 19	<b>A</b>	12-13-12	18	186.9_	75		SAND, with clay (SP-SC)- Pale yellow 8/2), dry to damp, medium dense, fine gr low plasticity, contains trace of phosphat cemented grains, +HCL	(5Y rained, te and	
SS 20 2	<b>A</b>	10-12-18	12	100.5_	80		SAND, clayey (SC) - Pale yellow (5Y 8/dry to damp, dense, fine to coarse grained plasticity, contains traces of phosphate grand shell fragments, +HCL	(3), d, low rains	
SS 5	<b>A</b>	9-11-12	13		85		SAA except olive yellow (2.5Y 6/8), med dense	dium	
SS \\ 22 \\ \\ 22 \\ \\ \\ \\ \\ \\ \\ \\	<b>A</b>	30-13-20	15		90-		SAA except pale yellow (2.5Y 8/4), dens to medium grained, contains cemented S.	se, fine AND	
SS \\ 23	<b>A</b>	8-7-7	18	171.9_	95—		CLAY, silty with sand (CL-ML)- Pale (5Y 8/3), dry to moist, stiff, fine grained SAND, contains many shell fragments ar trace phosphates, +HCL	yellow	
SS 5 24	<b>A</b>	32-9-17	16.5	166.9_	100		SAND, clayey (SC)- Pale yellow (2.5Y) moist, medium dense, fine to coarse grain contains trace shell fragments and phospl grains, +HCL		
SS 5 25	<b>A</b>	9-15-18	16		105		SAA except pale yellow (5Y 8/2), contain CLAY seams	ins	
	1 : : : :	1		SITE	Vo	cz/ ogtle	e Units 3 & 4 COL Project		HOLE NO. <b>D</b> 1117
							Final Log		B-1117



GE	EC	TECHNICAL LO	~	OJE(		3 & 4	l CO	JOB NO.   SHEET   6141-06-0286   3	NO.	HOLE NO. 3 B-1117
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" - z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>A</b>	5-9-11	15		110-		SAA except fine to medium grained, contains many shell fragments		
SS 27	X	<b>A</b>	5-4-11	10.5	146.9	115-		SAA		
SS 28	X	<b>A</b>	3-8-10	18	140.9_	120-		CLAY, silty (CL-ML)- Dark greenish gray (GLEY1 4/5GY), dry to damp, very stiff, low plasticity, contains traces of shell fragments, +HCL		Loss of circulation from depths of 118.0 to 119.0 feet
SS 29	X	<b>A</b>	12-22-26	18	140.4_	125-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/5GY), damp, hard, medium plasticity, contains traces of shell fragments a phosphates	nd	Top of Blue Bluff Marl at a depth of 123.5 feet
SS 30	X	•	9-50/1"	10.5		130-		SAA		
SS 31	_	•	50/1"	6		135-		SAA		
SS 32	×	•	50/3"	7		140—		SAA except low plasticity		
SS 33	X		9-17-50/4"	18		145-		SAA		
SS 34	$\boxtimes$		32-50/3"	11	114.6_	-		SAA Boring terminated at 149.25 feet		
					SITE	•		H. i. 2.8.4 COV. D. i.		HOLE NO.
						57 of		e Units 3 & 4 COL Project Final Log		B-1117



	=_	TECHNICAL I O	PR	OJEC	CT				JOB NO.		SHEET NO	).	HOLE NO.
		TECHNICAL LO	•			3 & 4	CC	OL Project	6141-0	06-0286	<b>1</b> OF		B-1118
LOGG	ED E		C	OOR	DINATES					BEGUN		COMPL	
DRILL	FD	M. Herrera		DILI	MAKE AND	N 114		35.9 E 6220 HOLE DIAM		12/12/20 HAMMER SI		12/13	/2006 TOTAL DEPTH
DIVILL		Burnett-Gregg Drilling		NILL		ME-8			nches		165952	DLIX	149.4
GROU		EL. DEPTH/EL. GROUND WAT	ER SITI	E:	<u>C</u>	VIL)-U	50	31	iiciics		103732		147,4
2	57.	9 💆 /						Vogtle Elect	ric Gen	erating Pl	ant - Wa	ynesbo	oro, GA
뷥.		▲ N-VALUE (SPT)	N-COUNT	(in)	Z	Ħ	တ္လ					NOTES	
<u>F</u> S	1PLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ER	ATI(	Z ⊤	꽃	DESCRIPTION	ON AND C	I ASSIFICAT	ION		R LEVELS, ACTER OF
SAMP. TYPE AND NO.	SAMPLE	+ ATT. LIMITS %	3 2	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field c	lassification adju				NG AND ATORY
S)		☐ FINES %		R	ш	ä		of sample b	y field geologist/	engineer)		TESTIN	
SS	$\downarrow \downarrow$	20 40 60 80	6-8-12	13	257.9		C 1111	CAND with a	:14 (CD CM	D. Vallaw (1	OVD	Ton of	Barnwell
1 1	Ä	<b>A</b>	10-10-14	23		-		SAND, with s 7/6), damp, more rounded	edium dens	se, fine grain	ed,	Group a	at a depth of
SS 2 SS 3	Å				254.4	-		SAA				0.0 1001	
SS 3	M		4-8-16	17		5-		SAND, clayey 6/8) and yellow dense, contain	(SC) - Browish red (5	ownish yello YR 4/6), dry	w (10YR , medium		
SS	$\mathbb{H}$	<b>A</b>	14-16-20	17		-		lenses					
4	Å					-		SAA except re medium graine	ed (2.5 Y R : ed, rounded	5/8), damp, c d	lense,		
SS	M		9-15-18	18		-		SAA except re	d (2.5YR 4	4/8)			
5		<b>A</b>	14 14 20	1.7		10-				<b>-</b> (0)			
SS 6	X		14-14-20	17		-		SAA except re	d (2.5YR :	5/8)			
SS	$\forall$	<b>A</b>	10-15-17	17		-		SAA					
7	А					15-							
						-							
00			9-10-12	15		-		G. 1. 1	1. 1				
SS 8	Д		9-10-12	13		20-		SAA except m	eaium aen	ise			
						-							
						-							
SS 9	$\mathbb{X}$		8-10-13	20		25		SAA except re	ddish yello	ow (5YR 6/8	)		
						25-							
						-							
SS	M	<b>A</b>	6-7-8			-		SAA except be	ownish ye	llow (10YR	6/8), wet,		
10	H					30-		fine grained					
					225.9_	-							
SS		<b>L</b>	2-1-2	20		-		CLAY, sandy	(CL)- Pal	le vellow (5Y	7 8/3).		
11	А					35-		CLAY, sandy damp, soft, me	edium plast	ticity	),		
					220.9_	-							
00			6-40-40	17		-		OT ANY 11	n (or ) T	)-1 II - (	537 0 /2 \		
SS 12	Д		0-40-40	1/		40-		CLAY, with s damp, hard, m	nt (CL)- I edium plas	sticity, + HC	5 Y 8/5), L		
						-							
					214.4_	-							
SS 13	X	•	9-10-13	27		4.5		CLAY, silty ( (GLEY1 5/1),	CL-ML)- dry, very s	Greenish gra	<u>-</u>		
13	П					45		( = = = = = ; );	J, . 32 J	,			
						-							
SS	$\bowtie$		40-50/1"	11		-		SAA except pa with shell frag	ale yellow	(5Y 8/3), dry	, hard,		
PREP	ARE	D BY: A. TAYLOR	<u> </u>		SITE	V	ogtl	e Units 3 & 4 Co	OL Projec			HOLE NO	
REVIE	WE	D BY: P. DEPREE				58 of	794	Final Log	5			B	-1118



GE		TECHNICAL LO	_	OJEC ogtl		3 & 4	C(	JOB NO.   S DL Project   6141-06-0286	HEET NO.	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - 2 2nd 6" O 3rd 6" - 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 15	X	<b>A</b>	16-25-14	23	200.9	- - - 55—		SAA		
SS 16	X	<b>A</b>	15-16-15	15	200.5_	60-		*SAND, clayey with shells (SC)- Yellov (2.5Y 8/6), damp, dense, +HCL	w	
SS 17	X	<b>A</b>	14-11-15	19	190.9	65—		SAA except wet, medium dense, fine gra	ained	
SS 18	X	•	8-9-13	27	185.9	70-		CLAY, with silt (CL-ML)- Pale yellow 8/3), damp, very stiff, medium plasticity.	(5Y , +HCL	
SS 19	X	<b>A</b>	14-15-18	27	100.5_	75—		*CLAY, sandy (CL)- Pale yellow (5Y 8 damp, hard, with shell fragments, +HCL	8/4),	
SS 20	X	<b>A</b>	20-19-22	17	175.9_	80-		SAA		Water level depth at end of 12/12/2006 = Ground surface
SS 21	X	<b>A</b>	13-13-20	26	170.5_	- 85 —		*SAND, clayey (SC)- Pale yellow (5Y 8 damp, dense, with shell fragments, medigrained, sub-rounded, +HCL		Water level depth at beginning of 12/13/2006 = 34.0 feet
SS 22	_	•	50/1"	2		90-		SAA		
SS 23	X	<b>A</b>	17-17-30	27	160.9	- - 95 –		SAA		
SS 24	X	<b>A</b>	18-20-28	17	155.9_	100-		SAND, clayey (SC)- Pale yellow (5Y 8/wet, dense, fine grained, rounded, -HCL	/3),	
SS 25	X		30-15-50/5"	17		105-		CLAY, sandy (CL)- Pale yellow (2.5Y and yellow (2.5Y 8/6), damp, hard, +HC	8/4) LL	
			1		SITE	V 59 of	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1118</b>



		OTECHNICAL LO		OJEC					JOB NO.	SHEET NO		HOLE NO.
G		TECHNICAL LO	V	ogtl	e Units	3 & 4	l C(	OL Project	6141-06-0286	<b>3</b> OF	3	B-1118
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" <u>S</u> 3rd 6" <u>S</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field c	DN AND CLASSIFICAT classification adjusted based on esting data and/or re-examination y field geologist/engineer)	ION	WATE CHAR DRILL	S ON: :R LEVELS, :ACTER OF .ING AND RATORY ING
SS 26	X		6-8-50/5"	15		110-		SAA except pa	ale yellow (2.5Y 8/3)			
SS 27	X	<b>A</b>	21-32-26	27	144.9_	115-		CLAY, with s (GLEY1 5/1), +HCL	silt (CL)- Greenish gray dry, hard, medium plast	icity,	Top of Marl a 113.0	f Blue Bluff it a depth of feet
SS 28	X	<b>A</b>	17-22-28	27	135.9_	120-		SAA				
SS 29			50/1"	0	130.9_	125-	-	NO RECOVE	ERY			
SS 30	×		50/2"	4		130-		CLAY, with s (GLEY1 5/1), +HCL	silt (CL)- Greenish gray dry, hard, medium plast	ticity,		
SS 31	X		15-18-50/4"	27		135-		SAA				
SS 32	X		30-22-50/5"	27	115.9_	140-		SAA except gi	reenish gray (GLEY1 6/	1), damp		
SS 33	×		50/2"	0	110.9	145-		NO RECOVE	ERY			
SS 34	X		28-50/5"	15	108.5_	-		CLAY, with s (GLEY1 5/1), \+HCL Boring termina	silt (CH)- Greenish gray damp, hard, high plastic ated at 149.42 feet	city,		
					SITE	v	ogtl	e Units 3 & 4 Co	OL Project		HOLE N	
						60 of		Final Log	5		H	3-1118



COORDINATES   COMPRESS   CONTROL   COMPRESS   CONTROL   CONTROL	D 1110
LOGGED BY   COORDINATES   BEGUN   COMF	B-1119
D CI 1	LETED
R. Clark N 1143888.3 E 622333.8 1/16/2007 1/17  DRILLER DRILL MAKE AND MODEL HOLE DIAMETER HAMMER SERIAL NUMBER	/2007 TOTAL DEPTH
White-MACTEC CME-55 3 Inches 331145	150.0
GROUND EL. DEPTH/EL. GROUND WATER SITE:	
223.6 ₹ / Vogtle Electric Generating Plant - Waynesb	oro, GA
THE DESCRIPTION AND CLASSIFICATION CHAR	S ON: R LEVELS, ACTER OF ING AND
Section   Sect	RATORY
	NG
20 40 60 80 223.6 SAND, with silt (SP-SM)-Brown (7.5YR, Top of	Barnwell
CLAY, with sand (CL)- Pale yellow (5Y 7/4), moist, stiff, very fine grained SAND, low	at a depth of
plasticity SAA except contains organics	
SS 4 5-4-5 17 SAA	
SS	
SS A 4-6-8 17 10— Inoist, stiff, tow plasticity, contains traces of fine SAND and cemented nodules, +HCL SAA	
SS 7 SAA except pale yellow (5Y 7/3), contains traces of shells and abundant laminations	
SS 8 SAA except pale yellow (5Y 7/4), hard, contains shell hash and no laminations	
SS 9 CLAY, with sand (CL)- Pale yellow (5Y 7/4), moist, stiff, low plasticity, +HCL End lo	gging by R.
$  \cdot   \cdot \cdot \cdot \cdot \cdot \cdot$	logging by B.
SS 11 SAND, with clay (SP-SC)- Olive yellow (2.5Y 6/8), moist, medium dense, low plasticity, contains shell hash, +HCL	
SS 12 SAA except pale yellow (5Y 8/3), medium grained, contains some iron staining	
SS 13 SAA except yellow (2.5Y 7/8), nonplastic to low plasticity, contains shell fragments	
SS CLAY, with sand (CL)- Pale yellow (2.5Y 8/4), wet, very stiff, fine grained SAND,  PREPARED BY: A. TAYLOR SITE Vogtle Units 3 & 4 COL Project HOLE N	
REVIEWED BY: P. DEPREE Final Log	3-1119



GE	OTECHNICAL LO	<u> </u>	OJEC		3 & 4	L C	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 OF	
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" ±	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 60 80				_		medium plasticity, contains shell hash, +HCL	
SS 15		9-11-12	12	166.9	55—		SAA except contains more shell hash	
SS 16	<b>A</b>	5-7-8	15	166.8_ 161.8_	60-		SAND, with clay (SP-SC)- Pale yellow (2.5Y 7/3), wet, medium dense, medium grained, low plasticity, contains shell hash, +HCL	
SS 17	<b>A</b>	5-4-6	18	156.8	65—		CLAY, with sand (CL)- Brownish yellow (10YR 6/8), moist, stiff, low plasticity, contains shell hash, +HCL	
SS 18	4	42-50/5"	12		70-		SAND, with clay (SP-SC)- Brownish yellow (10YR 6/8), wet, very dense, medium grained, low plasticity, contains shell hash, +HCL	Top of Utley Limestone at a depth of 66.8 feet Installed 3" steel casing to a depth of 70.0 feet
SS 19	z .	50/4"	3	146.8_	75 —		SAA except pale yellow (2.5Y 8/3), nonplastic, contains cemented SAND and shell hash	70.0 feet
SS 20	4	11-50/3"	7	141.8_	80-		SAND, silty (SM)- Pale yellow (2.5Y 8/4), moist, very dense, fine to coarse grained, nonplastic to low plasticity, contains shell hash, +HCL	
SS S	<b>A</b>	6-23-20	18		85 —	-	SILT (ML) - Greenish gray (GLEY1 4/5G), moist, hard, nonplastic to low plasticity, contains shell fragments, +HCL	Top of Blue Bluff Marl at a depth of 81.75 feet  Advanced casing to 85.0 feet Water level depth at
SS 22	<b>A</b>	8-8-11	18		- - 90-	- - - -	SAA except very stiff	Water level depth at end of 01/16/07 = 21.0 feet Water level depth at beginning of 01/17/07 = 24.0 feet
SS 23	<b>A</b>	9-12-12	18		95—	- - - -	SAA except low plasticity	
SS 5	<b>A</b>	8-12-31	18		100-	-	SAA except hard	
SS 25	•	34-41-46	18		105-	-	SAA	
		<u> </u>		SITE	V 62 of	_	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1119</b>



GE		TECHNICAL LOC	<u> </u>	OJE(		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 of	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" 7 2nd 6" O 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>A</b>	19-16-38	18		110-		SAA except greenish gray (GLEY1 6/5GY), contains traces of CLAY	
SS 27	X	<b>A</b>	11-35-17	18		115-		SAA	
SS 28	×	•	50/5"	4		120-		SAA except nonplastic, cemented	
SS 29	X	<b>A</b>	8-13-14	18	96.8	125-		SAA except greenish gray (GLEY1 5/5G), very stiff, low plasticity, not cemented	
SS 30	X	<b>A</b>	9-12-29	18	91.8_	130-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/5G), moist, hard, low plasticity, +HCL	
SS 31	X	<b>A</b>	11-15-43	18	86.8_	135-		SILT (ML) - Greenish gray (GLEY1 6/10GY), moist, hard, nonplastic to low plasticity, +HCL	
SS 32	X	<b>A</b>	11-18-16	18	81.8_	140-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/5G), moist, hard, low plasticity, contains shell fragments, +HCL	
SS 33	X	<b>A</b>	9-9-13	18	76.8_	145-		SILT (ML) - Greenish gray (GLEY1 5/5G), moist, very stiff, low plasticity, contains shell fragments, +HCL	
SS 34	X	<b>A</b>	14-21-25	18	73.6_	150-		SAND, clayey (SC)- Greenish black (GLEY1 2.5/5GY), wet, dense, fine to medium grained, nonplastic, +HCL Boring terminated at 150 feet	
					SITE	V 63 of	_	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1119</b>



	OTECHNICAL LOC	ROJE	CT			JOB NO.		SHEET NO	).   H	HOLE NO.
GE				3 & 4 CC	L Project	6141-0	06-0286	1 OF		B-1120
LOGGED		COOR	RDINATES				BEGUN		COMPL	
DRILLER	M. Harvey	DBILL	MAKE AND		3.1 E 6225		2/28/200 HAMMER SE		3/6/2	007 TOTAL DEPTH
DIVILLE	Melvin-MACTEC	DIVILL		ME-75		nches		219505		149.8
GROUNI	DEL. DEPTH/EL. GROUND WATER SI	I ITE:		.WIE-75	31	inches		217303		147.0
22'	7.2 \frac{\fin}}}}}}{\frac{\fin}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}{\firan{\frac{\firi}}}}{\frac{\f{\frac{\frac{\frac{\frac{\frac{\frac{\fi			7	Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	ro, GA
	▲ N-VALUE (SPT)	T   (E)	Z.	င်း တြ					NOTES	ON:
	O WATER CONTENT %		ATIC EET	를 물	DESCRIPTION		ASSIEICAT	ION		LEVELS, CTER OF
SAMP. TYPE AND NO.	+ ATT. LIMITS %	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN F	( * = field c	lassification adiu	sted based on	1014	DRILLIN	IG AND
8	☐ FINES %	RE-		B   9	of sample b	esting data and/o y field geologist/	engineer)		LABOR/ TESTIN	
	20 40 60 80		227.2					_		
SS 1	8-18-18			-1111	SAND, silty (Sanse, contain	<b>SM)</b> - Red ( s GRAVEI	(2.5YR 4/8),	dry,	Top of E Group a	Barnwell t a depth of
SS 2 SS X	14-17-2	7   14	223.9	1111	SAA				0.0 feet	
$\begin{bmatrix} \frac{1}{3} \\ \frac{1}{3} \end{bmatrix}$	8-13-9	8	221.7	5	<b>GRAVEL, sil</b> (7.5YR 6/6 to	ty (GM)- 1 4/1)	Brown and g	ray		
SS 4	11-12-1	7 9	219.2		SAND, silty (S	SM)- Yello lense	owish red (5)	YR 5/8),		
SS 5	7-10-17	7 9	219.2_	10	SAND, clayey red (5YR 5/8)	(SC)- Yel drv. medi	llow (10YR 7 um dense	7/8) to		
ss	18-15-1	2 11		10-	SAA except be					
6	6-8-12	10		-//	C A A 1	(5	VD 4/1)	4:		
$\begin{bmatrix} SS \\ 7 \end{bmatrix}$	0-0-12	10		15	SAA except da reddish brown	CLAY len	1 K 4/1), con IS	itians		
			210.2_							
	3-3-6	18		20	CLAY (CL) - (GLEY 1 6/100	Red (2.5Y GY), damp	R 5/8) and gr , stiff	reen		
			205.2	20						
			203.2_							
SS S	7-8-6	14		-//	SAND, clayey 6/8), dry, med	(SC) - Bro	wnish yellov	w (10YR		
				25-//	0/8), dry, med	ium dense,	contains CL	AT ICHSCS		
			200.2_	- 1/4						
ss	2-2-3	13			SILT (ML) - I medium stiff	Pale vellow	/ (5Y 8/4), dt	v.		
10	<u> </u>			30-	medium stiff		( ),	,		
			195.2_							
	4-4-3	18			CAND	. (CC) P	vvmisle = 11	v. (1037P		
SS 11	(4-4-3)	10		35-	<b>SAND, clayey</b> 6/8), dry, loos	e, contains	CLAY lense	w (101K S		
				1//						
SS 12	2-4-3	9		40	SAA except ye	ellow (2.5Y	7 8/6)			
'-				40						
SS 13	3-2-3	12		1//	SAA except ye	ellow (2.5Y	7/3), moist,	, -HCL		
13	<u> </u>			45						
ss	14-9-12	2 18			SAA except pa	ale vellow	(2 5¥ 8/2) n	nedium		
			SITE	Vantla	dense, +HCL				HOLE NO	
	ED BY: A. TAYLOR ED BY: P. DEPREE			v ogtle	Units 3 & 4 Co Final Log		ι			-1120
				64 of 724	- 11141 1108	•				



GE	EC	OTECHNICAL LO	$\frown$	OJE(		3 & 4	C	JOB NO. SH DL Project 6141-06-0286	EET NO.	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" C 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	I	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40 00 00				-				Casing driven to 50.0 feet
SS 15	X	<b>A</b>	10-14-17	10	170.2_	55—		SAA except pink (7.5YR 7/3), dense		
SS 16	X	<b>A</b>	12-15-21	10	170.2_	60-		*SHELL HASH, clayey (GC)- Pink (7.5 7/3), moist, dense, +HCL	YR	
SS 17	X	<b>A</b>	27-20-18	11	160.2	65—		SAA		
SS 18	$\times$		27-50/2"	5	160.2_	- - 70-		*SAND, clayey (SC)- Pinkish white (7.5° 8/2), moist, very dense, with shell fragment	YR nts,	
SS 19	X		WOH/12"-3	10		75—		SAA except very pale brown (10YR 8/3), loose	wet,	Loss of circulation at a depth of 73.5 feet
SS 20	X	<b>A</b>	7-3-1	4	150.2_	80-		SILT (ML) - Light olive brown (2.5Y 5/4 wet, soft, contains minor shell hash, +HCl	), L	
SS 21	×		50/5"	5	145.2_	- - 85-		*SHELL HASH, silty (GM)- Very pale brown (10YR 8/2), wet, very dense, +HCl	L	Top of Utley Limestone at a depth of 82.0 feet
SS 22	X	<b>A</b>	20-17-18	18	140.4_	- - - 90-		CLAY (CL) - Greenish gray (GLEY1 5/1/10Y), dry to damp, hard, +HCL		Top of Blue Bluff Marl at a depth of 86.75 feet
SS 23	X	<b>A</b>	16-30-45	18		- - - 95-		SAA		
SS 24	×		50/3"	4		100-		SAA		Installed 3" steel casing to a depth of 90.0 feet
SS 25	X	<b>A</b>	15-25-30	18	125.2_	105—		SILT (ML) - Greenish grav (GLEY1 5/1/5GY), moist, hard, +HCL		Water level depth at end of 2/28/07 = 75.0 feet Water level depth at beginning of 3/1/07 = 75.0 feet
					SITE	V 65 of	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1120</b>



GE		TECHNICAL LO	~	OJE(		3 & 4	C	JOB NO. SHEET 6141-06-0286 3	ΓNO. OF $\hat{\boldsymbol{\zeta}}$	HOLE NO.  B-1120
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" ¬	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N W C D	OTES ON: /ATER LEVELS, HARACTER OF RILLING AND ABORATORY ESTING
SS 26	X	<b>A</b>	15-29-37	18		110-		SAA		
SS 27	X	<b>A</b>	16-24-38	18	110.2	- - 115—	- - -	SAA		
SS 28	×	•	50/4"	4	110.2_	120-		CLAY (CL) - Greenish gray (GLEY1 6/1/10Y), hard, +HCL		
SS 29	×		50/5"	7	100.0	125—		SAA		
SS 30	X	<b>A</b>	17-12-18		100.2_	130-		SILT (ML) - Greenish gray (GLEY1 6/1/10Y), hard, +HCL		
SS 31	X		17-50/3"			135-	-	SAA		
SS 32	X	<b>A</b>	15-23-40	18		- - 140-	-	SAA	W	Vater level depth at and of 3/5/07 = 53.0
SS 33	X	<b>A</b>	20-27-28	18		145—		SAA except damp	fe	/ater level depth at eginning of 3/6/07 = 8.0 feet
SS 34	X		16-30-50/4"	18	77.4_	- - -		SAA except contains shell hash Boring terminated at 149.83 feet		
	1		l		SITE	V 66 of		e Units 3 & 4 COL Project Final Log	НС	DLE NO. <b>B-1120</b>



		TCUNICAL LO	PR	OJEC	CT				JOB NO.		SHEET NO	).	HOLE NO.
GE	U	ECHNICAL LO	G V	ogtl	e Units	3 & 4	CC	OL Project	6141-0	06-0286	<b>1</b> OF		B-1121
LOGGE	D BY		C	OOR	DINATES					BEGUN	_	COMPL	
DRILLE	D	D. Atkinson		DILI	MAKE AND			75.6 E 6202 HOLE DIAM		2/8/200 HAMMER SE		2/9/2	2007 TOTAL DEPTH
DIVILLE		White-MACTEC		IXILL		ME-5			nches		331145	,LIX	150.0
GROUN	ID EL	DEPTH/EL. GROUND WAT	ER SITI	Ξ:					incircs		001110		1000
24	1.3	Ţ / ▼ /						Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	oro, GA
원 .		N-VALUE (SPT)	N-COUNT	i)	N_	F	ဂ္ဂ					NOTES	
T.O	SAMPLE +	WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ĒR	ATIC	Z T	∺	DESCRIPTION	ON AND CI	ASSIFICAT	ION		R LEVELS, ACTER OF
SAMP. TYPE AND NO.	SAN +	- ATT. LIMITS %	3 2	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN	GRAPHICS	( * = field c	lassification adju- esting data and/or y field geologist/o	sted based on			NG AND ATORY
S		FINES %		뿐	Ш	D		of sample b	y field geologist/	engineer)		TESTIN	
SS		20 40 60 80	5-6-6	9	241.3		লামান	*SAND, silty	(SM) Dad	1 (2 5VD 5/9)	domn	Ton of	Barnwell
1	X	<b>A</b>	6-8-9	10		-		medium dense SAA except pa	, fine grain	i (2.3 i K 3/6) ied (2.5 v 8/4)	, uamp,	Group a	at a depth of
	X					_		SAA except po	are yellow	(2.31 6/4)		0.0 1001	
1 SS 2 SS 3	X		6-8-9	10		5—		SAA except vo	ery dark gr	ayish brown	(10YR		
SS		O 🔼	8-11-16	11		-							
4	4					-							
SS	X	<b>A</b>	14-16-20	13		-		SAA except ye	ellowish re	d (5YR 4/6),	moist,		
5		+○▲□+	0 12 12		230.8_	10-							
SS 6	X		8-12-13	9	228.3	-		SAND, clayey 4/6), moist, mo	(SC)- Yel edium dens	llowish red ( se, fine grain	SYR ed,		
SS	√ 4	<b>.</b>	4-5-5	10	226.3_	-		nonplastic to l			brown	Installe	d 3' steel
7	4					15-		SAND, with s (10YR 5/6), m trace CLAY	oist, loose,	, fine grained	l, contains		o a depth of
						-							
			11-13-20	9		-		0.4.4		1.(5)(0)			
SS 8	X		11-13-20	,		20-		SAA except y	ellowish re	a (5 Y K 5/6),	dense		
					219.3_	-							
		<b>A</b> DO 1			217.0_	=							
SS 9	Α ΄		3-5-7	13		25		SAND, clayey 5/8), moist, mo	(SC)- Yel edium dens	llowish red (	5YR ed		
					2142	25 —		,, ,		, &			
					214.3_	-							
SS	√ 4		4-5-6	10		-		SAND, with s	ilt (SP-SM	I)- Yellowish	brown		
10						30-		SAND, with s (10YR 5/6), m contains trace	CLAY	an dense, fir	ie grained,		
					209.3_	-							
SS	<b>A</b>		1-1-3	14		_		CLAY, silty (	CL-ML)- 1	Pale vellow	2.5Y		
11	4					35 —		CLAY, silty (7/4), wet, soft, contains traces	medium to of very fir	o high plastic ne SAND	eity,		
					204.8_	-							
00 1			1-1-2	16		-		CAND D. C	OMO D 1	volla /537 (	2/2)		
SS 12	X		1-1-2	10		40-		SAND, silty (xery loose, fin trace CLAY,	e grained,	yellow (5 Y 8 low plasticity	, contains		
					199.3	-		пас <del>с</del> СLA I , <sup>д</sup>	IICL				
						-							
SS 13		`	8-6-3	18		- 45 —		CLAY, silty ( wet, stiff, high	CL-ML)- l plasticity.	Pale yellow ( +HCL	(5Y 7/3),		
	]					43 -		, , 6	,				
						_							
SS	┪ ^		4-4-4	18		-		SAA except pa	ale yellow	(5Y 8/3), me	dium to		
PREPAI	RED E	BY: A. TAYLOR	1		SITE	V	ogtl	high plasticity e Units 3 & 4 C	OL Projec	t		HOLE NO	
REVIEW	VED E	Y: P. DEPREE				67 of	<del>794</del>	Final Log	3			B	-1121



GI	ΞΟ	OTECHNICAL LOC	<u> </u>	OJE(		3 & 4	l C	JOB NO. SHEET NO. OL Project 6141-06-0286 2 OI	
SAMP. TYPE AND NO.	SAMPLE		1st 6" -z 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  ( * = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS 15	X	<b>A</b>	4-5-5	18		55—		SAA	
SS 16	X	<b>A</b>	4-13-23	18	184.3_	- - - 60-		SAND, clayey (SC)- Pale yellow (5Y 8/2), wet, dense, fine grained, medium to high plasticity, contains trace shell fragments, +HCL	-
SS 17	X	<b>A</b>	5-6-7	18	179.3_	- - - - 65 –		CLAY, silty with sand (CL-ML)- Pale yellow (5Y 8/4), wet, stiff, medium to high plasticity, very fine SAND, +HCL	
SS 18	X	<b>A</b>	7-9-9	18	174.3_	- - 70-		CLAY, with sand (CH)- Yellow (5Y 8/6), wet, very stiff, medium to high plasticity, fine grained SAND, contains shell fragments up to 1/8", +HCL	Water level depth at end of 2/8/07 =
SS 19	X	<b>A</b>	10-43-20	18	169.3_ 164.3	- - - 75 –		CLAY (CH) - Pale yellow (5Y 8/3), wet, hard, medium plasticity, contains shell fragments up to 1/2", +HCL	Ground Surface Water level depth at beginning of 2/9/07 = 17.5 feet
SS 20	×		50/5"	4	159.3_	80-		CLAY, sandy (CL)- Pale yellow (5Y 8/3), wet, hard, low to medium plasticity, fine grained SAND, contains trace fine shell fragments, +HCL	
SS 21	X	<b>A</b>	8-17-40	10	154.3_	85 —		SAND, clayey (SC)- Pale yellow (5Y 8/3), wet, very dense, fine grained, nonplastic to low plasticity, contains shell fragments up to 1/2", +HCL	
SS 22	X	<b>A</b>	10-11-13	13	149.3_	90- -		SAND, with clay (SP-SC)- Pale yellow (5Y 8/4), wet, medium dense, fine to medium grained, +HCL	
SS 23	X	<b>A</b>	18-20-15	11	144.3_	- - 95 - -		SAND, clayey (SC)- Pale yellow (5Y 8/3), wet, dense, fine grained, nonplastic, contains trace shell fragments up to 1/4" and shell hash lenses up to 1" thick, +HCL	
SS 24	X	<b>A</b>	5-25-22	18		100-		SAND, with silt (SP-SM)- Very pale brown (10YR 8/4), wet, dense, fine to medium grained, +HCL	
SS 25	X		5-7-50/4"	18	SITE	105-	(og*	SAA except very pale brown (10YR 8/2), very dense  e Units 3 & 4 COL Project	HOLE NO.
						v	ogu	Final Log	B-1121



GE		TECHNICAL LO	<u> </u>	OJE(		3 & 4	l C	JOB NO. SHEET N OL Project 6141-06-0286 3 of	D. HOLE NO. B-1121	
SAMP. TYPE AND NO.	SAMPLE	■ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80		RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING	
SS 26	X	<b>A</b>	9-8-8	18		110-		SAA except medium dense, medium grained, contains shell fragments up to 1/4"		
SS 27	X	<b>A</b>	8-12-10	16		115-		SAA except fine grained, contains trace shell fragments up to 1/8"		
SS 28	X	<b>A</b>	9-11-12	14		120-		SAA except pale yellow (2.5Y 8/3), contains no shell fragments		
SS 29	X	<b>A</b>	6-10-12	18	114.3	125-		SAA except contains traces of shell fragments		
SS 30	×	•	50/3"	1		130-		<b>SAND, with clay (SP-SC)</b> - Pale yellow (2.5Y 8/4), wet, very dense, fine grained, nonplastic to low plasticity, contains cemented SAND in bottom 1/4", +HCL	Top of Utley Limestone at a dept of 127.0 feet	
SS 31			50/.5"	0	109.3_	135-	K.2	NO RECOVERY		
SS 32	×	•	50/5.5"	5	104.3_	140—		CLAY, sandy (CH) - Pale yellow (2.5Y 8/2), wet, hard, medium to high plasticity, fine grained SAND, contains some fine shell fragments, +HCL		
SS 33	X	<b>A</b>	10-14-17	18	98.8_	145—		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/10GY), wet, hard, medium plasticity, +HCL	Top of Blue Bluff Marl at a depth of 142.5 feet	
SS 34	X	<b>A</b>	13-14-18	18	91.3_	150-		SAA  Boring terminated at 150 feet		
					SITE	V	ogtl	e Units 3 & 4 COL Project	HOLE NO.	
						69 of		Final Log	<b>B-1121</b>	



GEO	OTECHNICAL LOG	•	OJEC ngtle		3 & 4	CC	OL Project	JOB NO.	06-0286	SHEET NO		HOLE NO. <b>B-1123</b>
LOGGED				DINATES			•	1	BEGUN	1	COMPLETED	
DRILLER	G. Pillappa	DI	RILL N	MAKE AND			75.4 E 6209 HOLE DIAM		1/25/200 HAMMER SE		1/30/2 BER	2007 TOTAL DEPTH
	Banks-MACTEC			Cl	ME-5	550	3 I	nches		337153		150.0
GROUND 241	$\nabla$ /	R SITE	≣:				Vogtle Elect	ric Gene	erating Pl	ant _ Wa	vnesho	ro GA
271	<u>‡</u> /						vogue Lieet	THE GEING	Tating 1 is	unt vva	JICSBO	10, 3/1
SAMP. TYPE AND NO. SAMPLE	○ WATER CONTENT % + ATT. LIMITS % □ FINES %	1st 6" 5 2nd 6" 0 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIO (* = field cl laboratory te of sample by	ON AND CL assification adjus esting data and/or r field geologist/e	ted based on	ION		LEVELS, CTER OF IG AND ATORY
SS	20 40 60 80	3-5-6	18	241.3			SAND, silty (S 5/8), moist, me	SM)- Stron	g brown (7.5	YR	Top of E	Barnwell
$ \begin{array}{c c} 1 & \times \\ SS & \times \\ 2 & \times \\ SS & \times \end{array} $	<b>A</b> □	1-4-4 3-4-4	15		-		nonplastic SAA except re				0.0 feet	t a depth of
3 SS X	<b>A</b> D	2-3-3	11	235.3_	5-		*SAND, with damp, loose, fi	silt (SP-SN ne grained	1)- Red (2.5)	YR 5/8),		
ss V	•	5-7-8	8		-		SAA except m					
5 SS S	<b>★</b> □ +	5-8-8	13	230.8_	10-		SAND, clayey medium dense	(SC) - Red		 lamp, icity		
SS 7	, 🛦 🗆	5-8-8	13		15—		SAA		•	J		
ss 8	, 🛕	6-9-11	12		20-		SAA					
		7-10-10	12		25 —		SAA					
SS 10	•	7-9-11	14	209.3	30-		SAA except co	ontains som	ne coarse gra	ins		
SS 11		7-13-10	8	204.3	35—		SAND, with si (7.5YR 6/8), rr coarse grained,	ilt (SP-SM noist, medi , low plasti	)- Reddish y um dense, fii city	ellow ne to		
SS 12	<b>A</b> ++	4-4-8	13		40-		SAND, clayey 6/6), moist, me grained, low pl	(SC) - Bro edium dens asticity	wnish yellov e, fine to coa	v (10YR ırse		
SS X		2-4-5	12	194.3	45—		SAA except br	ownish yel	low (10YR (	5/8)		
ss	•	2-4-4	18		-		CLAY, silty w	ith sand ( 6/6), moist	C <b>L-ML)-</b> Br	ownish ff,		
	ED BY: A. TAYLOR ED BY: P. DEPREE			SITE	V <del>70 of</del>	_	e Units 3 & 4 CO Final Log		t		HOLE NO	-1123



GEOTECHNIC		OJEC		3 & 4	CC		EET NO.  2 OF		
A N-VALUE (SF O WATER CON + ATT. LIMITS   FINES %	TENT % 1st 0. Sid 6. White of the contraction of th	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING	
14	60 80					medium plasticity, contains traces of shell fragments, -HCL			
SS 15	2-4-4	18	184.3_	55		SAA except olive yellow (2.5Y 6/8)			
SS X	1-7-8	14	10 110_	60-		SAND, clayey (SC)- Yellow (5Y 7/6), mo medium dense, fine to medium grained, lor plasticity, -HCL	oist,	Water level depth at end of 1/25/07 = Top of Casing	
SS X	5-7-7	10	174.2	65		SAA except pale yellow (2.5Y 8/4), damp	,	Water level depth at beginning of 1/26/07 = 12.0 feet	
SS 18	7-13-16	8	174.3_ 169.3_	70-		SAND, with clay (SP-SC)- Yellow (10YR 7/6), damp, medium dense, fine to medium grained, low plasticity, -HCL	R n		
SS 19 A	7-7-8	12.5		75 —		SAND, clayey (SC) - Pale yellow (2.5Y 7/damp, medium dense, fine to medium grain low plasticity, -HCL	/4), ined,		
SS Z	7-8-8	18		80-		SAA except yellow (2.5Y 7/6), fine graine	ed		
SS ≥ 21	50/5"	5	157.8_ 154.3_	85		*SHELL HASH, with clay and sand (GI - Very pale brown (10YR 8/2), moist, very dense, +HCL	P-GC)		
SS X	5-6-10	18	149.3_	90-		SAND, clayey (SC) - Yellow (2.5Y 7/6), moist, medium dense, fine grained, low plasticity, contains CLAY seams, -HCL			
SS Z	12-27-30	11	144.3	95—		SAND, with silt (SP-SM)- Pale yellow (2.7/4), moist, very dense, fine to medium gra-HCL	2.5Y rained,		
SS 24	50/1"	0	139.3_	100-	1111	NO RECOVERY		Top of Utley Limestone at a depth of 97.0 feet	
SS × 25	\$ 50/3"	3	137.3_	105		*SHELL HASH, with clay (GP-GC)- Ve pale brown (10YR 8/2), wet, very dense, fi coarse grained SAND, +HCL	ery ine to	Loss of circulation at a depth of 103.5 feet Installed 4" steel casing to a depth of	
			SITE	Vogtle Units 3 & 4 COL Project Final Log  HOLE NO.  B-112					



	GEOTECHNICAL LOG         PROJECT Vogtle Units 3 & 4 COL Project         JOB NO. 6141-06-0286         SHEET NO. 3 of 3         HOLE NO. B-1123													
Gt	٠,	TIECHNICAL LO	V	ogtl	e Units	3 & 4	C	OL Project	6141-06-0286	<b>3</b> OF	3 OF 3 B-1123			
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>2</del> 2nd 6" <u>0</u> 3rd 6" <del>-</del> 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field c	DN AND CLASSIFICAT lassification adjusted based on testing data and/or re-examination by field geologist/engineer)	ION	WATE CHAF DRILI	ES ON: ER LEVELS, RACTER OF LING AND DRATORY ING		
SS 26	X	•	15-50/2"	5.5	132.8_	110-		CLAY, silty ( (GLEY1 4/100 traces of shell	CL-ML)Dark greenish GY), dry to damp, hard, fragments, +HCL	gray contains	105.0 Top o Marl 108.5	of Blue Bluff at a depth of		
SS 27	X		16-50/6"	12		115-		SAA except da 4/5GY)	ark greenish gray (GLE	Y1	Water end o	r level depth at $f \frac{1}{26}$ /07 = Top		
SS 28	X		24-50/1"	10.5		120-		SAA except go also contains t	reenish gray (GLEY1 5/ races of phosphate grain	5GY), is	of Ca	sing		
SS 29	X	,	30-21-50/2"	16		125-		SAA						
SS 30	X	•	12-17-50/3"	18		130-		SAA						
SS 31	X		17-39-50/1"	15		135-		SAA						
SS 32	X	•	9-50/6"	15		140-		SAA						
SS 33	X	<b>A</b>	24-23-22	18		145-		SAA						
SS 34	X	•	19-34-20	18	91.3_	150-		SAA except lig 7/5GY) Boring termina	ght greenish gray (GLE ated at 150 feet	Y1				
					SITE	72 of		e Units 3 & 4 Co Final Log			HOLE	NO. B-1123		



GEC	OTECHNICAL LOG	•	OJECT	Jnits	3 & 4	CO	JOB NO.  OL Project 6141	-06-0286	SHEET NO	
LOGGED			OORDIN	ATES			<u> </u>	BEGUN		COMPLETED
DRILLER	G. Pillappa	DI	RILL MA				27.6 E 621421.6  HOLE DIAMETER	1/23/200 HAMMER SE		1/25/2007 ER TOTAL DEP
ODOLIND	Banks-MACTEC	D. OLT	_	C	ME-5	50	3 Inches	3	337153	150.0
GROUND 241.	$\nabla$ $I$	R SITE	<b>=</b> :				Vogtle Electric Ger	nerating Pla	ınt - Wa	ynesboro, GA
SAMP. TYPE AND NO. SAMPLE	○ WATER CONTENT % + ATT. LIMITS % □ FINES %	1st 6" <del>5</del> 2nd 6" <u>5</u> 3rd 6" <del>4</del>	~	E ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND (  (* = field classification ac laboratory testing data and of sample by field geological states and the sample by field geological states are sample	liusted based on	ON	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS   X   SS	20 40 60 80  A  A	5-5-8 6-7-10 5-10-19 6-12-14 3-4-4 4-6-10	15.5	241.2 239.7_	5-		GRAVEL, with sand (damp, medium dense *SAND, with silt (SP-damp, medium dense, f SAA except strong brows SAA except brownish y SAA except loose SAA	SM)- Red (10R ine grained, not wn (7.5YR 5/6)	. 5/8), nplastic , moist	Top of Fill at a depth of 0.0 feet Top of Barnwell Group at a depth of 1.5 feet
6 △ SS 7 ▼ SS ▼		9-12-14 8-10-12	13	228.2_	15-		*SAND, clayey (SC)-1 moist, medium dense, f		 5),	
8 △ SS 9 ▼	*	5-10-12	14		25-		SAA			
SS N	<b>A</b> D	6-8-8	12		30-		SAA, except Red (2.5Y	R 4/8)		
SS 11		4-4-4	12		35-		SAA except loose, fine plasticity	to coarse grain	ed, low	
SS 12		3-4-3	17		40-		SAA			
SS X		4-5-4 3-3-4	18	194.5_	45 -		SAA except yellowish i		- — — — — ry pale	Loss of circulation a a depth of 48.0 feet
	ED BY: A. TAYLOR		   S	SITE	V	22221 ogtl	CLAY, silty with sand brown (10YR 7/4), med e Units 3 & 4 COL Proje			HOLE NO.
REVIEWE	ED BY: P. DEPREE				73 of 1	_	Final Log			B-1124



GE	Ξ	OTECHNICAL LO		ojec ogtl		3 & 4 C	OL Project   JOB NO.   SH	1EET NO. 2 OF	
<b>/</b> S	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>7</del> 2nd 6" 00 3rd 6" 41	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	١	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS 15	X	<b>A</b>	2-3-4	18			-HCL SAA except yellow (2.5Y 7/6)		
SS 16	X	<b>A</b>	3-3-4	18		60-	SAA		
SS 17	X	<b>A</b>	5-8-5	18	179.5_	65	SAND, clayey (SC)- Yellowish brown (1 5/8), medium dense, fine grained, low plasticity, -HCL	 10YR	
SS 18	X	•	7-9-11	14		70-	SAA except yellow (2.5Y 7/8)		
SS 19	X	<b>A</b>	8-9-10	16	164.5	75-	SAA except brownish yellow (10YR 6/8)	)	
SS 20	X	<u> </u>	8-11-11	13	10 1.5_	80-	SAND, with clay (SP-SC)- Brownish ye (10YR 6/6), damp, medium dense, fine to medium grained, low plasticity, -HCL	llow	
SS 21	X	<b>A</b>	4-4-8	18		85	SAA except yellow (10YR 7/6)		
SS 22	X	<b>A</b>	8-12-13	14		90-	SAA except very pale brown (10YR 7/3)		
SS 23	X	<b>A</b>	7-11-11	16	147.7_ 144.2_	95—	SAND, silty (SM)- Light greenish gray (GLEY1 8/N), moist, medium dense, fine medium grained, contains shell fragments +HCL	5,	Loss of circulation at a depth of 95.0 feet
SS 24	×		21-50/1"	7	2	100-	SILT (ML) - Very dark grayish brown (1 3/2), moist, very stiff, contains shell fragr SAA except greenish gray (GLEY1 5/100 dry, hard, contains traces of shell fragmer +HCL	0YR ments GY), nts,	Top of Blue Bluff Marl at a depth of 97.0 feet
SS 25	X		14-50/5"	13		105-	SAA		
					SITE	Vogt	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1124</b>



GE		TECHNICAL LO	~	OJE(		3 & 4	C C		ET NO. <b>3</b> OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" ¬	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>A</b>	10-17-40	18	129.2	110-	-	SAA except dark greenish gray (GLEY1 4/5GY), low plasticity		
SS 27	X	<b>A</b>	15-17-28	18	129.2_	115-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/10Y), dry to damp, hard, mediur plasticity, contains shell fragments, +HCL	m	
SS 28	X		11-50/6"	12		120-		SAA		
SS 29	X	<b>A</b>	11-18-39	18		125-		SAA except greenish gray (GLEY1 5/10GY	Y)	
SS 30	X		17-50/5"	18		130-		SAA except dark greenish gray (GLEY1 4/5GY)		Water level depth at beginning of 01/25/07 = 45.0 feet
SS 31	X	<b>A</b>	19-37-22	18		135-		SAA except greenish gray (GLEY1 5/5GY)		= 45.0 feet
SS 32	$\boxtimes$	•	11-50/5"	12		140-		SAA		
SS 33	X	<b>A</b>	10-12-17	18		- - 145-		SAA except very stiff		
SS 34	X	<b>A</b>	16-19-30	18	91.2_	150-		SAA except hard  Boring terminated at 150 feet		
					SITE	V	ogtl	e Units 3 & 4 COL Project		HOLE NO.
						75 of		Final Log		B-1124



GE	OTEC	HNICAL		OJEC ogtl		3 & 4	CO	OL Project	JOB NO. <b>6141-</b> 0	06-0286	SHEET NO		HOLE NO. <b>B-1125</b>
LOGGE		C Candy			DINATES			36.8 E 6216		BEGUN		COMPLI	ETED
DRILLER		C. Gandy	D	RILL	MAKE AND			HOLE DIAM		1/19/200 HAMMER SE		1/23/2 BER	TOTAL DEPTH
GROUNI		IKS-MACTEC EPTH/EL. GROUND	WATER SIT	F.	Cl	ME-5	50	4 I	nches		337153		150.0
24		7 / 1 /	Witter On					Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	ro, GA
SAMP. TYPE AND NO.	O WA		1st 2nc 3rd	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory t of sample b	DN AND CL lassification adjus esting data and/or y field geologist/e	sted based on	TION		LEVELS, CTER OF IG AND ATORY
SS 1	20	40 60 80	2-3-7 8-8-10	19 17	241.0	_		SAND, silty (S medium dense SAA except re	, fine grain	ed, nonplasti	ic	Top of E Group at 0.0 feet	Barnwell t a depth of
SS 2 SS 5		<b>A</b>	9-12-17	12	238.0_	-						0.0 1661	
3 K		<b>A</b>	8-15-22	15	235.5_	5-		SAND, silty w 4/6), damp, mo nonplastic *SAND, with					
4   2   SS   7		<b>A</b>	5-12-21	10		-		*SAND, with (2.5YR 4/6), d nonplastic SAA except m	_	e, fine graine	ď,	Water le	evel depth at 1/22/07 =
5 2 SS 7		<b>A</b>	8-16-18	9.5	230.0_	10-				g brown (7 5	<u> </u>	Ground	surface
$\begin{vmatrix} 6 \\ 6 \end{vmatrix}$			7-14-10	12	228.0_	-		SAND, silty (\$5/6), moist, de				_	
7			71110	12		15-		SAND, clayey 5/8), damp, moplasticity	edium dens	e, fine grain	ed, low		
SS 8		+	5-8-11	14.5	219.2	20-		SAA except refine to mediun	eddish yello n grained, o	ow (7.5YR 6/contains 2" c	/8), moist, lay seam		
SS 9	•		4-4-5	15		25—		*SILT, with s	and (MH)	- Brownish y	vellow y		
SS 10	•	#	_ 121	23	209.2_	30-		SAA except vo	ery pale bro	own (10YR 7	7/4),		
SS 11	•		3-3-3	24	204.2_	35—		SILT (ML)- damp, medium	Very pale b	rown (10YR plasticity	. 7/3),		
SS 12			WOH/6"-1-	1 13	199.2_	40-		CLAY, silty ( (10YR 7/4), m contains traces	CL-ML)- Noist, soft, not soft SAND	Very pale bronedium plast	own cicity,		
SS 13	•		3-3-3	10.5	194.5_	45 —		SAND, silty, o	clayey (SCose, fine gra	- <b>SM)</b> - Yellovained, low pl	w (10YR lasticity,		
ss	•		3-10-10	15	LOUTE	-		CLAY, silty v brown (10YR			ery pale ow	a depth of	circulation at of 48.5 feet
	RED BY: A. 'ED BY: P. I				SITE			Units 3 & 4 Co Final Log		t		HOLE NO	1125
						76 of	<i>i</i> Z4						



GE	(	OTECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4 (	COL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO 2 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT		DN AND CLASSIFICAT lassification adjusted based on esting data and/or re-examination y field geologist/engineer )	ION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS 15	X		5-8-9	18		55—		tains shell hash, +HCL ale yellow (2.5Y 8/4), d	amp,	Water level depth at end of 01/19/07 = Ground surface Water level depth at end of 01/19/07 = Ground surface Reamed hole to a depth of 50.0 feet
SS 16	X	<b>A</b>	7-12-14	17	179.2	60-	SAA except pa	ale yellow (2.5Y 8/3)		depth of 50.0 feet using a 4" drill bit. Installed 4" steel casing to a depth of 50.0 feet
SS 17	X	<b>A</b>	8-16-25	16	179.2_	65	SAND, clayey damp, dense, i plasticity, cont +HCL	(SC)- Pale yellow (2.5 ine to medium grained, ains abundant shell frag	SY 8/2), low gments,	
SS 18	X	<b>A</b>	14-23-20	15		70-	SAND, with c 8/2), moist, de plasticity, cont +HCL	lay (SP-SC)- Pale yello nse, fine to medium gra ains abundant shell frag	ow (2.5Y ined, low gments,	
SS 19	X	<b>A</b>	6-7-9	18	164.2_	75	SAA except ve medium dense	ery pale brown (10YR 8 , fine grained	3/3),	
SS 20	X	<b>A</b>	10-10-20	22		80-	SAND, with c (10YR 8/2), da plasticity, +HO	lay (SP-SC)- Very pale amp, dense, fine grained L	e brown d, low	
SS 21	X		27-50/2"	14	154.2_	85	SAA except vo	ery pale brown (10YR 8	3/3), very	Top of Utley
SS 22	×		50/5"	6	149.2_	90-0	*SHELL HAS - Very pale bro- fine grained S.	SH, with clay and sand own (10YR 8/4), wet, v AND, +HCL	l (GP-GC) ery dense,	Top of Utley Limestone at a depth of 86.8 feet
SS 23	X		17-13-50/4"	12	144.5_	95	*SAND, with (10YR 7/4), m grained, conta fragments, +H	silt (SP-SM)- Very pal oist, dense, medium to ins abundant shell hash CL	e brown coarse and	Top of Blue Bluff Marl at a depth of
SS 24	X		9-14-50/3"	14		100-	SILT (ML) - 6 6/1/10Y), dry, +HCL	Greenish gray (GLEY1 hard, contains minor sh	nell hash,	96.5 feet
SS 25	X	<b>A</b>	9-11-16	22	SITE	105 —	SAA except greery stiff  gtle Units 3 & 4 Co	OL Project	/1/10Y),	HOLE NO.
						77 of 72	Final Log			B-1125



THE DESCRIPTION AND CLASSIFICATION CHARA DRILLIN ATT LIMITS %	R LEVELS, ACTER OF NG AND ACTORY
SS     SAA except dry to damp, hard, low plasticity	
SS Z 27	
SS × 21-50/4" 16 SAA except contains trace of shell hash	
29 125—135 SATE SACEPT COMMAND LIGHT MASSI	
SS V/ 12-23-44 19 SAA	
109.2	
SS 31 *SILT, with cemented fragments (ML)-Greenish gray (GLEY1 6/1/10Y), dry, hard, +HCL	
SS X 16-50/4" 11 CLAY, silty (CL-ML)- Greenish gray (GLEY1 6/1/10Y), damp, hard, low plasticity, +HCL	
SS 33 SAA 145— SAA	
SS 34 SAA except very stiff, medium plasticity  9-12-16 25 91.0 Boring terminated at 150 feet	
SITE Vogtle Units 3 & 4 COL Project Final Log  B-	



GE	ОТ	ECHN	ICAL LC	<b>1</b> C	ROJEC V <b>ogtl</b>		3 & 4	C(	OL Project	JOB NO. <b>6141-(</b>	06-0286	SHEET NO		E NO. -1126
LOGGE	) BY	M. Ha	arvov			DINATES			67.7 E 6219	20 <i>1</i>	BEGUN 1/5/200	7	1/10/200	
DRILLEF	₹	IVI. 113	aivey	[	DRILL	MAKE AND			HOLE DIAME		HAMMER SE			<i>T</i> TAL DEPTH
			MACTEC			C	ME-	75	3 Iı	nches		211797		150.0
GROUNI 21	9.9	DEPTH/E ▼ /	EL. GROUND WA	ATER SIT	IE:				Vogtle Electr	ric Gene	erating Pla	ant - Wa	vnesboro,	GA
													<u>,                                      </u>	
SAMP. TYPE AND NO.	SAMPLE +	N-VALUE WATER C ATT. LIMIT FINES %	ONTENT %	1st 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIO (* = field cla laboratory te of sample by	assification adiu		ION	NOTES ON WATER LEY CHARACTE DRILLING A LABORATO TESTING	VELS, ER OF AND
		20 40	60 80			219.9								
SS 1 SS 2 SS 3		Ā <b>A</b>		9-10-10 7-10-10 9-13-17		219.4 <sup>-</sup> 216.6_ 214.4	- - - 5—		GRAVEL (GP SAND (SP) - R dense SAA except rec SAND, clayey pale yellow (10	d (2.5YR 4	√6), dry, med 4/8) 1 (2.5 VR 4/8		Top of Fill a 0.0 feet Top of Barn Group at a d 0.5 feet	well
ss		<b>A</b>		14-13-13	11	214.4_	-	///	SAND (SP) - R dense, fine to c	ed (5YR :	5/8), damp, m	nedium		
4     SS   5		<b>A</b>		9-9-17	10	211.9_	- - 10-		SAND, with cl damp, medium	ay (SP-SO	C)- Red (2.5Y	7R 5/8),		
ss		<b>A</b>		8-9-12	4	209.4_	-		SAND, clayey 6/8), damp, me	(SC)- Red dium dens	ddish yellow se	(7.5YR		
SS 7		<b>A</b>		7-8-8	7		- - 15-		SAA except broyellow (2.5Y 8)	own (7.5Y /2)	(R 5/8) and p	ale		
SS 8		<b>A</b>		7-7-9	8	202.9_	20-		SAND (SP) - B moist, medium	rownish y dense	ellow (10YR	. 6/6),		
SS 9	<b>^</b>			2-4-5	18	193.4_	25-		CLAY (CL) - I 8/1/5GY), dam	Light gree p, stiff, -H	nish gray (GI ICL	LEY1		
SS 10	4	<b>\</b>		21-7-7	13	187.9_	30-		SAND, silty (S damp, medium and coquina, +1	M)- Pale dense, co HCL	yellow (5Y 8 ntains shell fi	7/2), ragments	Loss of circuadded drilling	ılation, ıg fluid
SS 11	<b>^</b>			3-4-6	18	182.9_	35-		SAND, clayey damp, medium	(SC) - Pal dense, -H	e yellow (5Y CL	7/4),		
SS 12		•		8-12-16	11	177.9	40-		*SHELL HAS yellow (5Y 8/3	H, with c ), damp, n	lay (GP-GC) nedium dense	Pale e, +HCL	Loss of circu a depth of 38	
SS 13			<b>A</b>	17-31-40	0		45-		NO RECOVE	RY				
SS	\ \	<b>A</b>		15-17-19	10	172.9_	- - -		<b>SAND, silty, c</b> l (2.5Y 8/4), moi				Installed 4" casing to a d	steel lepth of
		Y: A. TAYLO /: P. DEPRE				SITE	V <del>79 of</del>		e Units 3 & 4 CC Final Log		t		HOLE NO. <b>B-1</b> ]	126



GE	EC	TECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	l CO	JOB NO.   S DL Project   6141-06-0286	SHEET NO	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATIO  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS 15	X	20 40 00 30	16-13-14	11		55—		fragments, +HCL SAA		
SS 16	X	<b>A</b>	8-9-9		162.9_ 157.9_	60-		SAND, with clay (SP-SC)- Reddish yel (7.5YR 6/6) and white (7.5YR 8/1), moi wet, medium dense	llow ist to	Water level depth at end of 01/08/2007 = Ground surface
SS 17	X	<b>A</b>	9-5-11	14	152.9_	65-	V	SAND (SP) - Pale yellow (2.5Y 8/1), we medium dense, contains traces of fines,	et, -HCL	
SS 18	X	<b>\</b>	3-1-1	18	147.9_	70-		SAND, with clay (SP-SC)- Pale brown (10YR 7/3), wet, very loose, -HCL		Encountered cemented layers from 69 to 69.5 feet. Loss of circulations at a depth of 69.5 feet
SS 19	X	<b>A</b>	5-7-18	8		- 75— -		CLAY, sandy(CL)- Dark olive brown (3/3), moist, very stiff, -HCL	(2.5Y	depth of 69.5 feet. Encountered cemented layers from 72 to 74 feet and continued loss of circulation Casing advanced to a
SS 20	_		50/1"	1	141.4_	80-		CLAY (CL) - Dark greenish gray (GLE 4/1/10Y), wet, hard, contains limestone,	<u>₹</u> 1 +HCL	Casing advanced to a depth of 76.0 feet, circulation reestablished Top of Blue Bluff Marl at a depth of 78.5 feet
SS 21	X	<b>A</b>	19-22-29	18		85—		SAA except damp, contains shell fragme	ents	
SS 22		,	50/1"	1		90-		SAA		Cemented layers
SS 23	X	<b>*</b>	12-20-22	18		95—		SAA except greenish grey (GLEY1 5/1/	(10Y)	
SS 24			11-19-50/1"	18		100-		SAA		
SS 25	X	•	11-50/1"	17		- 105—		SAA		
					SITE	80 of	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1126</b>



GE		TECHNICAL LO	$\frown$	OJE(		3 & 4		SHEET NO.		
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" _ I	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26			50/1"	6		110-		SAA except contains some limestone lense	es	
SS 27	X	<b>A</b>	40-44-48	18		115-		SAA except (GLEY1 6/1/10Y)		
SS 28	X		32-30-50/1"	18	97.9_	120-		SAA		
SS 29	X	<b>A</b>	12-13-15	18	)1.9 <u>_</u>	125-		CLAY, silty (CL-ML)- Greenish gray (5Y 5/1.5), damp, very stiff	Y	
SS 30	X	<b>A</b>	14-21-30	18		130-		SAA except hard		Water level depth at end of 01/09/2007 = Ground surface
SS 31	X	<b>A</b>	26-28-27	18		135-		SAA		Ground surface
SS 32	X	<b>A</b>	11-13-18	18	77.9_	140-		SAA		
SS 33	X	<b>A</b>	13-13-40	11	72.9_	145-		SAND (SP) - Greenish black (GLEY1 2.5/1/10Y), wet, very dense, +HCL		Top of Still Branch Formation at a depth of 142 feet
SS 34	X	<b>A</b>	12-31-25	13	69.9_	150-		SAND, clayey (SC)- Very dark greenish g (GLEY1 3/1/10Y), wet, very dense, contain clay lenses, -HCL Boring terminated at 150 feet	gray	Water level depth at end of 01/10/2007 = 65.0 feet
					SITE	81 of		e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1126</b>



	PROJEC		2 P. 4 CO		NO. <b>141-06-0286</b>	SHEET NO.	HOLE NO.
		DINATES	3 & 4 CU	DL Project 61	BEGUN	1 OF	3 B-1127 COMPLETED
M. Herrera	DDILL	MAKE AND	N 114357	13.3 E 622332.3		006 ERIAL NUMBE	11/30/2006 R TOTAL DEPTH
Burnett-Gregg Drilling	DKILL		ME-850	3 Inch		165952	150.0
GROUND EL. DEPTH/EL. GROUND WATER S	ITE:						1
219.7 💆 /			<u> </u>	<b>Vogtle Electric</b> (	Generating Pl	lant - Way	nesboro, GA
A N-VALUE (SPT)  O WATER CONTENT %  Page 6-10-10-10-10-10-10-10-10-10-10-10-10-10-	3rd 6" ≒ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AI  (* = field classifica laboratory testing de of sample by field g	ND CLASSIFICATition adjusted based on ata and/or re-examination eologist/engineer)	TION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS (6-8-6	16.5	219.7	_	ASPHALT paveme	ent and GRAVEL		Top of Fill at a depth of 0.0 feet.
1 SS 2 8-7-7 SS A 4 7-8-6		217.7_ 216.2_	-	SAND, silty (SM)- 5/6), damp, medium yellow (10YR 7/6)	n dense, contains t SAND	1 (10YR traces of	Top of Barnwell Group at a depth of 2.0 feet.
SS \( \sqrt{9-12-1:} \)	5 15		5	SAND, clayey (SC 5/6), damp, mediun yellow (10YR 7/6) SAA except red (2 strong brown (7.5Y	)- Yellowish brown dense, contains to SAND	vn (10YR traces of	
SS 9-12-2	3 16		10	strong brown (7.5Y SAA except dense	R 5/8) SAND		
SS 6 14-14-2	20 19		10	SAA			
SS 7 10-11-1	13 15		15	SAA			
SS 8 10-12-1	12 15	201.7_	20-	*SAND, with silt (10YR 5/8), dry, mograined, rounded	———————SP-SM)- Yellowi edium dense, 40%		Water level depth at end of 11/28/2006 =
SS 9 6-6-6	12	192.7_	25-	SAND, silty (SM)-5/6), damp, mediur grained, rounded	Yellowish brown n dense, 40% coa	n (10YR rse	Ground surface Water level depth at beginning of 11/29/2006 = 4.25 feet
SS 10 A 3-2-4	20		30-	CLAY, with sand (10YR 6/8), damp, plasticity	(CL)- Brownish y medium stiff, med	vellow dium	
SS 11 A 3-3-5	27	182.7_	35-	SAA except browning	ish yellow (10YR	6/6),	
SS 12 4-3-4	20		40-	CLAY, sandy (CL moist, medium stiff	)- Yellow (10YR , medium plastici	7/8), ty	
SS N 5-6-5	16	177.7_	45	SAND, clayey (SC 6/8), moist, medium rounded	)- Brownish yello dense, 50% coar	w (10YR rse grained,	
SS 5-8-10	) 18			SAA except 40% co	parse grained		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vogtle	Units 3 & 4 COL P Final Log	roject	ŀ	HOLE NO. <b>B-1127</b>



GEC	OTECHNICAL LO	<u> </u>	OJEC		3 & A C	OL Project   JOB NO.   SHEET NO.   SHEET NO.   2 OI	
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" ±	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 60 80			167.7	-///		
ss X	<b>A</b>	14-14-20	13	107.7_	55	SAND, with silt (SP-SM)- Yellow (10YR 7/8), wet, dense, 40% coarse grained, rounded	
SS X	<b>A</b>	10-14-18	12		60-	SAA except brownish yellow (10YR 6/8)	
SS X	<b>A</b>	8-11-18	11	150.7	65—	SAA except brownish yellow (10YR 6/6), wet, medium dense, 50% coarse grained, rounded	
SS X	<b>A</b>	4-4-4	14	152.7_	70-	SAND, clayey (SC)- Pale yellow (2.5Y 7/3), wet, loose, rounded	
SS X	<b>A</b>	5-8-12	13		75-//	SAA except medium dense	
SS Z	<b>A</b>	12-15-25	27	141.7_	80-	SILT (ML) - Dark greenish gray (GLEY) 4/1), dry, hard, low plasticity	Top of Blue Bluff Marl at a depth of 78.0 feet.
SS 21	<b>A</b>	29-19-29	27		85 —	SAA	
ss ×		15-50/3"	20	132.7_	90-	*CLAY, with shells and cemented fragments (CL) - Dark greenish gray (GLEY1 4/1), dry, hard, low plasticity	
ss ×		22-50/2"	12		95-	SAA except greenish gray (GLEY1 5/1), medium plasticity	
SS X		20-50/6"	19	122.7_	100-	CLAY (CL) - Greenish gray (GLEY1 5/1), dry, hard, medium plasticity	
SS X	<b>A</b>	20-40-32	27		105-	SAA	
				SITE	Vogt	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1127</b>



GE		TECHNICAL LO	~	OJE(		3 & 4	C C	JOB NO.   SHI DL Project   6141-06-0286	EET NO.	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6"	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	,	10-50/3"	24		110-		SAA except damp		
SS 27	X	•	17-32-36	25	102.7_	- - - 115 –		SAA		Water level depth at end of $11/29/2006 = 3.0$ feet
SS 28	×	•	50/3"	0	97.7_	120-	-	NO RECOVERY		Water level depth at beginning of 11/30/2006 = 27.0 feet
SS 29	X	<b>A</b>	14-21-28	27	771	125-		SAA except greenish gray (GLEY1 6/1)		
SS 30	X	•	15-15-45	27		130-		SAA except dry		
SS 31	$\boxtimes$		15-50/6"	24		135-		SAA except damp		
SS 32	X	<b>A</b>	10-15-18	27		140-		SAA except dry		
SS 33	X	•	11-15-50/5"		76.7_	145-		SAND, clayey (SC)- Very dark grayish gr (GLEY1 3/2), damp, very dense, rounded, plasticity	reen , low	Top of Still Branch Formation at a depth of 143.0 feet.
SS 34	X	<b>A</b>	9-13-28		69.7_	150-		SAA except greenish black (GLEY1 2.5/1 dense, medium plasticity Boring terminated at 150 feet.	.),	
					SITE	v	ogtl	e Units 3 & 4 COL Project		HOLE NO.
						84 of		Final Log		B-1127



GE	OTECHNICAL LOG	PROJ <b>V</b> og		3 & 4 CO	L Project	JOB NO.	6-0286	SHEET NO.		HOLE NO. <b>B-1128</b>
LOGGE	O BY		RDINATES	<u> </u>	Litojece	01110	BEGUN	1 01	COMPLI	
חחווו בו	S. Woodham	DDII	L MAKE ANI		2.7 E 62268		1/10/200	<b>)7</b> ERIAL NUMBE	1/10/2	
DRILLEF	White-MACTEC	DKII		CME-55		ches		331145	=K	73.0
GROUN	D EL. DEPTH/EL. GROUND WATER	SITE:		JIVIL 33	3 111	CHCS		001143		75.0
21	8.3 💆 /				Vogtle Electr	ic Gene	rating Pl	ant - Way	nesbo	ro, GA
SAMP. TYPE AND NO.	○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	2nd 6" O 3rd 6" A	ELEVATIO IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION (* = field clas laboratory test of sample by f	sification adjus		ION		LEVELS, CTER OF IG AND ATORY
SS	20 40 60 80	11-12 2	218.3		SAND, silty (SN 5/8), damp, med	M)- Stron	g brown (7.5	SYR .	Top of E	Barnwell
$\begin{vmatrix} 1 \\ SS \end{vmatrix}$	9.	-8-10 2		] ] ]	SAA samp, med	lium dens	e, fine graine	ed	0.0 feet	t a depth of
SS 2 SS 3	<b>A</b> 2	2-5-4 1	215.0_	5	<b>SAND, silty, cla</b> (7.5YR 5/8), dan	ayey (SC-mp, loose	brown			
SS 4	<b>A</b> 3	3-3-4 1	3		SAA					
SS 5	<b>A</b> 3	3-4-5 1	207.8	10	SAA except Yel	llow (10Y	R 7/8)			
ss	<b>√ ▲</b> 3	3-4-4 1	_		CLAY, with sa 2.5Y 7/8) damp	- – – – - nd (ÇL)-	Yellow (5Y	and		
6			205.3_		plasticity					
SS 7		2-3-5 2	202.3_	15—	CLAY, silty (C damp, medium s	<b>L-ML)-</b> I stiff, high	Pale yellow ( plasticity	(5Y 7/3),		
SS 8	6	-7-10 2	196.5_	20-	CLAY, silty (C damp, very stiff fragments	<b>L-ML)-</b> I , low plas	Pale yellow (ticity, contai	5Y 8/3), ins shell		
SS 9	8	3-8-9 2	191.5_	25-	SAND, clayey (damp, medium oshell fragments	SC) - Paledense, find	e yellow (5Y e grained, co	18/3), intains		
SS 10	3.	-5-10 2	186.5_	30-	CLAY, silty (C damp, very stiff fragments	<b>L-ML)-</b> I , low plas	Pale yellow ( ticity, contai	5Y 8/3), ins shell		
SS 11	10-	-27-14 2		35-	SAND, clayey (damp, dense, fir fragments, +HC	SC) - Pale ne grained L	yellow (5Y, contains sh	8/4), ell		
SS 12	10	-15-18 1		40-	SAND, silty (SI moist, dense, fir	M)- Pale y	yellow (5Y 8 um grained,	5/3), +HCL		
SS 13	12.	-16-21 1	5	45-	SAA					
ss	9-	11-21 1	1		SAA except pale	e yellow (	5Y 7/3), dar	np		
	RED BY: A. TAYLOR		SITE	Vogtle	Units 3 & 4 CO	L Project	t	1	HOLE NO	
REVIEW	/ED BY: P. DEPREE			05 - f <b>5</b> 0 /	Final Log				B-	-1128



GE	OTECHNICAL LO	OJEC ogtl		3 & 4	C	JOB NO.   SH DL Project   6141-06-0286	1EET NO.  2 OF		
SAMP. TYPE AND NO.	☐ FINES %	1st 6" -z 2nd 6" O 3rd 6" z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	1	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 60 80			166.5_	-				Installed 3" steel casing to a depth of 50.0 feet
SS 15	<b>A</b>	8-9-14	16	161.5_	55—		CLAY, silty, sandy (CL-ML)- Yellow (2 7/8), damp, stiff, high plasticity, contains fragments, +HCL	2.5Y shell	
SS 16	<b>▲</b>	4-10-11	24	156.5_	60-		SAND, clayey (SC)- Yellow (2.5Y 7/6), damp, medium dense, contains shell fragn+HCL	nents,	
SS 17	<b>A</b>	17-11-13	26	151.5_	65—		CLAY, silty (CL-ML)- Pale yellow and of yellow (5Y 7/5 and 6/8), damp, very stiff, plasticity, contains shell fragments, +HCL	olive , high	
SS 2	4	21-50/4"			70-		CLAY, sandy (CH)- Yellow (5Y 8/6), da hard, high plasticity, +HCL		Loss of circulation at
				145.3_	-		Boring terminated at 73.0 feet. Casing sho in hole. Hole abandoned and offset 3 feet		Loss of circulation at a depth of 73.0 feet See B-1128A for continuation
		<u> </u>		SITE	86 of		e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1128</b>



	OTFOLINION LOG	PROJEC	T				JOB NO.		SHEET NO.	F	HOLE NO.
	OTECHNICAL LOG	v ogu		3 & 4	CC	L Project	6141-0	06-0286	<b>1</b> OF	B-1128A COMPLETED	
LOGGED		COOR	DINATES	NI 114	257	27 E (22)	05 5	BEGUN			
DRILLER	S. Woodham	DRILL	MAKE AND			3.7 E 6226	ETER	1/11/200 HAMMER SE	J / ERIAL NUMBE	1/15/2007   BER   TOTAL DEPTH	
	White-MACTEC		C	ME-5	55	4 I	nches		331145		148.8
GROUNE	DEL. DEPTH/EL. GROUND WATE	R SITE:					• ~		. ***	_	G.
217	7.9 ♀ /					Vogtle Elect	ric Gene	erating Pi	ant - Way	nesbo	ro, GA
SAMP. TYPE AND NO. SAMPI F	○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" 5 2nd 6" 2 3rd 6" 4 RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field cl laboratory te of sample by	lassification adiu		TION	NOTES WATER CHARA( DRILLIN LABORA TESTIN(	LEVELS, CTER OF IG AND ATORY
	20 40 60 80		217.9	5- 5- 10- 15- 20- 25- 33- 40- 45-		SEE B-1128 F					
PREPAR	L :		SITE	V	ogtle	Units 3 & 4 CO		rt .	F	HOLE NO	
REVIEW	ED BY: P. DEPREE			A= -6		Final Log				<b>B</b> -1	1128A



GEO	OTECHNICAL LOC	~	OJEC ogtl		3 & 4	CO	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 OR	
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -x 2nd 6" C 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
				146.9	55 — 60 — 65 — 70 —			Loss of circulation at a depth of 71.0 feet
ss 1	<b>A</b>	4-6-10	16	141.4_	75-		CLAY, sandy (CL)- Pale yellow (5Y 8/3), damp, very stiff, low plasticity, contains shell fragments, +HCL	
SS 2		5-11-50/4"	26		80-		CLAY (CH) - Greenish gray (GLEY1 5/1), damp, hard, high plasticity, +HCL	Top of Blue Bluff Marl at a depth of 76.5 feet  Water level depth at end of 01/11/07= Ground surface
SS 3	<b>A</b>	10-12-14	26		85 <del>-</del>		SAA except very stiff	Water level depth at beginning of 01712/07= 17.0 feet
SS 4	_	50/3"	5		90-		SAA except hard, contains shell fragments	
SS 5	<b>A</b>	8-11-13	26		95-		SAA except very stiff	
SS ×		11-50/4"	18		100-		SAA except hard	
SS 7		20-28-50/5"			105		SAA except contains some cemented layers	
	<u>                                     </u>	<u> </u>		SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1128A</b>



GE	EC	OTECHNICAL LO		OJEC ogtl		3 & 4	C C	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - 5 2nd 6" 0 3rd 6" - 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 8	X	20 40 00 80	48-50/1"	12		110-		SAA except greenish gray (GLEY1 6/1), no cemented layers or shell fragments	
SS 9	X	<b>A</b>	8-13-14	20		115-		SAA except very stiff	
SS 10	X		12-27-50/3"			120-		SAA except hard	
SS 11	X	<b>A</b>	8-27-23	24		125-		SAA except light greenish gray (GLEY1 7/1)	
SS 12	X	<b>A</b>	11-19-29	24		130-		SAA	
SS 13	X	<b>A</b>	21-26-26		81.2_	135-		SAA	
SS 14	X	<b>A</b>	10-13-14	18		140—		CLAY (CL) Olive gray (5Y 5/2), damp, very stiff, +HCL	
SS 15	X	<b>A</b>	6-9-32	18	76.2_	- - 145—		SAND, clayey (SC) - Dark greenish grey (GLEY1 4/1), damp, dense, fine to medium grained, -HCL	Top of Still Branch Formation at a depth of 141.75 feet
SS 16	×		50/3.5"		71.2_ 69.1_	-		SAND, silty (SM) - Dark gray (2.5Y 4/1), damp, very dense, fine grained, -HCL Boring terminated at 148.80 feet	
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1128A</b>



	· ^ -	ECHNICAL I O	C PR	OJEC	СТ				JOB NO.		SHEET NO	.   1	HOLE NO.
		ECHNICAL LO				3 & 4	C	OL Project	6141-0	06-0286	<b>1</b> OF	OF 2 B-1129	
LOGGE	D BY	M Hawsa-	C	OOR	DINATES	N 114	225	70 ) F (310	002.7	BEGUN 1/2/200	7		
DRILLE	R	M. Harvey	D	RILL	MAKE AND			78.2 E 6218 HOLE DIAM		1/3/200 HAMMER S	17 ERIAL NUMB	1/4/2 ER	007 TOTAL DEPTH
		Warren-MACTEC				CME-7		31	nches		211797		100.0
GROUN			TER SITI	E:				Va =41 - 121 - 4					
22	21.8	♀ / ▼ /						Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	ro, GA
SAMP. TYPE AND NO.	ш	N-VALUE (SPT)  WATER CONTENT %	1st 6" - <del>7</del> 2nd 6" <u>0</u> 3rd 6" <u>7</u>	RECOVERY (in)	ELEVATION IN FEET	IN FT	GRAPHICS	DESCRIPTIO		I ASSIEICAT	TION		ON: LEVELS, CTER OF
SAMP		- ATT. LIMITS %	3.6	ECOV	ELEV	DEPTH IN	GRAF	( * = field c	lassification adiu			DRILLIN LABOR TESTIN	NG AND ATORY
		] FINES % 20₄ 40 60 80		œ	221.8							IESTIN	G
SS 1	M		12-13-12	12	220.3	_	7.	GRAVEL, wi 4/6), dry, med	ium dense			Top of I	Fill at a depth
SS 2 SS		<b>A</b>	12-16-18 12-17-20	18		- - -		SAND, with s 10R 4/8), dry, SAA except re (7.5YR 6/8)	ilt (SP-SM dense	I)- Red (2.5\) 4/6) to reddis	R 4/6 to	Top of I	Barnwell t a depth of
3 SS		<b>A</b>	12-10-8	12		5-		(7.5YR 6/8) SAA except by					
4 SS		<b>A</b>	11-15-18	14		-		SAA except of red (2.5YR 4/8	range brow	vn (7.5YR 5.:	5/8) and		
5 SS	X	<b>A</b>	14-24-26	11	211.3_	10-		SAND, silty (					
6 SS	X	<b>A</b>	11-17-21	14	208.8_	-		very dénse SAND, with s dry, dense	ilt (SP-SM	 I)- Red (2.5Y	 ('R 4/8),		
7					204.8_	15-							
SS 8	X	<b>A</b>	8-10-10	10	100.0	20-		SAND, silty (sidense	SM)- Red	(2.5YR 4/8),	damp,	Water le	evel depth at 1/03/2007 =
SS 9	X	<b>A</b>	10-17-18	0	199.8_	25-	H.15	NO RECOVI	ERY			Water le beginnin 01/04/20 Borehol	evel depth at ng of 007 =
SS 10	X	<b>A</b>	7-11-8	7	194.8_	30-		SAND, with s 5/8), damp, me	ilt (SP-SM edium dens	<b>I)-</b> Brown (7	.5YR		
SS 11	X	<b>A</b>	7-8-10	10	184.8	35—		SAA except b	rownish ye	llow (10YR	6/8)		
SS 12	X ·	<b>A</b>	5-5-7	13		40-		CLAY (CL)-	Yellow (1	 0YR 7/8), da	mp, stiff		
SS 13	X	<b>A</b>	5-9-10	5	179.8_	45—		SAND, with s 7/8), damp, mo	ilt (SP-SM edium dens	 <b>I)-</b> Yellow (1 se	0YR		
SS	X	<b>A</b>	5-8-8	8		- - -		SAA					
PREPA	RED I	BY: A. TAYLOR			SITE	V	ogtl	e Units 3 & 4 C		et		HOLE NO	
REVIE	VED E	BY: P. DEPREE				90 of	<del>794</del>	Final Log	5			R-	-1129



OL.	:U	TECHNICAL LO		ojec ogtl		3 & 4	C	JOB NO. SHEET 6141-06-0286 2	NO. HOLE NO. B-1129
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" ±	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS 15	X	<b>A</b>	10-10-17	8	169.8_	- - - -		SAND (SP) - Yellow (2.5Y 8/4) and light red (10R 6/8), damp, medium dense, -HCL	
SS 16	X	<b>A</b>	10-12-16	9		55-		SAA	
SS 17	X	<b>A</b>	12-15-17	8	1540	65—		SAA except dense	
SS 18	X	<b>A</b>	10-12-16	12	154.8_ 149.8	- - 70-		SAND, silty (SM) - Pale yellow (2.5Y 8/4), moist to wet, medium dense, -HCL	
SS 19	X	<b>A</b>	10-18-25	12	145.0_	75 —		SAND (SP) - Pale yellow (2.5Y 8/3), wet, dense, -HCL	
SS 20	×		50/4"	8	140.1_	80-		*SHELL HASH, silty (GM)- Pale yellow (2.5Y 8/4), wet, very dense, +HCL	Top of Utley Limestone at a dep of 76.8 feet
SS 21	X	<b>A</b>	25-30-31	18		85 —		CLAY (CL)- Greenish gray (GLEY1 5/1 to GLEY1 5/1/5GY), damp, hard, contains trace of shell hash, +HCL	Top of Blue Bluff Marl at a depth of 81.7 feet
SS 22	X	<b>A</b>	30-40-45	18		90—		SAA	
SS 23	X	<b>A</b>	15-24-36	18		95 <del>-</del> 95 -		SAA	
SS 24	X	<b>A</b>	10-15-17	18	121.8_	100-		SAA Boring terminated at 100 feet	
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1129</b>



	OTECHNICAL LOC	PROJEC	CT			JOB NO.		SHEET NO	. HOLE	NO.
				3 & 4 CO	OL Project	6141-0	06-0286	<b>1</b> OF		1130
LOGGED		COOR	DINATES	N 11 10 11	00 D (00)	.50.0	BEGUN	_	COMPLETED	1
DRILLER	G. Pillappa	DRILL	MAKE AND	N 114248	82.8 E 6222 HOLE DIAM		3/8/200 HAMMER SE		3/9/2007 ER TOT	AL DEPTH
	Banks-MACTEC			ME-550		Inches		337153		99.2
GROUNE	D EL. DEPTH/EL. GROUND WATER S	ITE:								
217	7.5 🛂 /				Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesboro, (	GA
l	▲ N-VALUE (SPT)	(r								
	N-COUN E	π (¨) - - - - -	NO!!!	N FT					NOTES ON: WATER LEV	ELS.
SAMP. TYPE AND NO.	O WATER CONTENT %	3rd 6" ≒ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN F	DESCRIPTIO	ON AND CL		ION	CHARACTER DRILLING AI	R OF
SAN			빌목	DEP GR	laboratory to	esting data and/or y field geologist/o	r re-examination engineer)		LABORATOR	
	☐ FINES % 20 40 60 80		217.5						TESTING	
SS	6-7-10	18	217.3		SAND, clayey medium dense	(SC)- Rec	1 (2.5YR 4/8)	), dry,	Top of Barny	vell
	4-18-3	9   18			SAA except v	ery dense	ied, iow piast	icity	Group at a de 0.0 feet	pın oı
SS 2 SS 3	11-19-1	13 16		5-//	SAA except d	ense				
SS 4	9-14-1	4 16		-//	SAA					
SS 5	7-9-11	1 17		10-	SAA					
	7-9-9	16	204.5	-//	SAA except re	ed (10R 4/8	3)			
SS 7	4-5-6	15	20	15—	SAND, silty (s dry to damp, r nonplastic	SM)- Yello nedium der	owish red (5) nse, fine grain	7R 5/8), ned,		
SS 8	4-8-12	1 11.5		20-	SAA except st low plasticity, phosphate gra	rong brown contains C ins	n (7.5YR 5/8 LAY seams	), damp, and trace		
SS 9	5-11-2	0 11	100.5	25-	SAA except d	ense				
UD 1		16	190.5_	30-	*SAND, claye (10YR 6/8), d -HCL Pocket Penetro			ow lasticity,	Direct Push	
UD	0	25	185.5_ 183.0		CLAV sands	(CL)- Bro		 v (10VR	Direct Push	
2			163.0_	35-	CLAY, sandy 6/8), damp, lo Pocket Penetro *SAND, with (10YR 6/8), do	clay (SP-S	(C)- Brownis	h yellow		
UD 3	0:	19		40-	SAA except li yellow (7.5YF Pocket Penetro	ght red (10 8 6/6), low ometer: 1.0	R 6/6) to bro plasticity TSF	wnish	Direct Push	
SS 10	3-3-6	11		45-	SAA except y	ellowish br	own (10YR :	5/8), loose		
ss	3-4-4	18			SAA except p	ale yellow	(2.5Y 7/4)			
PREPAR	RED BY: A. TAYLOR		SITE	Vogtl	e Units 3 & 4 C		t		HOLE NO.	20
REVIEW	ED BY: P. DEPREE			92 of 724	Final Log	<u> </u>			B-11	<u> 30</u>



GI	ΞC	TECHNICAL LOC	<u> </u>	OJEC ngtl		3 & 4	l CO		ET NO. <b>2</b> OF	HOLE NO. 2 B-1130
SAMP. TYPE AND NO.	SAMPLE		1st 6" -7 2nd 6" O 3rd 6" -4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	1 (	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 12	X	<b>A</b>	1-2-4	18	160.5	- - - 55—		SAA		
SS 13	X	<b>A</b>	9-12-11	11	155.5_	60-		SAND, with silt (SP-SM)- Brownish yello (10YR 6/8), damp, medium dense, fine granonplastic, contains trace phosphate grains	ow nined,	
SS 14	X	<b>A</b>	1-3-4	18		65-		CLAY, silty with sand (CL-ML)- Pale ye (5Y 7/3), damp, medium stiff, low plasticit fine grained SAND, -HCL	ellow ty,	
SS 15	X,	<b>A</b>	1-3-1	17	145.5_	70 <del>-</del>		SAA except soft, contains shell fragments	1	Loss of circulation at a depth of 70.0 feet. Reamed hole with a "" drill bit. Installed to a tepth of 75.0 feet
SS 16	X	<b>A</b>	7-26-3	8.5		75—		SAND, clayey (SC) - Pale yellow (5Y 8/2), damp, medium dense, fine to medium grain low plasticity, contains shell fragments, +H	i,	Top of Utley Limestone at a depth of 72.0 feet
SS 17	X		1-21-50/2"	8	136.5_	80-		SAA except pale yellow (5Y 7/3), very der contains shell fragments and calcareous limestone		Top of Blue Bluff Marl at a depth of
SS 18	X	<b>A</b>	19-30-42	18		85 —		CLAY, silty (CL-ML)- Dark greenish gra (GLEY1 4/5GY), damp, hard, low plasticit contains trace shell fragments, phosphate grains, and SAND and CLAY seams, +HC	ty, St.	Water level depth at end of 3/8/07 = Top of easing
SS 19	$\boxtimes$		31-50/2"	8		90—		SAA except contians many shell fragments	S I	Water level depth at beginning of 3/9/07 = Borehole dry
SS 20	X		9-11-13	18		  95  		SAA except dry to damp, very stiff		
SS 21	X		9-50/2"	10	118.3_	-		SAA except hard Boring terminated at 99.17 feet		
					SITE	v	ogtl	e Units 3 & 4 COL Project	Н	OLE NO.
						93 of	_	Final Log		B-1130



GEOTECHNICAL LOG Vogtle Un	ita 3 R. 1 COI Dr	oiget   6141 0	6-0286 1 OF	D. HOLE NO. B-1131
LOGGED BY COORDINAT	its 3 & 4 COL Pr	0141-0	BEGUN 1 OF	COMPLETED
M. Harvey  DRILLER DRILL MAKE	N 1143173.0 D	E 621823.1 DLE DIAMETER	1/16/2007 HAMMER SERIAL NUME	1/17/2007 BER TOTAL DEPTH
Warren-MACTEC	CME-75	3 Inches	211797	98.6
GROUND EL. DEPTH/EL. GROUND WATER SITE:	-		outing Diamet XV	CA
222.2 💃 /	<u>vogti</u>	e Electric Gene	rating Plant - Wa	ynesboro, GA
SAMP TYPE AND NO.  SAMP TYPE AND NO.  SAMP TYPE SAMP TYPE  SAMP TY	DES GRAPHICS	CRIPTION AND CL (* = field classification adjus laboratory testing data and/or of sample by field geologist/e	ted based on	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 8-9-9 18	SANI	D, silty (SM)- Red ( um dense	10R 4/6), dry,	Top of Barnwell Group at a depth of
1 SS 2 7-7-10 9 9-13-13 15	- SAA	ani dense		0.0 feet
	6.7 5— SAA			
SS 4 13-28-31 18		D, with silt (SP-SM), very dense, fine to	)- Red (2.5YR 5/6), medium grained	
SS 5 8-19-21 18	SAA fine g	except brown (7.5Y) grained	R 5/6), damp, dense,	
SS 6 8-21-31 7	9.2 SAA dense	except dark brown (	10YR 3/3), very	
SS 7 3-8-10 18		D (SP) - Yellowish roum dense	ed (5YR 5/8), moist,	
SS 8 7-12-13 9 20	5.4. SANI moist	D, silty (SM)- Brow , medium dense	n (7.5YR 4/6),	Installed 4" steel casing to a depth of 17.5 feet
SS 9 7-12-13 11	25— SAA	except yellowish rec	1 (5YR 5/8)	
UD 1 0 26.75	30	except orange (7.5Y	R 6/6)	Direct Push  Removed casing to retrieve UD sample. Reinstalled casing to a
UD 2 7 18	5.4_ SAA	except orange (7.5Y	R 6/8), damp	depth of 30.0 feet Direct Push
UD 3 23.5	40 CLA	Y (CL) - Yellowish	brown (10YR 7/8)	Direct Push  Water level depth at end of 01/16/07 = Ground surface
SS 10 A 3-5-6 18 17	SAA -HCL		5Y 7/4), damp, stiff,	- Sura Suravo
SS 4-6-6 18	SAN	D, silty, clayey (SC-/4), damp, medium (	SM)- Pale yellow dense, -HCL	
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE	<b>Vogtle Units</b>	3 & 4 COL Project al Log	;	HOLE NO. B-1131



GE	EC	OTECHNICAL LO		OJE(		3 & 4	l C(	JOB NO. SHEET N OL Project 6141-06-0286 2 0				
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING			
11					170.4_	-						
SS 12	X	<b>A</b>	4-5-10	14	165.4	55-		SAND, clayey (SC)- Pale yellow (5Y 7/3), damp, medium dense				
SS 13	X	<b>A</b>	7-8-11	12	103.1_	60-		SAND, silty (SM)- Pale yellow (5Y 7/4), damp, medium dense				
SS 14	X	<b>A</b>	10-11-13	12	155.4	65-		SAA except yellow (2.5Y 7/3), -HCL				
SS 15	X	<b>A</b>	6-7-12	11	150.4	70-		SAND, with silt (SP-SM)- Yellow (2.5Y 7/3), medium dense, -HCL				
SS 16	X	<b>A</b>	10-12-13	11	145.4	75-		SAND, clayey (SC)- Pale yellow (5Y 8/4), medium dense, -HCL				
SS 17	X	<b>A</b>	12-14-17	3	140.4_	80-		SAND (SP) - Pale yellow (5Y 8/2), wet, medium dense, -HCL				
SS 18	×		14-50/1"	12	137.2_	- - 85-		CLAY (CL) - Brown (10YR 4/3), hard, -HCL  *SHELL HASH (GP) - Pale yellow (5Y 8/2),	Top of Utlay			
SS 19	X	<b>A</b>	11-16-21	18	133.7_	-		**SHELL HASH (GP)- Pale yellow (31 8/2), +HCL  **CLAY (CL)- Greenish gray (GLEY1 5/1/10GY), damp, hard	Top of Utley Limestone at a depth of 85.0 feet  Top of Blue Bluff Marl at a depth of			
			21 22 27	10		90- - -			88.5 feet			
SS 20	X	7	21-23-27	18		95— -		SAA except moist, contains shell hash, +HCL				
SS 21			50/1"	12	123.6_	-	<i>-(//)</i>	SAA Boring terminated at 98.58 feet				
					SITE	v	ogtl	e Units 3 & 4 COL Project	HOLE NO.			
	Final Log  95 of 724    SITE   Vogtle Units 3 & 4 COL Project   HOLE NO.											



	OTECHNICAL LOC	PROJE	CT			JOB NO.		SHEET NO.	HOLE NO.
GE	EOTECHNICAL LOG			3 & 4 CC	OL Project	6141-0	06-0286	1 OF	
LOGGE		COOR	RDINATES				BEGUN	_	COMPLETED
DRILLE	M. Harvey	DRILL	MAKE AND		HOLE DIAM		1/25/200	<b>)7</b> ERIAL NUMB	1/25/2007 ER   TOTAL DEPTH
DIVILLE	Warren-MACTEC	DIVILL		CME-75		nches		211797	100.0
GROUN	ND EL. DEPTH/EL. GROUND WATER	L SITE:		.WIE-73	211///	100.0			
21	18.7 ♀ /			,	Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesboro, GA
뭐	N-VALUE (SPT) N-COU	3rd 6" \( \frac{2}{3} \)	Ζ.	F S					NOTES ON:
SAMP. TYPE AND NO.	O WATER CONTENT %  - 9 pt 19 pt 1	d6" ERY	ELEVATION IN FEET	DEPTH IN F	DECODIDEIO	NI AND CI	ACCIFICAT	'ION	WATER LEVELS, CHARACTER OF
MP.	W + ATT. LIMITS %	SOVE 3	EV/	PTF RAP	DESCRIPTIO	lassification adjus	sted based on	ION	DRILLING AND
SA	□ FINES %	REC			of sample b	esting data and/or y field geologist/e	engineer)		LABORATORY TESTING
	20 40 60 80		218.7						
SS 1	50/1		217.2_		GRAVEL, cla	• • • •	•	-	Top of Fill at a depth of 0.0 feet
SS 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	7-14-	13   11		- 1	<b>SAND, with s</b> (5YR 5/8), dry	ilt (SP-SM	)- Yellowish dense	red	Top of Barnwell Group at a depth of
SS	2-3-1	1 2		] ]	SAA	,			1.5 feet
3			213.2_	5-					
SS 4	6-9-1	4 10			SAND, silty (Samp, medium	SM)- Yello dense	owish red (5)	YR 5/8),	
	9-11-	12   13	210.7_						
SS 5		12   13	208.2	10-	SAND, silty, o brown (10YR	<b>Slayey (SC</b> - 5/8), dry, n	nedium dens	e l	
SS	9-12-	13   13	200.2_	-111	SAND, silty (S	SM)- Yello	wish red (5)	 YR 5/8),	
6	A : : : :		205.7_	1111	dry, médium d	lense			
ss	7-9-9	13			SAND, silty, 6 5/6) and yellow	clayey (SC-	SM)- Red (	2.5YR	
7				15	5/6) and yenov	w (101K //	6), ary, med	ium dense	
			201.7_						
SS	6-12-	10 12		- 1111	SAND silty (	SMD Pad (	2 5VD 4/9)	dry to	
8				20-	SAND, silty (Samp, medium	dense, fin	e to coarse g	rained	
			196.7						
SS S	9-9-9	8			<b>SAND, with s</b> (10YR 6/8), dr	ilt (SP-SM	)- Brownish	yellow	
				25	(101100/0), ui	y, mearann	delise		
				- 111					
UD		12		] ]]]]	SAA except by	rown (7 5Y	R 5/8) and n	ale	Direct Push
1				30-	SAA except by yellow (2.5Y 8 Pocket Penetro	8/4) ometer: 2.7	5 TSF		Direct I doil
[			186.7_	<u> </u>					
UD 2		13		25	*CLAY, sand (10YR 5/6)	y (CH)- Y	ellowish bro	wn	Direct Push
~				35-	Pocket Penetro	ometer: 1.5	TSF		
				-//					
UD	+ 0 +	23.5			SAA				Direct Push
3				40-	Pocket Penetro	ometer: 2.0	TSF		
			176.7_						
		.			G L NIP	(0.0)		(10)	
SS 10	3-5-0	5   16		45	SAND, clayey 5/8), damp, mo	' <b>(SC)</b> - Yel edium dens	Iowish brow e	n (10YR	
					-				
ss	1-3-:	5 18			SAA except ye	ellow (2.5Y	7/6), loose,	contains	
PREPAI	RED BY: A. TAYLOR		SITE	Vogtle	CLAY lenses e Units 3 & 4 C	OL Projec	t		HOLE NO.
REVIEW	WED BY: P. DEPREE			96 of 724	Final Log				B-1132



GE	ΞC	OTECHNICAL LO	<u> </u>	OJE(		3 & 4	C	JOB NO. SHEET N OL Project 6141-06-0286 2 0	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z- 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 12	X	<b>A</b>	2-6-11	18	1617	55—		SAA except medium dense	
SS 13	X	<b>A</b>	8-11-12	8	161.7_ 156.7_	60-		SAND, with silt (SP-SM)- Yellow (10YR 7/6), dry to damp, medium dense	
SS 14	X	<b>A</b>	11-14-15	6	150.7_	65—		SAND (SP) - Brownish yellow (10YR 6/6), wet, medium dense	
SS 15	X	<b>A</b>	2-6-9	12	146.7_	70-		SAND, clayey (SC)- Pale yellow (2.5Y 8/4), wet, medium dense, -HCL	
SS 16	X	<b>A</b>	12-20-21	8		75-		<b>SAND, with clay (SP-SC)-</b> Pale yellow (2.5Y 8/2), wet, dense, -HCL	
SS 17	X	<b>A</b>	12-14-14	15	136.7_	80-		SAA except pale yellow (5Y 8/3), moist, medium dense	Top of Utley
SS 18			50/1"	0	131.7_	85 — -	ø×/	NO RECOVERY	Limestone at a depth of 81.8 feet
SS 19		•	50/1"	1	126.7_	90-		*SHELL HASH, clayey (GC)- Pale yellow (5Y 8/3), +HCL	Top of Blue Bluff
SS 20	X		16-30-34	18		95 — -		CLAY (CL) - Dark greenish gray (GLEY1 4/1/10Y), damp, hard, +HCL	Top of Blue Bluff Marl at a depth of 91.75 feet
SS 21	X	<b>A</b>	17-20-27	18	118.7_	100-		SAA Boring terminated at 100 feet	
					SITE	V 97 of		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1132</b>



GEOTECHNICAL LOG	PROJEC <b>Vogtl</b>		3 & 4 CO	L Project	JOB NO. 6141-0	6-0286	SHEET NO	
LOGGED BY		DINATES		,		BEGUN		COMPLETED
R. Clark	DRILL	MAKE AND	N 114296	8.9 E 62145 HOLE DIAME		2/13/200 HAMMER SE		$\begin{array}{c c} 2/13/2007 \\ \hline  ext{ER} & TOTAL DEPTH \end{array}$
Skoglund-MACTEC		Diet	trich D-50	) 4 In	ches		100	100.0
GROUND EL. DEPTH/EL. GROUND WATER $\frac{\nabla}{2}$ /	SITE:		•	Vogtle Electri	ic Gene	rating Pla	ant - Wa	ynesboro, GA
SAMP. TYPE AND NO.  O MATER CONTENT %  1st 6 1	3rd 6" 4 RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION (* = field clas laboratory test of sample by f	sification adjust		ION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS	14	210.7_ 207.2_ 199.2_	10-	SAND, with cla damp, medium of nonplastic SAA except yell SAA except mediums frace of SAA except mo subangular to su  SAND, with silt (7.5YR 6/6), mo grained, angular SAA CLAY (CL) - R stiff, low plastic  *SAND, silty (\$ 6/8), moist, dens	dense, ver lowish red lowish red dium dens f shell has ist, fine ar brounded 	y fine grained (5YR 5/6). It (5YR 5/8), It (2.5YR 5/8). It (2.5YR 5/8).	dense grained, nined, ellow arse sstic very CL 4), hard	Top of Barnwell Group at a depth of 0.0 feet
	22		30-	SAA except no a Pocket Penetron TSF	ains trace shell hash neter: 4.5	of shell hash	F, 4.0	Direct Push
	24	184.7_	35	SAA except med Pocket Penetron TSF  CLAY (CL) - Y low plasticity Pocket Penetron TSF	 Tellow (10	YR 7/6), mo	bist, stiff,	Direct Push  Changed to a 2 7/8" drill bit
SS 10 A 4-3-:	5 20	179.2_ 174.2_	45	CLAY (CH) - E moist, medium s	Brownish y	vellow (10Y plasticity	R 6/6),	aili on
SS 7-7-1	3 17			CLAY, with sa brown (10YR 6/	nd (CL)- 4), moist,	Light yellov very stiff, lo		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vogtle 98 of 724	Units 3 & 4 CO Final Log	L Project			B-1133



GE	ΞC	TECHNICAL LO	<u> </u>	OJE(		3 & A	L C (	JOB NO.   SHI DL Project   6141-06-0286	EET NO. <b>2</b> OF	HOLE NO. 2 B-1133
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	I	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
11 SS 12	X	<b>A</b>	4-4-5	19		55-		plasticity, fine and coarse grained SAND  SAA except pale yellow (2.5Y 7/4), stiff, fine to fine grained SAND, iron staining observed	very	
SS 13	X	<b>A</b>	5-5-6	19	159.2_	60-		SAA except pale yellow (5Y 8/4), moist to	o wet	
SS 14	X	<b>A</b>	6-8-10	14		65 —		SAND, with silt (SP-SM)- Very pale brow (10YR 7/4), wet, medium dense, fine grain nonplastic	wn ned,	
SS 15	X	<b>A</b>	6-8-11	18	149.2_	70 <del>-</del> -		SAA except yellow (10YR 7/6), medium grained, subangular to subrounded		
SS 16	X	<b>A</b>	3-4-9 4-6-10	18	144.2_	75 — - - -		CLAY, with sand (CL)- Light yellowish brown (2.5Y 6/3), moist, stiff, low plastici low toughness, fine grained SAND		
17 SS 18	X	•	6-13-30	18	140.2_	80-		SAND, with clay (SP-SC)- Pale yellow (27/3), wet, medium dense, fine grained with some medium grained, nonplastic, -HCL  CLAY (CH) - Dark greenish gray (GLEY 4/5GY), moist, hard, high plasticity, +HCl		Top of Blue Bluff Marl at a depth of 81.0 feet
SS 19	X	•	22-27-36	19	134.2_	85 - - - - 90		CLAY (CL)- Dark greenish gray (GLEY 4/5GY), moist, hard, low plasticity, high toughness, +HCL		
SS 20	X	<b>A</b>	17-19-26	18		- - - 95 –		SAA except contains trace fossils		
SS 21	X	<b>A</b>	18-22-25	20	121.2_	100-		SAA  Boring terminated at 100 feet		Water level depth at beginning of 2/14/07 = 56.0 feet
					SITE	V	ogtl/	e Units 3 & 4 COL Project Final Log	ŀ	HOLE NO. <b>B-1133</b>



GF	= <u>C</u>	TECHNICAL LO	2	OJEC		•	~		JOB NO.		SHEET NO		HOLE NO.
LOGG			•		e Units	3 & 4	C	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	2 COMPL	B-1134
	בט נ	M. Harvey		OOK		N 114	328	82.9 E 6211	04.3	1/22/200	7	1/23/2	
DRILLI	ĒR	1/1/ 11/1/ / 0/	D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
		Warren-MACTEC			C	ME-	75	3 1	nches		211797		100.0
GROU 2	ND I <b>22.</b>	$\nabla$ /	ER SITI	Ε:				Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	ro. GA
		<u> </u>						v ogere Erece		ruung r	1110 110	y Hesse	10, 311
SAMP. TYPE AND NO.	SAMPLE	■ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %	1st 6" - <del>7</del> 2nd 6" O 3rd 6" <del>-</del> 2	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory t of sample b	DN AND CL lassification adju- esting data and/or y field geologist/o	sted based on	ION	CHARA	R LEVELS, CTER OF NG AND ATORY
		☐ FINES % _20		L .	222.0							120111	
SS 1 SS 2 SS 3	XXX	<b>A</b>	5-7-8 6-7-9 7-8-15	12 14 12	221.5-	- - - 5—	***	SAND, silty () medium dense SAND, silty () medium dense SAA except re SAA	SM)- Dark	red (10R 3/6	/	Top of I	Fill at 0.0 feet Barnwell It a depth of
SS 4	X	^	6-6-8	15	214.0_	-		SAA except regrained	ed (2.5YR 4	4/8), fine to c	oarse		
SS 5	X		7-8-11	12		10-		SAND with cl (5YR 5/8), dar	ay (SP-SC np, mediur	)- Yellowish n dense	red		
SS 6	X	^	9-7-9	9		-		SAA except re	eddish yello	ow (7.5YR 6/	(8)		
SS 7	X	<b>A</b>	6-6-8	12	205.0	15-		SAA except yo	ellow (10Y	R 7/6)			
SS 8	X	<b>A</b>	5-5-8	10	203.0_	20-		<b>SAND, silty</b> (8 6/8), dry, med	SM)- Yello ium dense	owish brown	(10YR	casing t 20.0 fee Water le end of 1	d 4" steel o a depth of evel depth at /22/2007 =
SS 9	X	<b>A</b>	6-5-5	10	195.0_	25-		SAA except yo	ellow (10Y	R 7/6), damp	)	20.0 fee	it
SS 10	X	<b>A</b>	3-3-4	18	170.0_	30-		CLAY, sandy 6/6), damp, me	(CL)- Bro	ownish yellow fine grained	w (10YR		
SS 11	X	<b>A</b>	3-3-4	18	185.0	35—		SAA					
SS 12	X	<b>A</b>	4-6-7	12		40-		SAND, silty, of yellow (10YR)	clayey (SC-6/8), damp	-SM)- Brown o, medium de	nish ense		
SS 13	X	<b>A</b>	3-4-4	18	180.0_ 175.0_	45-		SAND, clayey 6/8), loose	(SC)- Bro	wnish yellov	v (10YR		
SS	X	<b>A</b>	3-3-3	18		_ 		CLAY, sandy	(CL)- Red	d (10R 5/8), 1	moist,		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE						V	ogtl	e Units 3 & 4 Co Final Log		t		HOLE NO	-1134
		· · · · · · · · · ·				100 of	724		•				



GE	EC	OTECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	l C(	DL Project   JOB NO.   SHEET N   2 (	OF 2 HOLE NO. B-1134
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" C 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14					170.0_	-			
SS 15	X	<b>A</b>	6-6-7	12	165.0_	55-		SAND, with clay (SP-SC)- Light red (10R 6/6), wet, medium dense	
SS 16	X	<b>A</b>	9-9-10	10	160.3_	60-		SAND (SP) - Light red (10R 6/6), damp, medium dense	
SS 17	X	<b>A</b>	5-7-12	18		65-		CLAY, with sand (CL)- Pale yellow (2.5Y 8/3), very stiff, contains shell fragments, +HCL	
SS 18	X	<b>A</b>	17-16-14	11	155.0_	70-		*SHELL HASH, clayey (GC)- White to pale yellow (2.5Y 8/6), medium dense	Top of Utley Limestone at a depth of 67.0 feet
SS 19			50/1"	6		75-		SAA except pale yellow (2.5Y 8/3), very dense	Loss of circulation at a depth of 73.5 feet
SS 20		4	50/1"	2		80-		SAA	
SS 21	X	<b>A</b>	34-13-14	9	135.3_	85 —		SAA except pale brown (10YR 7/3), wet, medium dense, +HCL	
SS 22	X	<b>A</b>	13-17-47	18		- - - 90-		CLAY (CL) - Dark greenish grey (GLEY 1 4/1/10Y), dry to damp, hard, +HCL	Top of Blue Bluff Marl at a depth of 86.75 feet
SS 23	_		50/1"	3		95-		SAA	
SS 24	X	<b>^</b>	20-21-31	18	122.0_	100-		SAA  Boring terminated at 100 feet	Water level depth at end of 1/23/2007 = 56.1 feet
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1134</b>



GF	:O	TECHNIC	CALLO		OJE		2 0 4	-	21 B	JOB NO.		SHEET NO		HOLE NO.
LOGGI				•		RDINATES	3 & 4	CO	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPI	<b>B-1136</b>
	וט ט.	M. Har	vev				N 114	317	78.1 E 6210	23.0	1/24/200	)7	1/24/	
DRILLE	ER		3	D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
		Warren-M.				C	CME-7	75	3 1	nches		211797		100.0
GROU!	ND EL <b>21.7</b>	DEPTH/EL. ♀ / ▼ /	GROUND WA	TER SIT	E:				Vogtle Elect	ric Gene	rating Pl	ant _ Wa	vnesha	oro GA
	11.7	<u>¥</u> /							v ogtic Elect	TIC GCIIC	Tating 11	ant - vva	yncsbe	710, GA
Щ	4	▲ N-VALUE (S	PT)	N-COUNT	(ii)	z	ե	'n					NOTES	S ON:
SAMP. TYPE AND NO.		O WATER CO	NTENT %	1st 6" 3 2nd 6" 3 3rd 6"	RECOVERY (in)	ELEVATION IN FEET	Z	GRAPHICS					WATER	R LEVELS,
₽. G.	SAMPLE	+ ATT. LIMITS	: 0/2	1st 2nc 3rc	OVE	EVA FE	DEPTH IN	ΑAP	DESCRIPTIO	lassification adjus	sted based on	ION	DRILLI	ACTER OF NG AND
SA		☐ FINES %	70		ÆC	==	H	ਠ	of sample b	esting data and/or y field geologist/o	re-examination engineer)		LABOR	RATORY NG
		_ FINES % _ 20 40	60 80		"	221.7							. 201	.0
SS	M	<u> </u>		4-5-7	13			$\bigotimes$	SAND, with s	ilt (SP-SM lense	)- Red (2.5Y	TR 4/8),	-	Fill at 0.0
SS 1 SS 2 SS 3	X			5-6-8	13	218.4_			dry, medium d SAND, with s dry, medium d	ilt (SP-SM lense	)- Red (2.5Y	TR 4/8),	Group a	Barnwell at a depth of
SS S	Ħ	<b>A</b>		7-7-12	11	218.4_		XXX	SAA except vo SAND, silty (S	erv nale bro	own (TOYR)	(/3)	0.0 feet	
3	A						5-		medium dense	,	, ,	. ,		
SS 4	X	<b>A</b>		7-14-16	6				SAA					
		<b>A</b>		8-11-16	13		-		CAA					
SS 5	X			8-11-10	13		10-		SAA					
SS	$\forall$	<b>A</b>		8-9-11	14				SAA					
6	А													
SS 7	X	<b>A</b>		10-14-14	12		-		SAA					
/							15-							
						204.7_				. — — — .				
SS	$\mathbb{H}$	<b>A</b>		7-8-10	13				SAND clavey	( <b>SC)-</b> Vel	lowish red ('	5VR		
SS 8	Å						20-		SAND, clayey 5/8), fine to co	arse graine	ed (			
						199.7_								
SS 9	M			7-8-11	10		25		SAND (SM) - damp, medium	Yellow (10 n dense	YR 7/8), dry	y to		
						404-	25-		<b>F</b> )					
						194.7_		431						
UD									NO RECOVE	ERY			Direct l	Push
1							30-							
						189.7_		7111						
		Ö							CAND	. (66	CNA D	.,	D' (1	D 1
UD 2		<u> </u>					35		<b>SAND, silty, o</b> yellow (10YR	elayey (SC- 6/8)	-SM)- Brown	nish	Direct I	Push
						184.7_								
			1,	07		104.7_								
UD			+	94			-		*SAND, silty	(SM)- Pale	yellow (5Y	8/3)	Direct l	Push
3							40-							
UD			0						SAA except of	live vellow	(2.5Y 6/6)		Direct l	Push
4							45-		STIT CACCPI OF	yenow	(2.01 0/0)		Direct I	. WOII
SS	$\mathbb{M}_{-}$			5-4-6	10		_		SAA except yo dense, -HCL					
		BY: A. TAYLOR				SITE	V	ogtl	e Units 3 & 4 C		t		HOLE NO	
REVIE	WEDI	BY: P. DEPREE					102 of	<del>72</del> 4	Final Log	<u>,                                     </u>			В	-1136



GE		TECHNICAL LOC	<b>~</b>	OJEC ogtl		3 & 4	· C(	JOB NO.   SHE DL Project   6141-06-0286	EET NO.  2 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 11	X	<b>A</b>	5-4-4	15		- - - 55—		SAA except pale yellow (2.5Y 7/4), loose		
SS 12	X	<b>A</b>	5-7-6	12		60-		SAA except pale yellow (2.5Y 8/3), mediudense	um	
SS 13	X	<b>A</b>	4-9-8	9		65—		SAA		
SS 14	X	<b>A</b>	5-5-2	9	149.7_	70 <del>-</del>		SAA except pale yellow (2.5Y 7/4), damp.		
SS 15	X	<b>A</b>	3-3-5	8		- 75 — -		SAND, silty (SM)- Pale yellow (2.5Y 8/3) dry, loose, -HCL	),	Loss of circulation at a depth of 72.0 feet
SS 16	X	<b>A</b>	4-6-7	11	139.7_	80-		SAA except medium dense		
SS 17	X	<b>A</b>	4-4-3	11	134.9_	85 — 		<b>SAND (SP)</b> - Pale red (2.5YR 7/2), wet, lo -HCL	oose,	
SS 18	X	<b>A</b>	14-7-7	18	129.9_	90-		CLAY (CL) - Pale olive (5Y 6/4), moist, s +HCL		Top of Blue Bluff
SS 19	$\boxtimes$	•	27-50/1"	16		95— 		CLAY (CL) - Dark greenish grey (GLEY 4/1/10Y), damp, hard, +HCL	1	Top of Blue Bluff Marl at a depth of 91.75 feet
SS 20	X	•	21-23-25	18	121.7_	100-		SAA  Boring terminated at 100 feet		
					SITE	V	ogtl	e Units 3 & 4 COL Project		HOLE NO.
						103 of	_	Final Log		B-1136



GE		ROJECT	Ilmita 1	2 & 1 C	OL Project	JOB NO.	06-0286	SHEET NO.		IOLE NO.
LOGGED	,	COORDI		3 & 4 C	OL Project	0141-0	BEGUN	<b>1</b> OF	COMPLE	<b>B-1138</b> ETED
	D. Atkinson				69.7 E 6191		2/7/200		2/8/20	
DRILLER	White-MACTEC	DRILL MA	AKE AND C	ME-55	HOLE DIAM	nches	HAMMER SE	331145	=R	TOTAL DEPTH <b>100.0</b>
GROUNI	ID EL. DEPTH/EL. GROUND WATER SI	TE:					•			
213	5.8 🛂 /	<del></del>			Vogtle Elect	ric Gene	erating Pla	ant - Way	nesboi	ro, GA
SAMP. TYPE AND NO.	□ FINES %	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIC (* = field c laboratory t laboratory t of sample b	ON AND CL lassification adjusting data and/or or field geologist/o	sted based on	ION		LEVELS, CTER OF G AND TORY
SS	20 40 60 80	12	215.8		SAND, with s	ilt (ŞP-SM	)- Yellowişh	red	Top of B	arnwell
	4-3-3	10	214.3_		(5YR 4/6), dar SAND, clayey loose, fine grain	(SC)- Rec	ine grained l (2.5YR 4/8)	, damp,	0.0 feet	a depth of
SS 2 SS 3	2-3-6	9	212.6_	5-	SAND, with s (5YR 4/4), dar		)- Reddish bi	rown		
SS 4	<b>▲○</b> 2-3-6	9	209.8_	- 111	*SAND, silty (4/4), damp, loc	(SM) - Red	dish brown (	5YR		
SS 5	1-2-2	8	207.3_	10-	<b>SAND, with s</b> (5YR 4/4), dar	ilt (SP-SM np, loose, f	)- Reddish bi ine grained v	rown very loose		
SS S	2-5-5	10	202.8	- 1	* <b>SAND, with</b> (5YR 6/8), dar	silt (SP-SNnp, loose, f	(I)- Reddish ine grained	yellow		
SS 7	2-6-7	11	202.6_	15—	* <b>SAND, silty</b> (5/8), moist, me	(SM)- Yell edium dens	lowish red (5 e, fine graine	YR ed		
SS 8	6-9-8	8		20-	SAA except ye	ellowish ree	d (2.5YR 5/8	)		
SS 9	4-8-8	9	188.8	25-	SAA except re	ddish yello	ow (7.5YR 6/	8)		
SS 10	4-6-6	13		30-	* <b>SAND, claye</b> (10YR 6/8), m	y (SC)- Br oist, mediu	ownish yello Im dense, fin	w e grained		
SS 11	2-4-6	16	183.8_ 178.8	35—	CLAY, silty (wet, stiff, med	CL-ML)- \ium to high	Yellow (10Y n plasticity	R 7/6),		
SS 12	1-2-3	18		40-	SAND, clayey wet, loose, fine plasticity, -HC	(SC)- Yel e grained, r L	low (10YR 7	//8), low		
SS 13	1-2-3	18	173.3_ 168.8_	45	CLAY, silty ( (GLEY1 8/10) plasticity, -HC	——————————————————————————————————————	Light greenis	h gray edium		
ss	2-5-6	16		- /	SAND, with s	ilty clay (S	<b>P-SC</b> )- Ligh	t nedium		
	RED BY: A. TAYLOR  VED BY: P. DEPREE		SITE	Vogt	le Units 3 & 4 Co Final Log	OL Projec			HOLE NO.	1138
				104 of 724		•			<u> </u>	



GI		OTECHNICAL LO		OJE(		3 & A	LCO	JOB NO.   5 DL Project   6141-06-0286	SHEET NO	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATIO  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40 60 80			163.8_	- - -		dense, fine grained, low to medium plas		
SS 15	X	^	12-11-2	18	158.8_	55 — -		SAND, clayey (SC)- Pale yellow (2.5Y wet, medium dense, medium to coarse a nonplastic to low plasticity, contains trafragments, +HCL	7 7/4), grained, ace shell	
SS 16	X	<b>A</b>	6-6-4	16	153.8_	60-		CLAY, with sand (CL)- Pale yellow (2 wet, stiff, medium plasticity, very fine a SAND, contains shell fragments up to I diameter, +HCL	5Y 8/4), grained "in"	
SS 17	X	<b>A</b>	5-5-7	18	148.8	65-		CLAY (CL) - Pale yellow (5Y 7/3), we high plasticity, -HCL	et, stiff,	
SS 18	X	<b>A</b>	4-4-5	12	143.8_	70-		SAND, with silt (SP-SM)- Yellow (5Y wet, loose, fine to medium grained, con shell fragments, +HCL	8/6), tains	Loss of circulation at a depth of 68.5 feet. Installed 3" steel casing to 68.5 feet.
SS 19	X	<b>A</b>	WOH/6"-1-2	2 18	138.8_	75 —		SAND, clayey (SC)- Pale yellow (2.5Y wet, very loose, fine grained, low to me plasticity, -HCL	7 7/4), edium	
SS 20	X	•	1-1-1	16	133.8_	80-		SAND, with clay (SP-SC)- Pale yellow 8/3), wet, very loose, fine grained, nonp-HCL	v (5Y blastic,	Water level depth at end of 2/7/07 = Top of Casing
SS 21	X	<b>A</b>	2-2-3	14		85-		SAND (SP) - Pale yellow (2.5Y 8/4), w loose, fine to medium grained, -HCL	ret,	Water level depth at beginning of 2/8/07 = 52.5 feet
SS 22	X	<b>A</b>	17-23-20	9		90-		SAA except pale yellow (5Y 8/2), dense medium grained	e,	
SS 23	X	<b>A</b>	13-16-19	8		95 —		SAA		
SS 24	X	<b>A</b>	7-13-18	8	115.8_	100-		SAA  Boring terminated at 100 feet		
					SITE	v	ogtl/	e Units 3 & 4 COL Project		HOLE NO.
						105 of		Final Log		B-1138



	PROJEC		2 8- A CC	OL Project	JOB NO. <b>6141-0</b>	6 0206	SHEET NO.	
		DINATES	3 & 4 CC	JL Froject	0141-0	BEGUN	<b>1</b> OF	3 B-1139 COMPLETED
M. Harvey	DDILL			89.9 E 62102 HOLE DIAME		1/31/200 HAMMER SE		2/2/2007
Warren-MACTEC	DRILL	MAKE AND	ME-75		iches		211797	ER TOTAL DEPTH <b>150.0</b>
GROUND EL. DEPTH/EL. GROUND WATER S	ITE:							•
216.7 💆 /		1		Vogtle Electr	ic Gene	rating Pla	ant - Way	ynesboro, GA
AN-VALUE (SPT)  O WATER CONTENT %  + ATT. LIMITS %  FINES %  O 10 10 10 10 10 10 10 10 10 10 10 10 10		ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION (* = field clar laboratory tes of sample by	N AND CL ssification adjust ting data and/or field geologist/er	ted based on		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 20 40 60 80 14-15-1	1 14	216.7 215.2		GRAVEL, silty red SAND, dry,	y (GM)- C	rush run and	d some	Top of Fill at a depth of 0.0 feet
1 SS 2 SS 3 7-9-10		213.2_	5—	SAND, silty (SI medium dense	<b>M</b> )- Red (2	2.5YR 4/8),	dry,	Group at a depth of 1.5 feet
SS 4 18-16-1	7 7		-1141 -1141	*SAA except re	d and gray	, dense		
SS 5 44-5	12		10-	SAA except red loose	ldish yello	w (5YR 6/8)	, moist,	
SS 6 4-6-6	10	203.7	-1111	SAA except dar	np, mediu	m dense		
SS 7 4-5-6	12		15-	CLAY, sandy ( 6/8) and light bl damp, stiff, con	(CL)- Bro luish gray tains SAN	wnish yellov (GLEY2 8/1 D lenses	v (10YR /10B),	
SS 8 5-6-5	9	199.7_ 194.7_	20	SAND, with sil (7.5YR 6/6), dr				Installed 3" steel casing to a depth of 17.0 feet
SS 9 10-13-1	4 10	189.7	25-	SAND (SP) - Young	ellow (10Y	YR 8/6), dry	,	
	27	107.7	30-	*SAND, clayey Pocket Penetror	(SC)- Re meter: >4.5	d 5 TSF		Direct Push Removed casing to retrieve UD sample
	26		35	SAA Pocket Penetror SAA except ora	meter: 0.75 inge	5 TSF		Direct Push
UD 3 ++	25.5	177.2_	40-	SAA except red Pocket Penetror SAND, clayey (	l meter: 1.1 ( <b>SC)</b> - Orai	TSF nge		Direct Push
SS 10 A 3-5-7	18		45	SAA except brodamp, medium	ownish yel dense	low (10YR (	5/6),	
SS A 6-8-8	18			SAA except red	1 (10R 5/8)	)		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vogtle	e Units 3 & 4 CO Final Log		;		HOLE NO. <b>B-1139</b>



GE	Ξ(	OTECHNICAL LO	<u> </u>	OJEC		3 & 1		JOB NO.  OL Project 6141-06-0286	SHEET NO	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" 7 2nd 6" 0 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
11 SS 12	X	<b>A</b>	3-4-5	16		55-		SAA except pale red (2.5YR 7/2) and y (2.5Y 7/6), damp, loose, contains CLA	vellow Y lense	Water level depth at end of 1/31/07 = Ground surface  Water level depth at beginning of 2/2/07 = 38.0 feet
SS 13	X	<b>A</b>	4-5-7	15	154.9_	60-		SAA except pale yellow (5Y 8/3), dammedium dense, no lenses	p,	
SS 14	X	<b>A</b>	10-13-16	15	149.7	65 —		*SHELL HASH, silty (GM)- White (Sdamp, medium dense	5Y 8/1),	
SS 15	X	<b>A</b>	7-11-15	16	144.7_	70-		CLAY, sandy (CL)- Yellow (2.5Y 7.5 very stiff	5/6),	
SS 16	X	<b>A</b>	16-16-21	17	139.7_	75—		SAND, clayev (SC)- White (2.5Y 8/1) contains shell hash	, dense,	
SS 17	X	<b>A</b>	11-11-12	16	134.7_	80-		SAND, with clay (SP-SC)- Pale yellow 8/3), moist, medium dense	w (5Y	
SS 18	X	<b>A</b>	11-11-16	15	129.7_	85 —		SAND (SP) - Pale yellow (2.5Y 8/2), we medium dense	/et, - — — — —	T. 011
SS 19	×		35-50/1"	7	124.7_	90-		*SHELL HASH, silty (GM)- Pale yel 8/3), wet, dense, +HCL	low (5Y	Top of Utley Limestone at a depth of 87.0 feet
SS 20	X		8-10-12	18	121.9_	95—		SILT (ML) - Pale olive (6/3) to greenist in tip, damp, very stiff, +HCL	sh gray 	Top of Blue Bluff Marl at a depth of 94.8 feet
SS 21	X	<b>A</b>	11-23-50	18		100-		CLAY (CL) Dark greenish gray (GLE 4/1/10Y), dry to damp, hard	Y1	
SS 22	X	<b>A</b>	14-18-26	18	0:	105-		SAA		
					SITE	V <del>107 of</del>	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1139</b>



GE		OTECHNICAL LO		OJEC ogtl		3 & 4	C C	JOB NO. SHEET NO <b>6141-06-0286 3</b> OF		HOLE NO. <b>B-1139</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES WATER CHARA DRILLI	S ON: R LEVELS, ACTER OF NG AND RATORY
SS 23	X	20 40 60 80	23-26-36	18		110-		SAA		
SS 24	X	<b>A</b>	19-16-21	18		115—		SAA		
SS 25	X	•	18-28-35	18		120-		SAA except greenish gray (GLEY1 5/1/5GY), damp, hard		
SS 26	X	•	19-27-36	18		125—		SAA		
SS 27	×		48-50/1"	16	0.1.5	130-		SAA		
SS 28	_		50/1"	8	84.7_	135—		SILT (ML) - Greenish gray (GLEY1 6/1/10Y), hard, lithified, limestone		
SS 29	X	<b>A</b>	29-31-34	18	79.7_	- - 140—		CLAY (CH)- Greenish gray (GLEY1 6/1/10Y), damp, hard, high plasticity		
SS 30	X	<b>A</b>	28-31-40	18		- - 145—		SAA		
SS 31	X	•	17-28-35	15	66.7_	150-		SAA Boring terminated at 150 feet		
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO	o. -1139



	PROJEC		3 & 1 C	OL Project	JOB NO.	06-0286	SHEET NO.		IOLE NO.
LOGGED BY		DINATES	3 & 4 C	OL Froject	0141-0	BEGUN	<b>1</b> OF	COMPLE	<b>B-1140</b> TED
M. Harvey				90.2 E 6218		11/14/20		11/16/2	
DRILLER Warren-MACTEC	DRILL	MAKE AND	CME-75	HOLE DIAM	nches	HAMMER SE	211797	ER	TOTAL DEPTH <b>150.0</b>
GROUND EL. DEPTH/EL. GROUND WATER S	ITE:		THE TO	'		•			
216.6 💆 /	<u> </u>			Vogtle Elect	ric Gene	erating Pla	ant - Wa	ynesboi	ro, GA
SAMP TYPE  AND NO.  O MATER CONTENT %  Ist 6.  D LINES %  D LINES %	3rd 6" ≒ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIC  (* = field c laboratory to of sample by	DN AND Cl lassification adju- esting data and/or y field geologist/or	sted based on	ION		LEVELS, CTER OF G AND TORY
SS	5 10	216.6 216.0-	, –	GRAVEL - Pa	rking lot/r	oadway		Top of F	ill at a depth
1 SS 2 9-10-5 SS 3 8-9-8			5—	SAND (SP) - I dense, medium SAA SAA	Red (2.5YF n grained	R 4/6), dry, m	edium	of 0.0 feed Top of B Group at 0.6 feet.	et. arnwell a depth of
SS 4 7-8-9	12			SAA except da	amp				
SS 5-7-9	12	206.1	10-						
SS 6-8-9	10	203.6	- 7	SAND, with c (7.5YR 6/6), d	amp, medi	C)- Reddish y um dense, fir	rellow ne grained		
SS 7 7-8-9	10	203.0_	15-	SAND (SP) - I damp, medium	Reddish ye dense, fin	llow (7.5YR e grained	6/8),		
SS 8 9-13-1	3 10		20-	SAA					
SS 9 5-7-9	12	189.6_	25-	SAA except co	ontains trac	es of CLAY			
SS N 5-5-5	18	184.6	30-	SAND, clayey damp, loose to grained	(SC)- Bromedium d	own (7.5YR5) ense, fine to	/8), very fine		
SS 11 5-5-5	13	179.6	35-	CLAY (CL)- stiff, traces of	Olive yello	ow (2.5Y 6/6)	), damp,		
SS 12 A 3-4-5	10		40-	SAND, clayey 6/8), wet, loose	(SC)- Broe, fine to m	ownish yellow nedium grain	v (10YR ed		
SS 13 A 3-4-5	18	174.6_	45-	SAND (SP) - I loose, fine grain	Pale yellowined, with	(2.5YR 7/3) traces of CLA	, moist,		
SS 9-11-8	8 7			SAA except pa			nedium		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vogt	le Units 3 & 4 Co Final Log		t		HOLE NO.	1140



GEO	OTECHNICAL LOG	<u> </u>	OJEC		3 & 1	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 0	
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (*= field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS 15	<b>A</b>	8-17-14	8		55—		SAA except yellow (10YR 7/6), with traces of gravel	
SS 16	<b>A</b>	1-2-6	11	158.1_	60-		CLAY, sandy (CL)-Pale yellow (5Y 8/3) to white, moist, stiff to medium stiff, with occasional shell hash	Loss of circulation. Install casing to a depth of 60.0 feet.
SS 17	<b>A</b>	5-7-25	18	149.6_	65—		SAA except hard, contains shell hash and shell fragments	
SS ×		50/6"	12		70 <del>-</del>		SAND (SP) - White (2.5Y 8/1) and pale yellow (2.5Y 8/2), moist to wet, very dense, contains shells and shell fragments, medium to coarse grained	Casing advanced to a depth of 67.0 feet
SS 19	<b>A</b>	13-14-25	11		75— -		SAA except white to pinkish white (10R 8/2), wet, dense	
SS 20	<b>A</b>	8-12-20	15	122.1	80-		SAA except pale yellow (5Y 8/3) and brown (5YR 4/3), wet, dense, occasional shell hash	
SS 21		50/1"	3	133.1_ 128.1_	85— - -		SAND (SP) - Pale yellow (2.5 1/7/4), wet, very dense, contains shells and shell fragments, medium grained	Top of Utley Limestone at a depth of 83.5 feet.
SS 22	<b>^</b>	12-19-26	18	120.1_	90-		CLAY (CL) - Dark greenish gray (GLEY1 4/1/5GY), moist, hard, with trace shell hash	Top of Blue Bluff Marl at a depth of 88.5 feet.
SS Z3		50/5"	12		95 — - - -		SAA	
SS 24	<b>A</b>	14-19-25	18	114.6_	100-		SILT (ML)- Dark greenish gray (GLEY)	_
SS Z5				SITE	105— V	ogtl	SILT (ML) - Dark greenish gray (GLEY1 4/1/5GY), moist, hard, with traces of very fine grained SAND  e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1140</b>



		OTECHNICAL LO	~	OJE(		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>z</del> 2nd 6" <u>O</u> 3rd 6" <u>T</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	×		50/6"	18		110—		SAA except contains traces of shell hash	Water level depth at end of 11/15/2006 = Ground surface
SS 27	×	•	50/3"	16		115-	- - -	SAA	Ground surface
SS 28	×		50/2"	2		120-	- - - -	SAA	
SS 29	×	•	50/4"	4		125—	- - - -	SAA	
SS 30	×		50/4"	10		130-	-	SAA	
SS 31	×		50/3"	8		135—		SAA	
SS 32	×	•	50/6"	20	79.6_	140-		CLAY (CL)- Greenish gray (GLEY1 6/1/10GY), damp/moist, hard, with traces of SILT and very fine SAND	
SS 33	X	<b>A</b>	12-17-20	20		145—		SAA	
SS 34	X	<b>^</b>	10-20-20	20	66.6_	150-		SAA Boring Terminated at 150 feet	
					SITE	V		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1140</b>



COGGED BY   R. Mabic   COGGED MANUAL CREEK	G	ΕΩΤ	ECHNICAL LC	)C	OJEC		2.0		OL D	JOB NO.	VC 020C	SHEET NO		HOLE NO.
B. Mabie				•			3 & 4	t C(	JL Project	6141-0		I OF		<b>B-1142</b> ETED
DRILLER   White-MACTEC   DRILL MAKE AND MODEL   CMF-55   A 1   DRILL MAKE AND MODEL   CMF-55   A 1   DRILLER   S			B. Mabie		5510		N 114	<b>144</b> 1	16.6 E 6200	649.6		07		
Second   Compared	DRILL	ER		D	RILL	MAKE AND	MODE	EL	HOLE DIAM	IETER	HAMMER SE	ERIAL NUME		TOTAL DEPTH
A N-VALUE (SPT)	CROLL	ND EI		TER GIT	E.	C	ME-	<u>55</u>	3 ]	Inches		331145		100.0
20				311					Vogtle Elect	tric Gene	erating Pl	ant - Wa	ynesbo	oro, GA
20														
20	₩	ш	,	N-COUNT	Y (j.	N O ⊢		SS						
20	L. O		WATER CONTENT %	1st 6' 2nd 6 3rd 6	ÆR	ATI	≟	PH				ION	CHARA	ACTER OF
20	AME	S +	- ATT. LIMITS %		8		EPT	GRA	( * = field of laboratory to of sample b	classification adju- testing data and/or	sted based on re-examination engineer)			
SAND, with site (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   Group at a depth of   Group at a depth of   SAND, with site clar (SP-SM). Red (2-SYR 4-8),   Group at a depth of   Group	00									., g			TESTIN	NG
SADD, with sitry clay (SP-SC)- Red (2.5YR 4/8), damp, loose, fine grained, nonplastic, and seed of the seed of t			20 40 60 80	2-1-1	16	224.7			ŞAND, with s	silt (SP-SM	)- Red (2.5Y	R 4/8),	Top of	Barnwell
221.4. 219.2   SS		$\bigwedge$		2-2-2	15		-		damp, very loo -HCL	ose, fine gra	ained, nonpla	astic,	Group a 0.0 feet	at a depth of
SADD, with site (SP-SM). Red (2,5VR 4/8), moist, medium dense, fine graned, nonplastic, sine graned, nonplastic, sine graned, nonplastic or some state of the s	2			2-4-3	12	221.4_	-			silty clay (S	 P-SC)- Red	 (2 5YR		
SADD, with site (SP-SM). Red (2,5VR 4/8), moist, medium dense, fine graned, nonplastic, sine graned, nonplastic, sine graned, nonplastic or some state of the s	3	Η.				219.2_	5-		4/8), damp, lo HCL	osé, finé gr	ained, nonpla	astic,		
SAD, with silty clay (SP, SC) - Red (2.5 YR 4), moist, loose, fine to medium grained, nonplastic to low plasticity, self-grained, nonplastic contains shell hash, self-grained, nonplastic decision of the plasticity self-grained, nonplastic contains shell hash, searce shell fragments, self-grained, nonplastic contains shell hash and cemented SILT, self-grained, nonplastic to low plasticity, self-grained, nonplastic to low			<b>`</b>	4-6-5	14	2167	-		SAND, with s moist, mediun	silt (SP-SM n dense. fin	)- Red (2.5Y) e grained, no	R 4/8), onplastic.		
SS A 4+3 10 211.7 SAND, clavey (SC). Red (2.5YR 4/8), moist, one form grained, nonplastic to low plasticity, -IfCL SAND, site (SP-SC)-Yellow (10YR 7/8), moist, loses, fine to medium grained, nonplastic to low plasticity, -IfCL SAND, with cavey (SC). SND- Brownish yellow (10YR 6/6), moist, loses, fine to medium grained, nonplastic to low plasticity, -IfCL SAND, site, very low (10YR 6/6), moist, loses, fine to medium grained, nonplastic to low plasticity, -IfCL SAND, site, very low (10YR 6/6), moist, loses, fine to medium grained, nonplastic to low plasticity, -IfCL SAND, site, very low (10YR 6/6), moist, loses, fine to medium grained, nonplastic to low plasticity, -IfCL SAND, site, very low (10YR 6/6), moist, loses, fine to medium grained, nonplastic to low plasticity, -IfCL SAND, site, very low (10YR 6/6), moist, loses, fine to medium grained, nonplastic to low plasticity, -IfCL SAND, site, very low (10YR 6/6), moist, loses, fine to medium grained, nonplastic to low plasticity, -IfCL SAND, site, contains shell hash, +HCL SAND start, contains shell fragments, -IfCL SAND, site, very low (10YR 6/6), moist, low plasticity, -IfCL SAND, site, very low (10YR 6/6), moist, low plasticity, -IfCL sand shell hash and cemented SIET, +IfCL SAND, site, very low, 10YR 6/6), were started sand shell hash and cemented SIET, +IfCL SAND, site, very low, 10YR 6/6), were started sand shell hash and cemented SIET, +IfCL SAND, site, very low, 10YR 6/6), were started sand shell hash and cemented SIET, +IfCL SAND, site, very low, 10YR 6/6), were started sand shell hash and cemented SIET, +IfCL SAND, site, very low, 10YR 6/6), were started sand shell hash and cemented SIET, +IfCL SAND, site, very low, 10YR 6/6), were started sand shell hash and cemented SIET, +IfCL SAND, site, very low, 10YR 6/6), were started sand shell hash and cemented SIET, +IfCL SAND, site, very low, 10YR 6/6), were started sand shell hash and cemented SIET, +IfCL SAND, site, very low, 10YR 6/6), were started sand shell hash and cemented SIET, +IfCL SAND, site, very				5-7-4	8	216./_	-							
SS A 4-4-5 10 211.7 211.		Ä				214.2_	10-		4/8), moist, monplastic, -H	edium dens CL	e, fine grain	ed,		
SS And Sample of the second of		$\bigwedge$	<b>`</b>	4-4-5	10		-				l (2.5YR 4/8	), moist,		
SS No. 11   207.7   20				4-4-3	11	211.7_	-		low plasticity,	<u>-HCL</u>				
SS NND. sitry. clavey (SC-SM)- Brownish yellow (10YR 6/6): moist, loose, fine to medium grained, nonplastic to low plasticity, -HCL  SS NND. sitry. clavey (SC-SM)- Brownish yellow (10YR 6/6): moist, loose, fine to medium grained, nonplastic to low plasticity, -HCL  SS NND. sitry. clavey (SC-SM)- Brownish yellow (10YR 6/6): moist, loose, fine to medium grained, nonplastic to low plasticity, -HCL  SS NND. sitry. clavey (SC-SM)- Brownish yellow (10YR 6/6): moist, medium stiff, low plasticity, -HCL  SAA except hard, contains shell hash, +HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SS NND. sitry. clavey (SC-SM)- Light gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND. sitry. clavey (SC-SM)- Light gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND. sitry. clavey (SC-SM)- Light gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND. sitry. clavey (SC-SM)- Light gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND. sitry. clavey (SC-SM)- Light gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND. sitry. clavey (SC-SM)- Light gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND. sitry. clavey (SC-SM)- Light gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND. sitry. clavey (SC-SM)- Light gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND. sitry. clavey (SC-SM)- Light gray (GLEY1 8/10Y), moist, very dense, fow plasticity.  Freepared by: A. Taylor  Freepared by: A. Taylor  SAND. sitry. clavey (SC-SM)- Light gray (GLEY1 8/10Y), moist, very dense, fow plasticity.  Freepared by: A. Taylor  Freepared by: A. Taylor  B-1142		X					15-		7/8), moist, lo	ose, fine to	medium gra	ined,	Installe	d 3" steel
SS No. silty. clavey (SC-SM)- Brownish yellow (10YR 6/6), moist, loose, fine to medium grained, nonplastic to low plasticity, HCL  SS No. silty. (CL-ML)- Light gray (2.5Y 7/2), moist, medium stiff, low plasticity, HCL  SAA except hard, contains shell hash, +HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SS No. silty. (CL-ML)- Light gray (2.5Y 7/2), moist, medium stiff, low plasticity, HCL  SAA except preenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fr						207.7_	-						casing t	to a depth of
SS	00			2.5.4	11		-		CAND W		CNO. D			
SS		M		3-3-4	11		20-		yellow (10YR	clayey (SC- 6/6), moist	.SM)- Brown L, loose, fine	nish to		
SS V A 7-25-44 18 SAA except hard, contains shell hash, +HCL  SS V A SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SS V A SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SS V A SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SS V A SAA  SSA SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SSAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SSAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA except greenish gray (GLEY1 5/5G), very stiff, cont						202.7	-		-HCL	eu, nonpias	iic to low pia	asticity,		
SS							-							
SS	SS 9			WOH/6"-2-	3 16		25 <del>-</del>		CLAY, silty ( moist, mediun	CL-ML)- l n stiff, low	Light gray (2 plasticity, -H	2.5Y 7/2), ICL		
SS							-							
SS							-							
SS NAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SS NAA except greenish gray (GLEY1 5/5G), very stiff, contains scarce shell fragments, -HCL  SAA SAA  SILT (ML) - Light greenish gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SS NAA SILT (ML) - Light greenish gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND, silty, clavey (SC-SM) - Light gray (GLEY1 7/N), moist, very dense, low plasticity, which is a standard of the contains of the contains shell hash and cemented SILT, +HCL  PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SITE Vogite Units 3 & 4 COL Project  Final Log  B-1142				7-25-44	18		30-		SAA except h	ard, contair	s shell hash,	+HCL		
SS							- 50							
SS							-							
SS   SILT (ML) - Light greenish gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SS   SILT (ML) - Light greenish gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND, silty, clayey (SC-SM) - Light gray (GLEY17/N), moist, very dense, low plasticity, HOLE NO.  REVIEWED BY: P. DEPREE   Final Log   B-1142			^	8-12-21	18		25.		SAA except g stiff, contains	reenish gray scarce shell	y (GLEY1 5) I fragments.	/5G), very -HCL		
SS SILT (ML) - Light greenish gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND, silty, clayey (SC-SM) - Light gray (GLEY1 7/N), moist, very dense, low plasticity, PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SILT (ML) - Light greenish gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND, silty, clayey (SC-SM) - Light gray (GLEY1 7/N), moist, very dense, low plasticity, HOLE NO.  Final Log  B-1142	''						33-		,		<i></i>			
SS SILT (ML) - Light greenish gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND, silty, clayey (SC-SM) - Light gray (GLEY1 7/N), moist, very dense, low plasticity, PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SILT (ML) - Light greenish gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND, silty, clayey (SC-SM) - Light gray (GLEY1 7/N), moist, very dense, low plasticity, HOLE NO.  Final Log  B-1142							-							
SS SILT (ML) - Light greenish gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND, silty, clayey (SC-SM) - Light gray (GLEY1 7/N), moist, very dense, low plasticity, PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SILT (ML) - Light greenish gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND, silty, clayey (SC-SM) - Light gray (GLEY1 7/N), moist, very dense, low plasticity, PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  HOLE NO.  B-1142		X	<b>^</b>	11-13-14	18		40		SAA					
SILT (ML) - Light greenish gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SS SAND, silty, clayey (SC-SM) - Light gray (GLEY1 7/N), moist, very dense, low plasticity, PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SILT (ML) - Light greenish gray (GLEY1 8/10Y), dry, hard, nonplastic, contains shell hash and cemented SILT, +HCL  SAND, silty, clayey (SC-SM) - Light gray (GLEY1 7/N), moist, very dense, low plasticity, PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  HOLE NO.  B-1142	12					100.5	40-							
SS V SAND, silty, clayey (SC-SM)- Light gray (GLEY1 7/N), moist, very dense, low plasticity, PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE SITE Vogtle Units 3 & 4 COL Project Final Log B-1142						182.7_	-		<u> </u>					
SS SAND, silty, clayey (SC-SM)- Light gray (GLEY1 7/N), moist, very dense, low plasticity,  PREPARED BY: A. TAYLOR  REVIEWED BY: P. DEPREE  SAND, silty, clayey (SC-SM)- Light gray (GLEY1 7/N), moist, very dense, low plasticity,  Wogtle Units 3 & 4 COL Project  Final Log  B-1142		×		50/4"	4			$\left  \left  \left  \right  \right  \right $	SILT (ML) - 1 8/10V) dry h	Light green	ish gray (GL	EY1 s shell		
SS SAND, silty, clayey (SC-SM)- Light gray (GLEY1 7/N), moist, very dense, low plasticity,  PREPARED BY: A. TAYLOR  REVIEWED BY: P. DEPREE  SAND, silty, clayey (SC-SM)- Light gray (GLEY1 7/N), moist, very dense, low plasticity,  HOLE NO.  B-1142	13						45 –	<del> </del>	hash and ceme	ented SILT,	+HCL	5 511011		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE    GLEY17/N), moist, very dense, low plasticity,						177.7_	-							
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SITE  Vogtle Units 3 & 4 COL Project  Final Log  HOLE NO.  B-1142	SS	$\forall$		12-15-50/5'	12		-		SAND, silty,	clayey (SC	-SM)- Light	gray		
	PREP	ARED E	BY: A. TAYLOR		Ш	SITE	V	ogtl/	e Units 3 & 4 C	OL Projec		piasticity,		
	REVIE	WED B	Y: P. DEPREE				112 o	<del>f 724</del>		<u>g</u>			В	-1142



GE	EC	OTECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	l C	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 0					
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" \texts	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING				
14		20 40 00 80			172.7_	-		contains shell fragments, +HCL					
SS 15	X	<b>A</b>	12-12-10	18		55 —		<b>SAND, with clay (SP-SC)-</b> Pale yellow (2.5Y 7/4), wet, medium dense, fine to medium grained, nonplastic to low plasticity, contain shell fragments, +HCL					
SS 16	X	<b>A</b>	6-7-12	18	162.7_	60-		SAA except pale yellow (2.5Y 8/3)	-				
SS 17	X	<b>A</b>	6-8-9	18	157.7_	65-		CLAY, silty with sand (CL-ML)- Pale yellow (2.5Y 7/3), moist, very stiff, low plasticity, contains shell fragments, +HCL					
SS 18	X	<b>A</b>	14-18-15	18	152.7_	70-		SAND, silty, clayey (SC-SM)- Light gray (2.5Y 7/2), wet, dense, fine to medium grained, nonplastic to low plasticity, +HCL					
SS 19	X	<b>A</b>	10-18-32	18	147.7_	75 <del>-</del> -		SAND, with silt (SP-SM)- Light gray (2.5Y 7/2), wet, dense, fine to medium grained, nonplastic, contains shell fragments, +HCL					
SS 20	X		16-50/4"	8	142.7_	80-		CLAY, silty with sand (CL-ML)- Pale yellow (2.5Y 8/2), wet, hard, low plasticity, contains shell hash, +HCL	Water level depth at end of 2/12/07 = Top of casing				
SS 21	X	<b>A</b>	16-14-14	14	137.7_	85 <del>-</del> - -		SAND, with silt (SP-SM)Very pale brown (10YR 8/3), wet, medium dense, fine grained, nonplastic, contains shell fragments, +HCL	Water level depth at beginning of 2/13/07 = Borehole dry				
SS 22	X	4	17-16-22	18	132.7_	90- - -		CLAY, silty (CL-ML)- Pale yellow (2.5Y 8/2), wet, hard, low plasticity, contains shell hash, +HCL					
SS 23	X	<b>A</b>	11-8-9	16	127.7_	95 <del>-</del> - - -		SAND, silty, clayey (SC-SM)- Light brownish gray (2.5Y 6/2), wet, medium dense, fine grained, nonplastic to low plasticity, contains shell fragments, +HCL					
SS 24	SS 24 124.7 100 16 124.7 SAND, with silty clay (SP-SC)- Light brownish gray (2.5Y 6/2), wet, medium dense, fine grained, nonplastic to low plasticity, contains shell fragments, +HCL Boring terminated at 100 feet												
		<u> </u>	l .		SITE	V	ogtl	e Units 3 & 4 COL Project	HOLE NO. <b>D</b> 11/2				
								Final Log	B-1142				



GF	- - -	TECHNICAL LO	<u> </u>	OJEC		2.0.4	<u> </u>		JOB NO.		SHEET NO		HOLE NO.
LOGGI			Ψ,		e Units	3 & 4	CO	L Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	B-1146
20001	0	R. Clark		JUR		N 1145	542	8.4 E 6222	72.1	1/8/200	7	1/9/2	
DRILLE	ER		D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
ODOLU	ND F	White-MACTEC  L. DEPTH/EL. GROUND WAT	ED OIT			ME-5	5	3 I	nches		331145		98.6
GROU	40.(	$\nabla$ $I$	ER SITI	Ξ.			•	Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	oro, GA
		/						8		<u> </u>		<u>.                                    </u>	
뷥.		▲ N-VALUE (SPT)	N-COUNT	RECOVERY (in)	Z.		ပ္ပ					NOTES	ON:
SAMP. TYPE AND NO.	SAMPLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ERY	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTIO	N AND CI	ASSIFICAT	ION		R LEVELS, CTER OF
AND	SAN	+ ATT. LIMITS %	3.8		IN F	PTF:	RA	( * = field cl	assification adjustesting data and/or y field geologist/o	sted based on	1014	DRILLI	NG AND ATORY
/S		☐ FINES %		R M	Ш	<u> </u>	0	of sample by	y field geologist/e	engineer)		TESTIN	
CC		20 40 60 80	2-2-3	14	240.0		12:	CAND with a	lov (SD SC	") Vallassial	a la movem	Tomof	Damazzall
SS 1	X.	<b>A</b>	4-5-3	18	238.5_	10	1	SAND, with c (10YR 5/8), da organics, nonp	imp, loose,	fine grained	, contains_	Group a	Barnwell at a depth of
	Д		4-3-3	10	236.5_	10		SAND, with si (10YR 6/8), da	ilt (SP-SM	)- Brownish	yellow J	0.0 1661	
SS 2 SS 3	X	<b>A</b>	6-8-5	18	230.3_	-	7	contains organ	ics, nonpla	stic	1		
		<b>A</b>	3-6-12	18		5-		SAND, with clamp, medium	lay (SP-SC dense, vei	y fine graine	ed,		
SS 4	Д		3-0-12	10	233.0_			nonplastic SAA	TI (CD CL	N N 11 1 1			
SS	$\forall$	<b>A</b>	8-11-14	14		]. 		SAND, with si (10YR 5/8), da	ınt (SP-SM ımp, mediu	)- Yellowish im dense, fin	e grained,		
5	H					10-		nonplastic SAA except lig	ght olive b	own (2.5Y 5	5/4), moist		
SS 6	X	<b>^</b>	9-12-8	14				SAA except da	ırk grayish	brown (2.5Y	7 4/2)		
			2-2-2	15	227.0_			CAND 41					
SS 7	Д		2-2-2	13		15		SAND, with c 4/9), wet, loose	e, fine grain	ned, nonplas	.5 Y K		
					223.0	-							
					223.0_								
SS 8	M	<b>A</b>	4-6-8	15				<b>SAND, with si</b> (5YR 4/6), wet	ilt (SP-SM	)- Yellowish	red		
8	П					20		nonplastic nonplastic	i, incarain	delise, fille g	rameu,		
					218.0_								
SS	$\forall$	<b>A</b>	8-10-14	17				SAND, with c	lav (SP-SC	)- Yellowisl	n red		
9	А					25		SAND, with c (5YR 5/6), wet nonplastic	t, medium	dense, fine g	rained,		
					213.0_	1							
			2.4.6	1.5		-	Ш						
SS 10	X		3-4-6	15		30-	Ш	SILT (MH) - S moist, stiff, me	Strong brov edium plast	vn (7.5YR 5) cicity	/6),		
						-							
SS	M	<b>A</b>	2-4-5	18		-	Ш	SAA except pa	ile yellow	(2Y 7/4), dar	np, high		
11	Ħ					35-	Ш	piasticity					
SS	H.	<b>A</b>	2-4-3	16				SAA except str	rong brow	1 (7.5YR 5/6	), moist		
SS 12	Å					40-		medium stiff	- 5.15 O10 WI	- (1.511.5/0	,,,		
						]							
					197.0_								
SS 13			2-2-2	12		45	#	<b>SAND, with si</b> (10YR 6/6), w	ilt (SP-SM et, very loc	)- Brownish se, medium	yellow grained,		
						<b>4</b> 3		nonplastic '		-	- 1		
						<u> </u>							
SS	$\forall$		WOH/18"	14		]:		SAA except ye	ellow (10Y	R 7/6), fine §	grained		
PREPA	V V ARED	BY: A. TAYLOR	I		SITE	Vo	gtle	Units 3 & 4 CO		t		HOLE NO	
REVIE	WED	BY: P. DEPREE				114 of 7	<del>794</del>	Final Log	5			B	-1146
						1 1 7 OI 1							



GE	ΞC	OTECHNICAL LO	<u> </u>	OJE(		3 & 4	l C	JOB NO.  OL Project 6141-06-0286	SHEET NO 2 OF				
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -7 2nd 6" O 3rd 6" -1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATIC  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	DN	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING			
SS 15	X	<b>A</b>	8-29-49	18	186.5_	55-		*CLAY, silty (CL-ML)-Pale yellow (2 8/2), moist, hard, low plasticity, contain fragments, +HCL		Loss of circulation at a depth of 53.0 feet. Installed 3" steel casing to a depth of 53.0 feet.			
SS 16	X	<b>A</b>	9-11-13	16	183.0_	60-		CLAY, with sand (CL)- Pale yellow (2 8/2), moist, very stiff, fine grained, low plasticity, contains shell fragments, +HC	 2.5Y CL				
SS 17	X	<b>A</b>	14-25-30	18		65-		SAA except yellow (2.5Y 8/6), hard					
SS 18	SS 18 SAA except pale yellow (2.5Y 8/3)												
SS 19	SS N SAA 8-14-32 17 SAA 75— SAA												
SS 20	X	<b>A</b>	6-8-9	18	158.0_	80-		SAND, with clay (SP-SC)- Pale yellow 7/3), moist, medium dense, fine grained of shell hash, nonplastic, +HCL	(2.5Y , traces				
SS 21	X	<b>A</b>	39-13-42	18	153.0_	85-		*SAND, clayey (SC)- Pale yellow (7/3) moist, very dense, fine grained, non-plascontains shell fragments, +HCL	), stic, ————	Top of Utley			
SS 22	_	•	50/1"	4	148.0_	90-		*CLAY (CH)- Pale yellow (2.5Y 8/4), hard, contains shell hash, high plasticity	moist,	Top of Utley Limestone at a depth of 87.0 feet  Loss of circulation at a depth of 90.0 feet Water level depth at end of 01/08/2007 =			
SS 23	X	<b>A</b>	8-11-18	18		95 <del>-</del>	- - - - - - -	SILT (ML) - Greenish gray (GLEY1 5/moist, very stiff, contains traces of shell low plasticity, contains calcareous conce+HCL	75GY), hash, retions,	Ground surface Top of Blue Bluff Marl at a depth of 92.0 feet Water level depth at beginning of 01/09/2007 = 86.8			
SS 24	×		50/5.5"	7	141.5_	-		SAA, except hard Boring terminated at 98.56 feet		feet			
					SITE	V 115 or	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1146</b>			



GEOTECHNICAL LOG	PROJE		3 & 4 CO	-	ов NO. <b>6141-0</b> (	5-0286	SHEET NO		DLE NO. B-1148
LOGGED BY		RDINATES				BEGUN		COMPLET	ΓED
S. Woodham  DRILLER	DRIL	L MAKE AND		7.8 E 623230 HOLE DIAMET		1/4/200' HAMMER SE		1/5/200 ER T	07 OTAL DEPTH
White-MACTEC		C	CME-55	3 Inc	ches	(	331145		100.0
GROUND EL. DEPTH/EL. GROUND WATER $\frac{\nabla}{\mathbf{Y}}$ /	SITE:		,	Vogtle Electri	c Gener	ating Pla	ant - Wa	vnesboro	o, GA
				<u> </u>		··· <b>8</b>		<i>y</i>	- , -
A N-VALUE (SPT)  O WATER CONTENT %  S S S S S S S S S S S S S S S S S S	3rd 6" \(\frac{1}{2}\)	ELEVATION 121819 IN FEET 121819	DEPTH IN FT GRAPHICS	DESCRIPTION (* = field class laboratory testin of sample by fie	AND CLA sification adjuste ng data and/or re eld geologist/eng	d based on	ON	NOTES O WATER L CHARAC' DRILLING LABORAT TESTING	EVELS, TER OF G AND FORY
SS \	5-4 13			SAND, clayey (S	SC)- Yello	owish red (5	YR	Top of Fil	l at a depth
1 SS 2 7-7	-10 22	215.9_		SAA except red	(10R 4/6),	medium de	ense	01 0.0 1001	
SS 3 9-12 SS V A 8-15	4-12 10 5-13 18		5-	SAND, clayey (\$ (7.5YR 5/6), dan medium grained SAA	SC) - Red to np, medium	to strong brom dense, fin	own le to	Top of Ba Group at a 3.0 feet	rnwell a depth of
4									
SS 5	2-11   18		10-	SAA except olive traces of SILT	e brown (2	2.5Y 4/4), co	ontains		
SS 6 3-2	3-2   18	205.9		SAA except stron	ng brown	(7.5YR 5/6)	)		
SS 7 2-2	1-5 14		15	SAND, silty, cla brown (10YR 5/6	yey (SC-S 6), damp, l	SM)- Yellov loose, fine g	vish grained		
SS 8 7-12	2-13 15	196.9	20	SAA except redd medium dense	lish yellov	v (7.5YR 6/	8),		
SS 9 A 3-7	7-7 20		25-	CLAY, sandy (6 damp, stiff, low p	CL)- Yello plasticity	ow (10YR 7	7/6),		
SS 10 A 3-5	5-7 21	186.9	30-	SAA					
SS 11 A-3	7-8 14		35-	SAND, silty (SM medium dense, fi	1)- Yellow ine to med	v (2.5Y 7/6) lium grained	damp,		
SS 12 4-6	5-7 14	176.9	40-	SAA					el depth at 04/2007 =
SS N	5-8 12		45-	SAND, silty, cla yellow (10YR 6/ to medium grain	yey (SC-S 6), damp, ed	<b>5M)-</b> Brown medium de	nish nse, fine	Giodila Su	iracc
SS A 6-8	3-9 14	+		SAA except yelle	ow (2.5Y	7/8), -HCL			
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vogtle	Units 3 & 4 COI Final Log	L Project			HOLE NO. <b>B-</b> 1	1148



GE	ΞC	TECHNICAL LO	~	OJEC ogtl		3 & 4	l Co	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 OF		
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" T	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING	
SS 15	X	<b>A</b>	4-4-2	17		55—		SAA except loose		
SS 16	X,	<b>A</b>	1-2-2	24		60-		SAA except grayish brown (2.5Y 5/2)		
SS 17	X.	<b>A</b>	1-2-2	21	152.2_	65-		SAA except pale yellow (2.5Y 8/4), moist		
SS 18	X	<b>A</b>	5-6-9	25	149.4_	70-		CLAY, silty (CL-ML)- Pale yellow (5Y 7/4), damp, stiff, medium plasticity, +HCL CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/1), damp, stiff, low plasticity, +HCL	Top of Blue Bluff Marl at a depth of 69.5 feet	
SS 19	X	<b>A</b>	10-12-15	26		75-		SAA except contains shell fragments		
SS 20	$\boxtimes$		9-50/4"	12		80-		SAA except dark greenish gray (GLEY1 4/1), hard		
SS 21	X		5-50/4"	15		85 —		SAA		
SS 22	X	•	15-23-50/6"	26		90-		SAA		
SS 23	X		SAA except greenish grey (GLEY 1 5/1), high plasticity, contains shell fragments and cemented layers							
SS 24	X	<b>A</b>	27-19-33		118.9_	100-		SAA  Boring terminated at 100 feet		
					SITE	V	ogtl/	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1148</b>	



GF	ΕΟΤ	ECHNICAL LO	<u> </u>	OJEC		204		N. D	JOB NO.	0.000	SHEET NO		HOLE NO.
LOGG			Ψ,		e Units . Dinates	s & 4		OL Project	0141-0	06-0286 BEGUN	1 OF	COMPI	B-1150 LETED
		C. Gandy			]			67.3 E 6242		12/20/20	06	12/21	/2006
DRILLI	ER	**************************************	D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
GROU	ND EL.	White-MACTEC  DEPTH/EL. GROUND WAT	ER SITI	<u> </u>	C	ME-	55	31	Inches		331145		100.0
	70.7	∑ / ▼ /						Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	oro, GA
SAMP. TYPE AND NO.	SAMPLE +	N-VALUE (SPT)  WATER CONTENT %  ATT. LIMITS %  FINES %	1st 6" '7 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field of laboratory to of sample b	ON AND Cl classification adju- testing data and/or by field geologist/o	sted based on	ION	CHARA DRILLI	R LEVELS, ACTER OF NG AND ACTORY
SS	<b></b>	20 40 60 80	8-3-2	15.5	170.7 170.2			-\GRAVEL				Top of	Fill at a depth
1 SS 2 SS 3		<b>A</b>	3-5-6 10-10-4	16 12	165.2	- - - 5-		SAND, silty (1) dry, loose, find SAA except di medium dense SAA except y	•		7R 5/8), 3/4),	Top of	Barnwell at a depth of
SS 4			2-2-2	12	103.2_	-		SAND, with s (5YR 6/8), monoplastic	ilt (SP-SM oist, loose, f	)- Reddish y ine grained,	ellow	casing t	d 3" steel o a depth of
SS 5		` _	2-3-5	13	160.2_	10-		SAA except y				8.0 feet Water l end of	evel depth at 12/20/06 = Top
SS 6			6-7-9 5-5-5	13	157.7_	-		SAND, silty (Sandard Marketter)				Water l	evel depth at ng of 12/21/06 eet
SS 7	X		3-3-3	13	153.7_	15-		SAND, clayey 5/8), moist, loc	ose, fine gr	ained, low p	lasticity		
SS 8		<b>A</b>	4-6-7	14	148.7_	20-		SAND, silty (57/8), wet, med nonplastic	SM)- Reddium dense,	ish yellow (5	5YR ,		
SS 9			2-2-2	25	144.2_	25-	-	SILT (ML)-1 moist, soft, lov	Reddish yel w plasticity	llow (5YR 6/	/8), 	T. 0	
SS 10	X	<b>A</b>	7-11-13	24		30-	-	SILT (ML) - 0 stiff, low plast	Gray (5YR icity, conta	5/1), damp, ins shell has	very h, +HCL	Marl at 26.5 fee	Blue Bluff a depth of t
SS 11	×		29-50/1.5"	12	133.7	35-	-	SAA except ha	ard				
SS 12	×		50/3"	2	133.7_	40-	-	*SILT, shell I moist to wet, I	hashy (ML nard, +HCL	)- Gray (5YI	R 5/1),		
SS 13	×		50/3"	2	123.7	45-	- - - - -	SAA except g	reenish gra	y (GLEY1 5/	/1), damp		
SS	X ADEF	NA TANCS	18-30-50/2"	19	SITE	- - -		SILT (ML) - (damp, hard, lo	Greenish grow plasticity	ray (GLEY1	5/1), nell hash,	HOLE NO	
		BY: A. TAYLOR BY: P. DEPREE			OTE	118 of		e Units 3 & 4 Co Final Log		τ			-1150



GE	EC	TECHNICAL LO		OJE(		3 & 4	C	JOB NO.   S DL Project   6141-06-0286	SHEET NO <b>2</b> OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" 0 3rd 6" 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATIO  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40 60 80			118.7			+HCL		
SS 15	×		30-50/1"	14	110.7_	- - 55—		SILT, with sand (ML)- Greenish gray (GLEY1 5/1), dry, hard, low plasticity, c shell hash, +HCL	contains	
SS 16	X		24-50/3.5"	15	108.7	60-	-	SAA except greenish gray (5YR 6/1)		
SS 17	X		21-14-50/4"	24	108.7_	65-		CLAY, with sand (CL)- Greenish gray (GLEY1 5/1), damp, hard, medium plast +HCL	ticity,	
SS 18	X	<b>A</b>	9-11-14	27		70-		SAA except greenish gray (GLEY1 7/1)	)	
SS 19	X		11-50/5"	17	98.7_	75—		SILT, with sand (ML)- Greenish gray (GLEY1 6/1), dry, hard, low plasticity,	+HCL	
SS 20	X	<b>A</b>	29-35-36	27	93.7_	80-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 6/1), damp, hard, low plasticity +HCL		
SS 21	X	<b>A</b>	9-15-14	26		- - 85—		SAA except very stiff		
SS 22	X		9-50/6"	15	83.7_ 79.2	- - 90—		CLAY, with shell hash (CL)- Light gre gray (GLEY1 8/1), moist, hard, medium plasticity, +HCL	eenish	
SS 23	X	<b>A</b>	11-14-20	21	79.2_	- - 95—		SAND, silty (SM) - Dark greenish gray (GLEY1 4/1), moist, hard, fine grained, contains shell hash, nonplastic		Transitional zone between Blue Bluff Marl and Still Branch Formation
SS 24	X	•	8-9-14	24	70.7_	100-		SAND, clayey (SC) - Very dark gray (5V) - 3/1), damp, medium dense, fine grained, plasticity, -HCL Boring terminated at 100 feet	YR , low	Top of Still Branch Formation at a depth of 96.5 feet
		::::::			SITE	V	ogtl	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1150</b>



GI	ΞC	OTECHNICAL LO	<u> </u>	OJE(		201	CC	OI Duoi and	JOB NO.	0206	SHEET NO		HOLE NO.
LOGG			•		RDINATES	3 & 4	C	OL Project	0141-0	06-0286 BEGUN	1 OF	COMPI	B-1152 LETED
		S. Woodham				N 114				1/2/200	7	1/3/2	2007
DRILL	ER		D	RILL	MAKE AND			HOLE DIAM		HAMMER SE		ER	TOTAL DEPTH
GROU	INID	White-MACTEC DEL. DEPTH/EL. GROUND WAT	ER SITI	F.	C	ME-	<u>55</u>	3 1	nches		331145		100.0
	17	$\nabla$ $\prime$						Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	oro, GA
붠.		▲ N-VALUE (SPT)	N-COUNT	/ (in)	NOL	FT	က္လ					NOTES	
   ₹.0	SAMPLI	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ÆR)	'ATI(	Z I	품	DESCRIPTIO	N AND CI	_ASSIFICAT	ION		R LEVELS, ACTER OF
SAMP. TYPE AND NO.	SAN	+ ATT. LIMITS %	2 6	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN	GRAPHICS	( * = field c	lassification adju- esting data and/or y field geologist/o	sted based on			NG AND ATORY
S		☐ FINES %		RE		Q		or sample o	y field geologists	ingineer )		TESTIN	
	+	20 40 60 80			117.1 116.6	_	2 6	CONCRETE				Top of	Concrete at a
						-		CRUSHED S	TONE			depth o	f 0.0 feet Crushed Stone
					114.1_	-						Ton of	th of 0.5 feet Fill at a depth
						5-	$\bowtie$					of 3.0 fo	eet d 3" steel
SS 1	X		9-7-23	14	110.3_	-		<b>SAND, silty, 6</b> 4/6), damp, de	nse		_		o a depth of
9.0			48-50/4"	10		-		CLAY, silty ( (GLEY1 5/1), SAA except da	<b>CL-ML)</b> - ( dry, hard, l	Greenish gra low plasticity	y y, +HCL	Marl at feet	Blue Bluff a depth of 6.8
SS 2	X		46-30/4	10		10-		SAA except da	amp			icci	
SS	X	<b>A</b>	27-36-44	27		-		SAA					
3						-							
SS 4	X		14-11-19			15-		SAA except st	iff				
						-							
						-							
SS 5	X		15-23-24	27		20-		SAA except gr	reenish gre	y (GLEY1 6	/1), hard		
						20-							
						-							
SS 6	X	<b>A</b>	9-13-14			-		SAA					
0						25 –							
						-							
SS	X	<b>A</b>	25-24-27			-		SAA					
7						30-							
					85.1_	-							
SS	$\bigvee$	•	7-25-17	27		-		CLAY, silty, s	sandy (CL	-ML)- Light	greenish		
8						35-		grey (GLEY1	7/1), dàmp	, hard, +HCI			
						-							
SS		<b>A</b>	8-17-11	27		-		SAA except ve	ery stiff				
SS 9	X					40-		S. I. I Cheept W	, 50111				
					75.1_	-							
00		<b>A</b>	45-23-20			-		CLAV aller	CI MIV	(ight argari	sh aray		
SS 10	X		13 23-20			45-		CLAY, silty ( (GLEY 1 7/1), +HCL	damp, har	d, medium p	lasticity,		
					70.1_	-		· 11CL					
			21 27 20	22		-							
SS	X		21-27-39	23	CITE	_		SAND, silty (56/1), moist, ve	SM) - Gree ry dense, f	nish gray (Gine to coarse	LEY I grained,		
		ED BY: A. TAYLOR ED BY: P. DEPREE			SITE	V	ogtl	e Units 3 & 4 Co Final Log		t		HOLE NO	-11 <b>52</b>
		<del>_</del>			1	120 of	724		<del>)</del>				



GEOTECHNICAL LOG PROJECT Vogtle Units 3 & 4 COL Project 6141-06-0286 SHEET NO. 2 OF 2													
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" 72 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING			
11		20 40 30 00						contains cemented fragments, +HCL					
SS 12	X	<b>A</b>	29-32-33	19		55—		SAA					
SS 13	X	<b>A</b>	14-15-28	24	55.1	60-		SAA except damp, dense, fine grained SANI contains cemented layers	О,				
SS 14	X	•	20-37-50/6"	24	50.1	65—		SAND, silty, clayey (SC-SM)- Dark greenis gray (GLEY1 4/1), damp, very dense, contains shell fragments, +HCL	h ns				
SS 15	X	<b>A</b>	7-14-32	21	47.6_ 45.1_	70-		SAND, silty (SM)- Greenish gray (GLEY1 6/1), damp, dense, contains shell fragments, +HCL SILT (ML)- Greenish gray (GLEY1 5/1), moist, hard, +HCL					
SS 16	X	<b>A</b>	4-5-11	20		75—		SAND, silty (SM)- Very dark gray (2.5Y 3/1), moist, medium dense, fine to medium grained, -HCL		Top of Still Branch Formation at a depth of 72.0 feet			
SS 17	X	<b>A</b>	SAA except damp, fine grained										
SS 18	X	<b>A</b>	7-13-33	24	30.1	85—		SAA except dense	- 10	Water level depth at end of 01/02/2007 = Ground surface			
SS 19	X	<b>A</b>	9-14-21	21	25.1	90—		SILT, sandy (ML)- Greenish gray (GLEY1 5/1), damp, hard, fine grained SAND, -HCL	1	Water level depth at beginning of 01703/2007 = 26.0 feet			
SS 20	X	<b>A</b>	6-10-17	22	20.1	95—		SILT, with sand (ML)- Dark greenish gray (GLEY! 4/1), damp, very stiff, low plasticity fine grained SAND, -HCL	7,				
SS 21	X	<b>A</b>	11-22-27	23	17.1_	100-		SILT, sandy (ML)- Dark greenish gray (GLEY1 4/T), damp, hard, low plasticity, fin grained SAND, -HCL Boring terminated at 100 feet	e				
					SITE	V	_	e Units 3 & 4 COL Project Final Log	F	HOLE NO. <b>B-1152</b>			



LOGGED BY COORDINATES BEGUN COMPLETED  S. Woodham N 1145569.0 E 625673.5 1/3/2007 1/4/2007	GF	=(	ŊΤ	FCHNI	CALLO		OJEC		2.0	. ~ .				SHEET NO		HOLE NO.
S. Woodham						•			3 & 4	ł C(	OL Project	6141-0		1 OF		B-1153
DRILLER   White-MACTEC   CMF-55   3 Inches   331145   100.0	LUGG	⊏ט	ΒY	S Woo	dham		JUK		N 112	1554	69 0 E 6254	673 5		7		
Section   Comparison   Compar	DRILLI	ER		5. 1100	MIIAIII	D	RILL									TOTAL DEPTH
103.6								C	ME-	55	3 1	Inches		331145		100.0
A N-VALUE (SPT)					L. GROUND WA	TER SITI	E:				Vogtle Elect	tric Gene	erating Pl	ant - Wa	vnesb	oro, GA
20   40   60   80   103.6   103.0											8		8			
103.0   101.1   109.	SAMP. TYPE AND NO.	SAMPLE	0 +	WATER CO ATT. LIMIT FINES %	ONTENT %	1st 6" - <del>7</del> 2nd 6" O 3rd 6" <u>1</u>	RECOVERY (in)		DEPTH IN FT	GRAPHICS	( * = field o	classification adju-	sted based on	TION	WATER CHARA DRILLI LABOR	R LEVELS, ACTER OF NG AND RATORY
SS   Name   SS										2 4	- CONCRETE GRAVEL	ı			Top of depth o	Concrete at a of 0.0 feet
SS   X   A   10-14-43   27   10   SAA		X				25-50/5"	15		5- -		FILL - Brown				Top of of 2.5 f Top of Marl at	Fill at a depth eet Blue Bluff
SS   X   A   A   A   A   A   A   A   A   A	-		7		<b>A</b>	10-14-43	27		-		+HCL	damp, narc	i, iow piastic	nty,		
SS   SAA except stiff   SAA except stiff   SAA except stiff		$\nabla$	7			30-40-50/2'	23		10-		SAA				casing	to a depth of
SS	3			<b>A</b>		5-6-9	24		-			r: ee			10.0 fe	et
SS		X	<u>,</u>			3-0-9	24	86.6_	15-		SAA except si	. — — — —				
SS S S S S S S S S S S S S S S S S S S	SS 5	X		<b>\</b>		3-5-8	27		20-		CLAY, silty, (GLEY1 6/1),	sandy (CL damp, stiff	-ML)- Greer f, low plastic	nish gray ity, +HCL		
SS N 10-14-15 27 SAA except light greenish gray (GLEY1 8/1), very stiff, contains shell fragments  **CLAY, sandy (CL)- Light greenish gray (GLEY1 8/1), damp, very hard, low plasticity, fine grained, contains shell fragments and cemented nodules, +HCL  SS N 22-26-22 22 SAA except greenish gray (GLEY1 6/1), hard  SS N 22-26-22 22 SAA except greenish gray (GLEY1 6/1), hard  **CLAY, sandy (CL)- Light greenish gray (GLEY1 6/1), damp, very hard, low plasticity, fine grained, contains shell fragments and cemented nodules, +HCL  SAA except greenish gray (GLEY1 6/1), hard  **CLAY, sandy (CL-ML)- Dark greenish gray (GLEY1 4/1), damp, hard, low plasticity, by gray (GLEY1 4/1),		X	2	<b>A</b>		7-25-17	27		25-		SAA except h	ard				
SS V		X	7		•	11-20-50	27		30-		SAA					
SS 22-26-22 22 SAA except greenish gray (GLEY1 6/1), hard 45—SSAA except greenish gray (CL-ML)- Dark greenish gray (GLEY1 4/1), damp, hard, low plasticity, PREPARED BY: A. TAYLOR SITE Vogtle Units 3 & 4 COL Project HOLE NO.		X		•		10-14-15	27	66.6_	35-		SAA except li	ght greenis tains shell t	h gray (GLE ragments	Y1 8/1),		
SS A 22-13-17 26 CLAY, silty, sandy (CL-ML)- Dark greenish gray (GLEY1 4/1), damp, hard, low plasticity,  PREPARED BY: A. TAYLOR SITE Vogtle Units 3 & 4 COL Project HOLE NO.	SS 9	X	,			30-41-50/4'	24		40-		*CLAY, sand (GLEY! 7/1), fine grained, c cemented nod	ly (CL)- Li damp, very contains she ules, +HCL	ght greenish hard, low p ll fragments	gray lasticity, and		
SS CLAY, silty, sandy (CL-ML)- Dark greenish gray (GLEY1 4/1), damp, hard, low plasticity,  PREPARED BY: A. TAYLOR SITE Vogtle Units 3 & 4 COL Project HOLE NO.		X	7	•	,	22-26-22	22	56.6	45-		SAA except g	reenish gra	y (GLEY1 6/	/1), hard		
Vogite onto 5 & 4 COLI Toject		X		<b>A</b>		22-13-17	26		- -					greenish lasticity,	1101 7	
122 of 724								SILE			Final Log		t			



GE		TECHNICAL LO		OJE(		3 & 4	C	JOB NO. SHEET NO. OL Project 6141-06-0286 2 o	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6"00 3rd 6" zt	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
11					52.6_	-		fine grained SAND, +HCL	Top of Still Branch Formation at a depth
SS 12	X	<b>A</b>	9-14-20	22		55—		SAND, silty (SM)- Very dark gray (2.5YR 3/N), damp, dense, fine grained, contains cemented fragments, -HCL	of 51.0 feet
SS 13	X	<b>A</b>	28-43-33	18	41.6	60-		SAA except very dark greenish gray (GLEY1 3/1), moist, very dense, fine to medium grained	Water level depth at beginning of 1/4/07 = 22.0 feet
SS 14	X	<b>A</b>	13-22-32	23		65—		SAND, silty, clayey (SC-SM)- Very dark gray (SY 3/1), moist, very dense, fine grained, contains shell hash, -HCL	- 22.0 feet
SS 15	X	<b>A</b>	5-7-11	24		70-		SAA except dark grey (5Y 4/1), damp, very stiff, low plasticity, contains shells	
SS 16	X	<b>A</b>	5-9-14	23	26.6_	75—		SAA except greenish gray (GLEY1 5/1)	
SS 17	X	<b>A</b>	4-4-8	23	21.6	80-		SILT (ML) - Dark greenish gray (GLEY1 4/1), damp, stiff, -HCL	
SS 18	X	<b>A</b>	4-6-11	24	16.6	85—		CLAY, silty (CL-ML)- Very dark greenish gray (GLEY1 3/1), damp, very stiff, -HCL	
SS 19	X	<b>A</b>	7-8-9		10.0_	90-		CLAY, silty, sandy (CL-ML)- Greenish gray (GLEY1 5/1), damp, very stiff, fine to medium grained SAND, -HCL	
SS 20	X	<b>A</b>	8-10-11	23		95—		SAA	
SS 21	X	<b>A</b>	5-10-11		3.6_	100-		SAA  Boring terminated at 100 feet	_
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1153</b>



	PROJE(		2 % 1 00	JOB I	NO. <b>41-06-0286</b>	SHEET NO.	HOLE NO.
LOGGED BY		RDINATES	3 & 4 CC	OL Project 61	BEGUN	<b>1</b> OF	2 B-1154 COMPLETED
C. Gandy	DDILL			64.2 E 626216.1			12/20/2006
DRILLER White-MACTEC	DRILL	MAKE AND	CME-55	3 Inche		331145	TOTAL DEPTH  98.8
GROUND EL. DEPTH/EL. GROUND WATER S	SITE:			•			
95.1 븇 /				Vogtle Electric G	senerating Pi	iant - way	nesporo, GA
AN-VALUE (SPT)  O WATER CONTENT %	3rd 6" 5 RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AN  (* = field classificati laboratory testing dat of sample by field geo	ID CLASSIFICAT on adjusted based on a and/or re-examination ologist/engineer)	ΓΙΟΝ	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 20 40 60 80 9-17-1	8 17	95.1		GRAVEL, silty (GN	M)- Yellowish re	d (5YR	Top of Fill at a depth
1 SS 2 2 2 8-16-1		91.8_		4/6), dry, dense, ang SAA except brown (	(7.5YR 4/2) 		of 0.0 feet
SS  9-13-1	17 15		5-	SAND, with silt (SP (5YR 6/8), dry, dens	se, fine grained, n	onplastic	
SS 9-11-1	12 14.5			SAA			
SS 6 6-4-1	1 13	82.1_	10-	SAA except reddish yellowish red (5YR	yellow (5YR 6/8 4/6), medium der	3) and	
SS 7 17-10-	17 7	02.1_	15-	GRAVEL (GP)- W	et, dense, nonpla	stic	
SS 8 2-1-1	13	78.6_ 73.6_	20-	SAND, silty (SM)- to wet, very loose, fi nonplastic	Brown (7.5YR 4/	/3), moist ained,	Transition zone between Fill and Alluvium
SS 9 3-4-4	15	68.1_	25-	SAND, with silt (SP (7.5YR 6/3), wet, loo nonplastic	P-SM)- Light broose, coarse grains		Top of Alluvium at a depth of 21.5 feet
SS 10 A 4-5-6	5 13		30-	<b>SAND (SP)</b> - Very p wet, medium dense,	pale brown (10YF coarse gained, no	R 7/3), onplastic	
SS 11 A 4-5-3	3 12		35-	SAA except loose, fi	ine to coarse grai	ned	Installed 3" steel casing to a depth of 33.0 feet
SS 12 A 3-3-3	3 12		40-	SAA			
SS 13 A 4-6-5	5 12	48.1_	45-	SAA			
SS 8-15-1	17 20		- 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SAND, silty (SM)- moist, dense, fine gr	Dark brown (7.5° ained, nonplastic	YR 3/2),	
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vogtle	e Units 3 & 4 COL Pr Final Log	roject	ŀ	B-1154



GE	ΞC	OTECHNICAL LOC	<u> </u>	OJEC ogtl		3 & 4	· C(	JOB NO.   SHI DL Project   6141-06-0286	EET NO. <b>2</b> OF	HOLE NO. 2 B-1154
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - 7 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	,	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 15	X	<b>A</b>	8-11-15	20		- - - 55—		SAA except brown (7.5YR 5/2), medium dense, very fine grained, -HCL		
SS 16	X	<b>A</b>	8-10-17	21	33.1	60-		SAA		
SS 17	X	<b>A</b>	7-12-19	23	28.6_	65—		SILT, sandy (ML)- Brown (7.5YR 4/2), damp, hard, nonplastic, -HCL	,	Ton of Still Branch
SS 18	X	<b>A</b>	15-24-25	23		70—		SAND, silty (SM)- Dark gray (10YR 4/1) moist, dense, fine grained, nonplastic, -HC		Top of Still Branch Formation at a depth of 66.5 feet
SS 19	X	<b>A</b>	7-9-12	23	18.1_	75—		SAA except gray (10YR 5/1), wet, mediur dense	,	Water level depth at end of 12/19/06 = Top of casing
SS 20	X	<b>A</b>	4-7-8	24	13.1_	80-		SAND, clayey (SC)- Gray (7.5YR 5/1), moist, medium dense, fine grained, mediun plasticity, contains 5.5" thick CLAY seam -HCL	ım ı,	Water level depth at beginning of 12/20/06 = 20.2 feet
SS 21	X	<b>A</b>	9-14-21	22		85-		SAND, silty (SM)- Gray (7.5YR 5/1), mo dense, fine grained, nonplastic, contains 7' thick CLAY seam, -HCL	pist,	
SS 22	X	<b>^</b>	7-14-26	20		90-		SAA except moist to wet, contains no CLA seam	AY	
SS 23	X	<b>A</b>	14-24-48	19.5		95— -		SAA except wet, very dense	,	Top of Congaree
SS 24	×		50/3"	5	-3.4 <sub>_</sub> -3.7	-		SAND, with silt (SP-SM)- Gray (7.5YR 6) wet, very dense, medium to coarse grained nonplastic, -HCL Boring terminated at 98.75 feet	6/1), / (d, / / (d, / / / / / / / / / / / / / / / / / / /	Top of Congaree Formation at a depth of 96.5 feet
					SITE	V	ogtl	e Units 3 & 4 COL Project	F	HOLE NO.
						<del>125 of</del>	_	Final Log		B-1154



	PROJEC Vogtl		3 & 4	CO	JOB NO.  OL Project 6141	-06-0286	SHEET NO 1 OF	
LOGGED BY		DINATES				BEGUN		COMPLETED
C. Gandy DRILLER	DRILL	MAKE AND	N 114 MODE		90.3 E 624936.4 HOLE DIAMETER	11/28/20 HAMMER SE	06 ERIAL NUMB	<b>12/6/2006</b> ER
White-MACTEC		CM	IE-55	LC			331145	150.0
GROUND EL. DEPTH/EL. GROUND WATER S  85.0	SITE:				Vogtle Electric Ger	nerating Pl	ant _ Wa	vneshoro GA
00.0 <u>¥</u> /					vogue Electric Ger	ici acing i i	1110 114	ynessor 0, 3/1
SAMPO TYPE SAMON ON O		ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND (  (* = field classification ac laboratory testing data and of sample by field geologi	diusted based on	TION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 20 40 60 80 1-1-2	12	85.0 84.0_		Ш	SILT (ML) - Brown (7.	.5YR 4/3), dan	np, soft,	Top of Alluvium at a
1 SS 2 SS 3 6-6-3		79.5_	5		fine-gràined, low plastic roots *SAND. with gravel (\$\footnote{S}\) (10YR 5/4), moist, very coarse grained, nonplas SAA except dark yellov loose, rounded cobbles cobbles are 0.5"-1" in d	3,	/ 1	depth of 0.0 feet
SS 4	11		-  -  -		cobbles are 0.5"-1" in d SAA *SAND (SP)- Light ye 6/4), wet, very loose			
SS 5	13.5	75.2_	10-	////	SAA			
SS 6 WOH/1	.8" 15		-		*CLAY, with sand (Cl 4/1), wet, soft, low plas micaceous, fine grained SAA	ticity, slightly	(7.31K	
SS 7 WOH/1	8" 3.5	68.0_	15-		SAA			Water level depth at end of 11/28/2006 = Ground surface
SS 8 2-4-4	12	62.5	20-		<b>SAND (SP)</b> - Light brow 6/2), wet, loose, coarse	wnish gray (10 grained, nonpl	OYR lastic	Water level depth at beginning of 11/29/2006 = 7.5 feet
SS 9 3-2-4	12	60.4_	25		SILT, with sand (ML) 4/1), wet, medium stiff, grained, sub-angular co contains organics SAND (SP) - Light brow	obbles of 1" dia	meter,	
SS 10 3-3-3	11	53.0_	30-		SAND (SP) - Light brov 6/2), wet, loose, fine to nonplastic, slightly mic. SAA except coarse grai	medium grain aceous ined	ed,	
SS 11 WOH/6"	-1-1 20	48.5_	35-		*SILT (MH) - Very dar damp, very soft, fine gr plasticity, micaceous	rk gray (7.5YR ained, medium	R 3/1),	
SS 12	11		40-		SAND (SP) - Grayish b loose, fine to medium g	prown (10YR 5 grained, nonpla	7/2), wet,	
SS 13 4-5-4	11.5	38.5_	45 —		SAA except stiff, coars	e grained		
SS 4-9-1	1 22	36.0_	-		SAND, with clay (SP-54/1), wet, medium dens	SC)- Dark gray se, fine grained	y (5YR , slightly /	Top of Still Branch Formation at a depth of 46.5 feet
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	126 of		e Units 3 & 4 COL Proje Final Log	ect	-	HOLE NO. <b>B-1155</b>



GEOTECHNICAL LOG	: I	OJEC ogtle	NO. HOLE NO. B-1155				
A N-VALUE (SPT)  O WATER CONTENT %  SO WATER CONTENT %  FINES %  20 40 60 80		RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	7-8-11	22		55—		micaceous *SAND (SP)- Dark gray (5YR 4/1), wet, medium dense, medium grained, nonplastic SAA	Water level depth at end of 11/29/2006 = Ground surface  Water level depth at beginning of 11/30/2006 = 8.5 feet
SS 16 \( \bigsim \)	3-3-5	22	26.0 <sub>_</sub> 23.5 <sub>_</sub>	60-		SAA except loose SAND, with clay (SP-SC)- Dark gray (5YR 4/1), wet, loose, fine grained, low plasticity	-
SS 17 A	6-6-8	20		65		*SAND, with clay (SP-SC)- Dark gray (5YR 4/1), wet, medium dense, fine grained, nonplastic	
	16-20-16	17.5		70-		SAA except dense	
SS 19 \( \bigs \)	5-4-12	22	8.5_	75 —		SAA except low plasticity	Top of Congaree
SS 20	50/6"	6		80-		*SAND (SP) - Gray (5YR 5/1), wet, dense, fine to medium grained, nonplastic	Top of Congaree Formation at a depth of 76.5 feet
SS 21 3	30-45-36	17.5	-1.6_	85-		SAA	
SS 22 A112	6-7-20	24	-6.6_	90 <del>-</del>		*CLAY (CH)- Gray (5YR 5/1), moist, very stiff, high plasticity	Water level depth at end of 11/30/2006 = Ground surface
SS 23	2-47-50/6"	27		95		*SAND, with clay (SP-SC)- Gray (5YR 5/1), wet, dense, fine to coarse grained, low to nonplasticity, and abundant quartz grains	Water level depth at beginning of 12/01/2006 = 5 feet
SS 24 \( \bigsim \)	8-16-20	27		100-		SAA except contains traces of oxidized sands and a 4" clay seam	
SS 25	'-42-50/4"	27	-22.1_	105—		SAA except gray (5YR 6/1 -7/1)	Water level depth at end of 12/01/2006
			SITE	ogtle Units 3 & 4 COL Project Final Log  B-			



GE	EC	EET NO.	HOLE NO. 3 B-1155							
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" - <del>7</del> 2nd 6" <u>0</u> 3rd 6" <u>- 4</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	l	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	20 40 60 80	20-40-50			110-		*SAND (SP) - Gray (5YR 6/1), moist, den coarse grained, contains non-plastic silt, -I		=Top of Casing Water level depth at beginning of 12/04/2006 = Top of Casing
SS 27	X	<b>A</b>	18-34-37	27		115—		SAA except dark grey (5YR 4/1), wet very dense, fine grained	y	
SS 28	X	4	22-50/6"	14.5		120-		SAA		
SS 29	X	•	32-50/4"	14		125-		SAA except dense		
SS 30	X	<b>A</b>	17-21-26	26	-46.6_	130-		SAA		
SS 31	X	<b>A</b>	21-24-25	20	-51.6_	135—		SAND, silty (SM)-Dark gray (5YR 4/1), vectors, fine to coarse grained, contains clay sand seams of less than 2" in widh	wet, yey	
SS 32	X	<b>A</b>	21-37-31	22		140-		<b>SAND, with silt (SP-SM)</b> - Gray (5YR 5/1 wet, very dense, coarse grained, nonplastic slightly micaceous, abundant quartz grains	c l	Water level depth at end of 12/04/2006 = Top of Casing
SS 33	X	•	46-50/2"	27	-61.6_	145-		SAA except dark grey (5YR 4/1), medium coarse grained	n to	Water level depth at beginning of 12705/2006 = 1.5 feet above ground surface
SS 34	X	+-+ 🛕	34-34-23	13	-65.1_	150-		CLAY, with sand (CL)- Bluish gray (GL 6/1), dry, hard, fine grained, medium plast Boring terminated at 150 feet	LEY2 ticity	
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	ŀ	HOLE NO. <b>B-1155</b>



COORDINATES   PROJECT   JOB NO.   SHEET NO.   OF 2   COMPLET   C													
			3 & 4 ((	OL Project	0141-0		I OF	2 B-1156 COMPLETED					
C. Gandy		]		02.5 E 6245		12/13/20		12/14/2006					
DRILLER	DRILL	MAKE AND		HOLE DIAM		HAMMER SE							
White-MACTEC GROUND EL. DEPTH/EL. GROUND WATER	SITE:	CM	IE-55 LC	31	nches		331145	99.2					
85.7 ¥ /	OITE.			Vogtle Elect	ric Gene	erating Pla	ant - Wa	ynesboro, GA					
								,					
A N-VALUE (SPT)  O WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	3rd 6" ₹ RECOVERY (in)	ELEVATION IN FEET 85.7	DEPTH IN FT GRAPHICS	DESCRIPTIC (* = field c laboratory to of sample by	assification adju-		ION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING					
SS 1-2-		84.7_		SILT (ML) - I	Dark brown	n (7.5YR 3/2) contains smal	, dry,	Top of Alluvium at a depth of 0.0 feet					
SS 2 SS 3	-1 10	83.7_ 82.2_	5	SAND, with c (10YR 5/6), m contains low p	lay (SP-Soist, very lasticity class	C)- Yellowis oose, fine gra ay	h brown ained,	depair of old feet					
SS W WOH		77.7_ 76.7		CLAY (CL)- very soft, med *CLAY (CH) soft, high plast SAA except br	- Brown (	7 5YR 4/3) r	noist						
5 🗴	/18"   17.5	70.7_	10-	CLAY, silty (moist, very sof	ics C <b>L-ML</b> )-1 t, low to m	Brown (7.5Y) nedium plasti	R 4/3), -						
	12"-1 17	72.7_	-	*SILT (ML)- very soft, non- majority of sar	nnle		/ /						
UD 1	24		15-	SAA except m SILT (ML) - 0 non to low plan	o <u>ist, low p</u> Gray (10Y)	lasticity, mic R 5/T), wet, v	aceous j ery soft,						
SS	-1 18	68.0_		SAA Pocket Penetro *CLAY, sand (10YR 5/4), da			 wn						
8		63.7_	20-	(10YR 5/4), da	imp, sóft, l ————	nigh plasticity							
SS 9 1-2-	-1 14	59.2_	25-	CLAY, silty w yellow (10YR plasticity	vith sand ( 6/6), damp	CL)- Browni o, soft, mediu	sh m	Top of Still Branch					
SS 10 2-2-	-3 15	53.7	30-	*SAND, with 5/1), moist, loo plasticity clay	clay (SP-Sose, fine gr	C)- Gray (7. ained, contai	5YR ns low	Formation at a depth of 26.5 feet					
SS 11 3-5-	-7 16	49.2	35-	SAND, clayey medium dense	(SC)- Gra , fine grain	ny (7.5YR 5/1 ed, slightly n	), wet,						
UD 2	23	46.2_	40-	CLAY, sandy \damp, medium SAND, silty ( wet, medium g	<u>plasticity</u> SM)- Darl rained, not	gray (7.5YF	<i>/</i> :						
UD 3	24	43.7_ 41.2_ 38.7	45-	CLAY, sandy moist, medium SAND, clayey moist, fine gra	(CL)- Bronglasticity (SC)- Dained, conta	own (7.5YR 5 rk gray (5YR ins low plast	5/3),	Water level depth at end of 12/13/2006 = Ground surface					
SS   + -	23 21		-///	Pocket Penetro  CLAY, sandy very stiff, low	(CL)- Gra		1), moist,	Water level depth at beginning of					
PREPARED BY: A. TAYLOR	-	SITE	Vogtl	e Units 3 & 4 Co	OL Projec	t		HOLE NO. D 1156					
REVIEWED BY: P. DEPREE			129 of 724	Final Log	5			B-1156					



A NVALUE (SPT)	GE	EC	TECHNICAL LO	<u> </u>	OJEC ogtl	e Units	D.   H	HOLE NO. <b>B-1156</b>						
12-14/2006 = 4.   12-14/2006	SAMP. TYPE AND NO.	SAMPLE	<ul><li>○ WATER CONTENT %</li><li>+ ATT. LIMITS %</li><li>□ FINES %</li></ul>	N-COUNT			_		DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on	NOTES WATER CHARAI DRILLIN LABORA	ON: LEVELS, CTER OF IG AND ATORY			
SS	12		20 40 60 80			34.2_				12/14/20	006 = 4.2  feet			
SAA except dense, -HCL   SAAD, with silty clay (SP-SC)- Gray (7.5 YR 5/1), wet, very dense, coarse grained, non-plastic, -HCL   SAND, with silt (SP-SM)- Gray (7.5 YR 5/1), wet, very dense, coarse grained, non-plastic, -HCL   SAND, with silt (SP-SM)- Gray (7.5 YR 5/1), wet, very dense, coarse grained, non-plastic, -HCL   SAND, silty (SM)- Gray (7.5 YR 5/1), wet, very dense, fine grained, non-plastic, -HCL   SAND, silty (SM)- Gray (7.5 YR 5/1), wet, very dense, fine grained, non-plastic, -HCL   CLAY, silty with sand (CL-ML), Gray (7.5 YR 5/1), wet, the grained, low plasticity, -HCL   CLAY, silty with sand (CL-ML), Gray (5 YR 5/1), wet, wety dense, coarse grained, non-plastic, -HCL   SAND, silty (SM)- Gray (7.5 YR 5/1), wet, were dense, coarse grained, non-plastic, -HCL   SAND, silty (SM)- Gray (7.5 YR 5/1), wet, were dense, coarse grained, non-plastic, -HCL   SAND, silty (SM)- Gray (7.5 YR 5/1), wet, were dense, coarse grained, non-plastic, -HCL   SAND, silty silty with sand (CL-ML), Gray (5 YR 5/1), wet, were dense, coarse grained, non-plastic, -HCL   SAND, silty clayer (SC-SM)- Gray (5 YR 5/1), wet, were dense, coarse grained, non-plastic, -HCL   SAND, silty clayer (SC-SM)- Gray (5 YR 5/1), wet, were dense, coarse grained, non-plastic, -HCL   SAND, silty silty with sand (CL-ML), Gray (5 YR 5/1), wet, were dense, coarse grained, non-plastic, -HCL   SAND, silty silty with sand (CL-ML), Gray (5 YR 5/1), wet, were dense, coarse grained, non-plastic, -HCL   SAND, silty silty with sand (CL-ML), Gray (5 YR 5/1), wet, were dense, coarse grained, non-plastic, -HCL   SAND, silty silty with salty silty silty with salty silty	SS 13	X		13-11-16	23		55—		*SAND, with silt (SP-SM)- Gray (7.5YR 5/1), wet, medium dense, fine grained, non-plastic					
19.2   19.2	SS 14	X	<b>A</b>	30-45-34	18		60-		SAA except gray (10YR 5/1), very dense					
34-504"   12   70   70   70   70   70   70   70   7	SS 15	X	Å	11-17-21	22	19.2	65-		SAA except dense, -HCL					
SS X		X <sup>1</sup>		34-50/4"	12	19.2_	70-		*SAND, with silty clay (SP-SC)- Gray (7.5YR 5/1), wet, very dense, coarse grained, non-plastic, -HCL	Top of C Formation of 66.5 f	Congaree on at a depth eet			
SS Z	SS 17	X	<b>A</b>	22-33-32	16	8.7	75-		SAA except contains traces of clay					
SS ND, silty (SM)- Gray (7.5YR 5/1), wet, very dense, fine grained, non-plasticity, HCL CLAY, silty with sand (CL-ML)- Gray (5YR 5/1), wet, very dense, coarse grained, non-plasticity, contains abundant quartz grains  SS ND, silty (SM)- Gray (7.5YR 5/1), wet, very dense, fine grained, low plasticity, HCL CLAY, silty with sand (CL-ML)- Gray (5YR 5/1), wet, very dense, coarse grained, non-plasticity, contains abundant quartz grains  SS ND, silty (SM)- Gray (7.5YR 5/1), wet, very dense, fine grained, non-plasticity, HCL CLAY, silty with sand (CL-ML)- Gray (5YR 5/1), wet, very dense, coarse grained, non-plasticity, contains abundant quartz grains  SS ND, silty, clayev (SC-SM)- Gray (5YR 5/1), wet, very dense, coarse grained, non-plasticity, contains abundant quartz grains  SS ND, silty, clayev (SC-SM)- Gray (5YR 5/1), wet, very dense, coarse grained, non-plasticity, contains abundant quartz grains		×		50/6"	7		80-		*SAND, with silt (SP-SM)- Gray (7.5YR 6/1), wet, very dense, coarse grained, non-plastic, -HCL					
SS 20   38-50/2"   10   -13.5   SAA   Boring terminated at 99.17 feet	SS 19	X		22-48-50/3.5	" 18		85-		SAND, silty (SM)- Gray (7.5YR 5/1), wet, very dense, fine grained, non-plastic, -HCL					
SS 20 40-34-50/5" 17 95 SAND, silty, clayey (SC-SM)- Gray (5YR 5/1), wet, very dense, coarse grained, non-plasticity, contains abundant quartz grains  SS 21 Boring terminated at 99.17 feet					15		l K		CLAV silty with sand (CL-ML)- Gray (5YR					
21 SAA Boring terminated at 99.17 feet	SS 20	X		40-34-50/5"	17		95-		*SAND, silty, clayey (SC-SM)- Gray (5YR 5/1), wet, very dense, coarse grained.					
SITE Vootle Units 3 & 4 COL Project HOLE NO.		$\boxtimes$		38-50/2"	10	-13.5_			SAA Boring terminated at 99.17 feet					
SITE Vogtle Units 3 & 4 COL Project HOLE NO.														
Final Log B-1150			<u> </u>	<u> </u>		SITE	Vo	ogtle	e Units 3 & 4 COL Project Final Log					



GE	GEOTECHNICAL LOG  PROJECT  Vogtle Units 3 & 4 COL Project  COORDINATES  VOGEN BEGUN  SHEET NO. SHEET NO. HOLE NO. 6141-06-0286  BEGUN  COMPLETED													
		vug		3 & 4 CC	OL Project	6141-0		1 OF						
LOGGED	C. Gandy	COO		N 114720	9.6 E 6250	162.2	12/6/200	16	12/8/2					
DRILLER		DRIL	L MAKE AND		HOLE DIAM		HAMMER SE			TOTAL DEPTH				
	White-MACTEC		C	CME-55	3 1	nches		331145		150.0				
GROUNE		WATER SITE:			<b>X</b> 7 (1 <b>X</b> 2) (	• •	. Di	4 337		<b>C</b> 4				
86	.8 ♀ /				Vogtle Elect	ric Gene	erating Pi	ant - Wa	ynesboi	ro, GA				
SAMP. TYPE AND NO. SAMPIF	☐ FINES %	1st 6"	` <b> </b>	DEPTH IN FT GRAPHICS	DESCRIPTIC  (* = field c laboratory t of sample b	DN AND Cl lassification adju- esting data and/or y field geologist/or	sted based on	TION		LEVELS, CTER OF G AND ATORY				
SS	20 40 60 80	1-2-3 10	86.8 86.0_		SILT, with cl	ay (ML)- I	Dark brown (	7.5YR _	Top of A depth of	Iluvium at a				
SS 2 SS 3	SS 2 2-2-2 15 SAND (SP)- Yellowish brown (10YR 5/6), damp, loose, medium to coarse grained, non-plastic SAA except yellowish brown (10YR 5/4) SAA except moist													
SS X		-1-WOH/6 17		-	SILT (ML)-1 soft, low plast	Brown (7.5	YR 4/2), wer	t, very						
ss	+-+	WOH/18" 26	i	10-	SAA	iony, mious	cous							
SS 7	7	WOH/12"-1 21		15—	SAA except m	edium plas	sticity							
SS 8	<del></del>	WOH/12"-1 23.	69.8_	20-	*SILT (MH)- very soft, high	Dark gray	7 (7.5YR 4/1) micaceous	, moist,						
SS 9	<b>A</b>	3-3-5 14		25-	SAND (SP) - 3/2), wet, loos contains abund	Very dark g e, medium lant quartz	grayish brow to coarse gra fragments	n (10YR nined,	Installed casing to 23.0 feet	3" steel a depth of				
SS 10	<b>A</b>	4-5-4 9.5	55.3_	30-	SAA except grained, quartz	rayish brow z fragments	vn (10YR 5/2 s larger than	2), coarse 0.5" are	T. 00	J. D. 66				
SS 11	<b>A</b> ++	3-2-3 18	49.8_	35	*CLAY (CH) moist, soft, lov +HCL	- Greenish w plasticity	gray (GLEY , contains sh	71 5/1), ell hash,	Top of B Marl (Re depth of	elue Bluff eworked) at a 31.5 feet				
SS 12	7	4-3-5 15		40-	CLAY (CL) - damp, medium contains minor	Greenish g n stiff, med r gravel up	gray (GLEY1 lium plasticit to 1" diamet	6/1), y, er, +HCL						
SS 13	<b>A</b>	6-6-7 27	,	45-	SAA except st	iff, low pla	asticity							
ss	<b>A</b> + +	3-4-5 14	37.3_		SAA except m					till Branch				
	ED BY: A. TAYLOR ED BY: P. DEPREE		SITE	Vogtle	e Units 3 & 4 Co Final Log		t		HOLE NO.	1157				
				131 of 724		<u> </u>				1101				



GE	ΕΟ	TECHNICAL LO	~	OJEC ogtl		3 & 4	l C	DL Project   JOB NO.   SH	HEET NO.			
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" <u>C</u> 3rd 6" <u>Z</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N	CHAR.	R LEVELS, ACTER OF ING AND RATORY	
14					34.8_	-		SAND, with silt (SP-SM)- Gray (5YR 5/wet, loose, non-plastic, -HCL	/1), 	Format of 49.2	tion at a depth 5 feet	
SS 15	X	<b>A</b>	3-4-6	19		55—		<b>SAND, clayey (SC)-</b> Dark gray (7.5YR 4 damp to moist, loose, low plasticity, +HC	4/1), CL	Water end of Top of	level depth at 12/06/2006 =	
SS 16	X	▲□ 0	5-8-7	18	24.8	60-		SAA except -HCL		Water	level depth at	
SS 17	X	<b>A</b>	3-4-5	19		65-		SAND, with silt (SP-SM)- Gray (7.5YR wet, loose, fine grained	6/1),			
aa		<b>A</b>	5-25-21	18.5	19.8_	-						
SS 18	X		3-23-21	16.5	17.4_ 14.8	70-		CLAY, with silt (CL)- Gray (7.5YR 5/1) moist, hard, medium plasticity  SAND, with silt (SP-SM)- Gray (7.5YR wet, very dense, coarse grained, non plast	6/1), ticity	Top of Format of 69.4	Congaree tion at a depth feet	
SS 19	X	<b>A</b> 0	4-4-5	23		- - 75—		*SAND, with clay (SP-SC)- Gray (7.5Y) 5/1), wet, loose, fine grained, low plastici	R			
SS 20	X	<b>A</b>	5-5-5	22		80-		SAA except gray (7.5YR 6/1), low plastic -HCL	city,			
SS 21		1 40	5-7-10	20.5	4.8_	85—		*SAND (SP) Gray (7.5YR 5/1), wet, med dense, medium to coarse grained	lium			
SS 22	X	<b>A</b>	8-8-9	24	-0.2_	- - 90-		CLAY, silty with sand (CL-ML)- Gray (7.5YR 5/1), damp, very stiff, low plastic -HCL	eity,			
SS 23	X	<b>A</b>	6-12-23	25	-5.2_	- - 95—		SAND, silty, clayey (SC-SM)- Gray (7.5 5/1), wet, dense, fine grained, non-plastic -HCL	SYR			
SS 24	X	<b>A</b>	5-26-28	25		100-		SAA except very dense				
SS 25	X		6-23-22	24		105-		SAA except contains minor lignite and 8" seam	" clay			
					-20.2_ SITE	V	ogtl	e Units 3 & 4 COL Project		HOLE N		
								Final Log		В	3-1157	



GE		TECHNICAL LO	<u> </u>	OJE(		3 & 4	l C	JOB NO.   SHEET   SHEE	NO. OF <b>3</b>	HOLE NO. <b>B-1157</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - 7 2nd 6" O 3rd 6" - 3	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NC W/ CH DF LA	OTES ON: ATER LEVELS, HARACTER OF RILLING AND BORATORY STING
SS 26	X	+	8-13-19	20	-25.2	110-		*CLAY, with sand (CL)- Light gray (10R 7/1), damp, hard, medium plasticity, -HCL		
SS 27	X	<b>A</b>	3-13-28	16	-23.2_	115-		SAND, silty, clayey (SC-SM)- Light gray (10R 7/1), wet, dense, non-plastic, -HCL		
SS 28	X	<b>A</b>	8-13-15	24	-35.2	120-		SAA except dark gray (7.5YR 4/1), medium dense, fine grained		
SS 29	X	<b>A</b>	12-19-28	24	-33.2_	125-	-	SAND, silty (SM) - Dark gray (7.5YR 4/1), wet, dense, fine grained, non-plastic, -HCL		
SS 30	X	•	24-50/5"	10		130-		SAA except very dense, fine to medium grain	Wa	ater level depth at d of 12/07/2006 =
SS 31	X	•	15-34-50/5"	16		135-		SAA except gray (7.5YR 6/1), medium graine contains minor lignite and a 6° clay seam	W	p of casing ater level depth at ginning of 708/2006 = 11.5
SS 32	X	<b>A</b>	16-44-33	15	-55.2_	140-		SAA except medium to coarse grained		
SS 33	X	<b>A</b>	17-19-18	20	-33. <u>2</u>	145-		CLAY, with sand (CL)- Dark gray (7.5 YR 4/1), moist, hard, medium plasticity, -HCL		
SS 34	X	<b>A</b>	10-14-18	26	-63.2_	150-		SAA except bluish gray (GLEY2 6/1), dry hard, fine grained, medium plasticity, -HCL Boring terminated at 150 feet		
					SITE	V 133 o	_	e Units 3 & 4 COL Project Final Log	НО	LE NO. <b>B-1157</b>



G	=n	TECHNICAL LOG	<u>•</u>	OJEC		•	~		JOB NO.		SHEET NO		HOLE NO.
LOGG			* (		e Units :	3 & 4	CC	OL Project	6141-(	06-0286 BEGUN	<b>1</b> OF	COMPL	B-1158 ETED
		C. Gandy				N 114				12/15/20		12/18/	
DRILL	ER	White-MACTEC	וטן	RILL	MAKE AND C	ME-		HOLE DIAMI	nches	HAMMER SE	ERIAL NUME <b>331145</b>	BER	149.5
GROU		L. DEPTH/EL. GROUND WATE	R SITE	Ē:									
{	<u>88.7</u> □ □	,						Vogtle Electi	ric Gene	erating Pl	ant - Wa	ynesbo 	ro, GA
SAMP. TYPE AND NO.	SAMPLE		1st 6" <del>7.</del> 2nd 6" O 3rd 6" ユ	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIO  (* = field cl laboratory te of sample by	ON AND CL assification adjusting data and/or y field geologist/o	sted based on	ION		LEVELS, CTER OF NG AND ATORY
SS 1	$\forall$	20 40 00 00	3-5-5	15	66.7			SILT (ML) - Y	ellowish r	red (5YR 4/6	), dry,	Top of A	Alluvium at a 0.0 feet
1 SS 2 SS 3		^	4-6-6	14		-		SAA	o, micacco	us, comuns	organies	1	
SS 3	X	^	5-7-7	15		5-		SAA except br	rown (7.5Y	R 4/3)		casing to	13" steel a depth of
SS 4	X	<b>A</b>	3-4-4	12		-		SAA except br	own (7.5Y	R 4/4)			
SS		<b>\</b>	1-2-2	15	80.7_	-		CLAY, silty (dry, soft, low p	 CL-ML)- l	 Brown (7.5Y	R 4/2),		
5			WOH/12"-2	10.5		10-		-	_	lightly micad	ceous		
SS 6	X		WOH/12 -2	19.3	75.7_	-		SAA except da	.mp 				
SS 7		N V	VOH/6"-2-1	18		15-		SILT, sandy (damp, soft, nor	ML)- Brownplastic, m	wn (7.5YR 4 icaceous	/2),		
					71.7_	-							
SS 8	4	<b>A</b>	3-2-4	10.5		20-		SAND (SP) - I loose, coarse g	ight brown	n (7.5YR 6/3 nplastic	), wet,		
SS 9	X	<b>A</b>	3-4-4	12		25-		SAA except me	edium grai	ned			
SS 10		<b>A</b>	4-2-3	10		30-		SAA except me	edium to c	oarse grained	d		
SS 11		<b>A</b>	3-4-3	9.5	51.7	35-		SAA except co	oarse graine	ed			
SS 12			*WOH/18"	21.5	51.7_ 46.7	40-		CLAY, silty ((7.5YR 3/1), day	CL-ML)- amp, very ntly micace	Very dark gr soft, medium	ay 1		
SS 13			·WOH/18"	23	41.7	45-		CLAY, silty w (7.5YR 4/1), m micaceous	vith sand (noist, very	CL-ML)- Da	ark gray sticity,		
SS	X	<b>A</b>	4-8-8	12	39.5_	- -		GRAVEL, wit (10YR 6/3), we contains cemer	ntation, +H	CL	wn blastic,		
		D BY: A. TAYLOR D BY: P. DEPREE			SITE		_	e Units 3 & 4 CC Final Log		t		HOLE NO	-1158
					•	134 of	724						



GE		TECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	C	JOB NO.   SH DL Project   6141-06-0286	HEET NO.	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - 5 2nd 6" 0 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS 15	X	<b>A</b>	5-8-11	18	37.2_	55-		SAND, with silt (SP-SM)- Brown (7.5YI 5/3), wet, medium dense, medium to coar grained, nonplastic, -HCL  SILT (ML)- Brown (7.5YR 4/2), moist, stiff, low plasticity, micaceous, -HCL		Top of Still Branch Formation at a depth of 51.5 feet
SS 16	X	<b>A</b>	4-4-9	18	26.7_	60-		SAA except dark gray (7.5YR 4/1)		
SS 17	X	<b>A</b>	18-28-32	16	21.7_	65-		SAND, silty (SM)- Gray (10YR 6/1), mo very dense, fine grained, nonplastic, mica-HCL	oist, aceous,	Water level at end of 12/15/2006 = Top of casing
SS 18	X	<b>A</b>	6-15-28	17	16.7	70-		SAND, clayey (SC) - Dark gray (10YR 4/wet, dense, medium to coarse grained, low plasticity, -HCL	/1), w	Cashig
SS 19	X	<b>A</b>	16-26-50	18	11.7	75—		SAND, silty (SM)- Dark gray (7.5YR 4/1 moist, very dense, fine grained, nonplastic -HCL	1), ic,	
SS 20	X	<b>A</b>	6-22-38	17		80-		<b>SAND, with silt (SP-SM)</b> - Gray (10YR 5 moist, very dense, fine grained, nonplastic -HCL	5/1), ic,	
SS 21	X	<b>A</b>	12-27-38	17	4.1_ 2.2_	85—		SAA  CLAY, sandy (CL)- Dark gray (2.5YR 4 damp, hard, medium plasticity, -HCL	4/1),	Top of Congaroo
SS 22	X	<b>A</b>	23-34-35	16	-3.3	90-		<b>SAND, silty (SM)</b> - Gray (7.5YR 5/1), we dense, coarse grained, nonplastic, -HCL	et,	Top of Congaree Formation at a depth of 86.5 feet
SS 23	X	•	21-33-50	16	5.5_	95—		SAND, with silt (SP-SM)- Gray (7.5YR wet, dense, medium grained, nonplastic, -	5/1), -HCL	
SS 24	X	<b>A</b>	43-18-16	18	-10.7_ -13.3_	100-		SAA  CLAY, silty (CL-ML)Dark gray (5YR 4 moist, hard, medium plasticity, -HCL	4/1),	
SS 25	X	•	WOH/6"-15-1	1623	-16.0_ -18.3_	105-		CLAY, with sand (CL)- Dark gray (5YR moist, hard, medium plasticity, -HCL SAND, silty (SM)- Gray (7.5YR 5/1), modense, fine grained, nonplastic, -HCL	R 4/1), oist,	
					SITE	V 135 of	ogtl	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1158</b>



GE	EOTECHNICAL LOC	•	OJEC ogtl		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 OF		HOLE NO. <b>B-1158</b>
SAMP. TYPE AND NO.	O WATER CONTENT %  + ATT. LIMITS %    Fines %	1st 6" -z 2nd 6" O 3rd 6" _z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	CHAR DRILL	R LEVELS, ACTER OF ING AND RATORY
SS 26	20 40 60 80	6-15-33	25	22.2	110-		SAND, clayey (SC)- Gray (7.5YR 5/1), wet, dense, fine grained, low plasticity, -HCL		
SS 27	<b>A</b>	12-27-30	27	-23.3_	115—		SAND, silty (SM)- Light gray (7.5YR 7/1), wet, very dense, coarse grained, nonplastic, -HCL		
SS 28	<b>A</b>	10-15-20	21		120-		SAA except very pale brown (10YR 8/2), dense, fine grained, micaceous		
SS 29	<u> </u>	8-10-16	21.5		125—		SAA except medium dense		
SS 30	<b>A</b>	13-21-26	16.5		130-		SAA except light gray (7.5YR 7/1), dense, coarse grained		
SS 31	<b>A</b>	21-25-23	17	10.0	135—		SAA except gray (10YR 6/1)		
SS 32	<b>A</b>	13-21-30	18	-48.3_	140-		SAND, silty with gravel (SM)- Light gray (7.5YR 7/1), wet, dense, coarse grained, nonplastic, -HCL		
SS 33	<b>A</b>	12-23-31	18.5	-53.3_	145—		SAND, silty (SM) - Dark gray (7.5YR 4/1), wet, dense, fine grained, nonplastic, -HCL		
SS 34		22-50/6"	9.5	-60.8_	-		SAA Boring terminated at 149.5 feet		
				SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE N	io. B-1158

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GEOTECHNICAL LO	$\mathbf{C}$	OJEC					JOB NO.		SHEET NO		HOLE NO.
LOGGED BY	V 1		e Units	3 & 4	4 C(	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPLI	<b>B-1159</b>
C. Gandy						85.8 E 6249		12/11/20		12/13/	2006
DRILLER White-MACTEC	D	RILL	MAKE AND	MODE ME-		HOLE DIAME	ETER nches	HAMMER SE	RIAL NUMB 331145	ER	TOTAL DEPTH
GROUND EL. DEPTH/EL. GROUND WAT	TER SITI	E:		·141171_				!			
88.7 ♀ /	<u> </u>	<del>                                     </del>			<del>     </del>	Vogtle Electi	ric Gene	erating Pla	ant - Wa	ynesbo	ro, GA
MAN-VALUE (SPT)  L ON DIMENSION OF WATER CONTENT %  HATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -> 2nd 6" O 3rd 6" _	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIO ( * = field cl. laboratory te of sample by	N AND CL assification adjus sting data and/or field geologist/e	sted based on	ION		LEVELS, CTER OF IG AND ATORY
SS 1	WOH/6"-1-2		00.7			<b>SAND (SP)</b> - D 4/4), damp, ver	Oark yellow y loose, m	vish brown (1 edium graine	0YR ed	Top of A depth of	Alluvium at a 0.0 feet
	1-1-2 4-4-4	14	86.0_		11	*CLAY (CH)- 3/3), damp, sof SAA except re- stiff, micaceous	- Dark redo t, high plas	dish brown (5	SYR		
3 A SS X A	4-4-6	12		5-		SAA except red stiff, micaceous SAA except bro			iedium		
SS X	2-3-3	11				SAA except me	edium stiff	,			
5 X + - +	WOH/18"	16		10-		SAA excep gra	ıy (7.5YR	5/1), moist,	very soft		
8S X	WOH/18"	22		15-		SAA except da	rk gray (7.	5YR 4/1)			
SS 8	1-1-2	23	71.7_	20-		*SILT (ML)- soft, low plastic	————— Dark gray city, micac	(2.5Y 4/1), n	noist,		
SS 9	1-1-1	25	61.7_	25-	- - - -	SAA except we	et — — — — -				
SS 10 A	3-4-4	9.5		30-		SAND (SP) - E medium to coargrains	Brown (10Yrse grained	/R 5/3), wet, l, abundant q	loose, uartz		
SS 11	3-4-3	11	52.2_	35-		SAA except br	ownish yel	llow (10YR 6	5/6)	т. сг	N DI 66
SS	9-6-5	12	47.2_	40-		*LIMESTON wet, medium d	E - Greenis ense, non t	sh gray (GLE to low plastic	Y1 6/1), ity	Mårl at a 36.5 feet	Blue Bluff a depth of
SS A	3-3-4	18		45-		SAND, clayey wet, loose, fine	(SC)- Dar grained, le	k gray (7.5Y ow plasticity	R 4/1), , -HCL	Top of S Formation of 41.5 f	till Branch on at a depth eet
ss 🗸 🗀 📥	8-11-11	17				SAA except we			ise		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE			SITE	137 o		e Units 3 & 4 CC Final Log		t		HOLE NO	1159



GE	ΞC	OTECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	C	JOB NO. SHEE OL Project 6141-06-0286 2	T NO.	HOLE NO.  B-1159
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>7</del> 2nd 6" <u>9</u> 3rd 6" <u>3</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N W C D	OTES ON: /ATER LEVELS, :HARACTER OF :RILLING AND ABORATORY ESTING
14 SS 15	X	<b>A</b>	7-10-18	20	31.7	55—		SAA except very dark gray (7.5YR 3/1), well medium grained	t,	
SS 16	X	<b>[</b> ]	5-6-7	21	26.7	60-		*SAND, with clay (SP-SC)- Gray (7.5YR 5/1), moist, fine grained, medium plasticity, -HCL		
SS 17	X	<b>A</b>	4-6-10	25	22.2_	65—		SAND, silty (SM)- Gray (7.5YR 5/1), wet, medium dense, fine grained, non-plastic, -Ho		on of Congarae
SS 18	X		37-50/5.5"	15	16.7_	70-		SAND (SP) - Gray (7.5YR 6/1), wet, very dense, coarse grained, non-plastic, contains abundant quartz fragments, -HCL	Foo	op of Congaree ormation at a depth f 66.5 feet
SS 19	X	•	30-50/5.7"	16		75—		*SAND, with clay (SP-SC)- Gray (7.5YR 5/1), wet, very dense, medium to coarse grained, non-plastic, contains abundant quartragments, -HCL	tz	
SS 20	X	<b>A</b>	9-11-17	15		80-		SAA except medium dense, coarse grained	W er G	Vater level depth at and of 12/11/2006 = bround surface
SS 21	X	•	9-50/5.7"	13		85-		SAA except very dense, medium to coarse grained	bo	Vater level depth at eginning of 2712/2006 = 13.25 eet
SS 22	X	<b>A</b>	38-38-22	15.5	-3.3_	90-		SAA 		
SS 23	X	<b>A</b>	7-10-11	25	-8.3_	95— -		CLAY, with sand (CL)- Gray (7.5YR 5/1), damp, very stiff, medium plasticity, -HCL		
SS 24	X	<b>A</b>	9-19-28	19		100-		<b>SAND, with silt (SP-SM)-</b> Gray (7.5YR 5/1 wet, dense, fine grained, non-plastic, contain minor lignite, -HCL	), as	
SS 25	X	<b>A</b>	17-29-37	18	SITE	105		SAA except moist to wet, very dense, contain a 3" clay seam, slightly micaceous		DI E NO
					SILE	V	ogtl	e Units 3 & 4 COL Project Final Log	HC	B-1159



GE		TECHNICAL LO	<u> </u>	OJE(		3 & 4	l Co	JOB NO.   SH DL Project   6141-06-0286	IEET NO.	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" 72 2nd 6" 02 3rd 6" 14	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	I	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	×		32-50/3"	27		110-		SAA except gray (7.5YR 6/1), wet		
SS 27	×		50/4"	5.5	-28.3_	115-		SAA except fine to medium grained		
SS 28	X	4	24-50/5"	12.5	-33.3	120-		SAND, silty, clayey (SC-SM)- Light gray white (7.5YR 7/1 - 8/1), wet to moist, very dense, medium to coarse grained, low plas	y to y sticity	
SS 29	X	<b>A</b>	11-27-36	25	-33.3_	125-		SAND, silty (SM)- Dark gray (10YR 4/1) wet, very dense, fine grained, non-plastic, -HCL	),	
SS 30	X	•	2-20-50/5.9	" 25		130-		SAA		
SS 31	X		21-50/5"	10	-48.3_	135-		SAA		
SS 32	X	<b>A</b>	8-32-37	18	-50.5_	140-		CLAY (CL) - Dark gray (10YR 4/1), dam hard, medium to high plasticity, -HCL SAND, silty (SM) - Gray (7.5YR 5/1), we very dense, medium grained, non-plastic, micaceous, -HCL	np, et,	
SS 33	X	<b>A</b>	25-38-31	16		145-		SAA		
SS 34	X	<b>A</b>	20-35-36	15	-61.3_	150-		SAA except gray (7.5YR 6/1), contains 1. clay seam, -HCL Boring terminated at 150 feet	.5"	
					SITE	V 139 of	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1159</b>

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GEOTECHNICAL LOG	PROJE(		204	CC		JOB NO.		SHEET NO		HOLE NO.
LOGGED BY		DINATES	3 & 4	CC	DL Project	0141-0	6-0286 BEGUN	<b>1</b> OF	COMPLE	<b>B-1161</b> ETED
S. Woodham	DDILL	MAKE AND			63.4 E 62480 HOLE DIAME		12/7/200		12/12/2	
DRILLER Banks-MACTEC	DRILL		ME-5			iches	HAMMER SE	337153	EK	TOTAL DEPTH <b>150.0</b>
GROUND EL. DEPTH/EL. GROUND WATER	SITE:				'		<u>!</u>		,	
86.1 💃 /					Vogtle Electr	ic Gene	rating Pla	ant - Wa	ynesbo	ro, GA
AN-VALUE (SPT)  O WATER CONTENT %  Popus  Fines %  20 40 60 80	3rd 6" \( \frac{2}{4} \) RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIOI (* = field cla laboratory tes of sample by	N AND CL ssification adjus ting data and/or field geologist/e	ted based on	ION		LEVELS, CTER OF G AND ATORY
SS 1-1-		80.1	-		CLAY, silty wi	i <b>th sand (</b> n (10YR 4	C <b>L-ML)-</b> Da -/4), damp, v	ırk ery soft	Top of A depth of	Illuvium at a 0.0 feet
SS 2 3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3	5   8	82.6_	-		SAA except stif	ff			•	
SS 3 3-3-	3   15		5-		*SILT (MH)-1	Brown (10	$\overline{\text{VYR}}$ $\overline{\text{4/3}}$ , $\overline{\text{dat}}$	mp,	End logg Woodha	ging by S. m. gging by A.
SS 4 WOH	18" 18	80.1_	-		*CLAY (CL)-	Brown (1	0YR 4/3), m	oist,	Taylor.	gging by A.
SS W	18" 27		-		SAA					
5 SS + 1/18	" 27		10-		SAA except dar	de aravich	brown (2.5V	(4/2)		
6 1			-		SAA except dai	K grayisii	010WII (2.3 I	4/2)		
SS 7 WOH	18"		15-		SAA except ver	ry dark gre	ey (5Y 3/1)			
SS 8 Worth	718" 7	69.1_ 64.1_	20-		SILT, with san 3/1), damp, very	 n <b>d (ML)-</b> ' y soft	Very dark gr	ey (5Y	Changed to 2 7/8"	from 3 7/8" drilling bit.
SS 9 2-3-	4 15		25-		SAND (SP) - D moist, loose	ark greyis	h brown (10°	YR 4/2),		
SS NOTE WORLD	18" 18	54.1	30-		SAA					
SS WOH	18" 18	0	35—		SILT (MH) - V very soft, mediu	ery dark g am plastic	rey (5Y 3/1)	, moist,		
SS 12 ++ •woh.	18" 18		40-		SAA					vel depth at 2/07/2006 =
SS 13 3-2-	1 16	20.2	45—		SAA				Water lebeginnin	surface vel depth at
SS	6 11	39.3_	- - -		*SAND, with s			y (5YR	Formatic of 46.8 f	
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	140 of	_	Units 3 & 4 CO Final Log		:		HOLE NO. ${f B}$ -	1161



GE	OTECHNICAL		OJEC Ogtl		3 & 4 (	JOB NO. SHEET NO. 6141-06-0286 2 OF	
SAMP. TYPE AND NO.	■ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 8	lst 2m 3rc	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14							
SS 15	<b>A</b>	3-5-6	11		55—	SAA except brown (10YR 4/3), subangular	
SS 16	<b>A</b>	4-5-5	18		60-	SAA except greenish grey (GLEY2 5/10G)	
SS 17	<b>A</b>	5-5-8	18		65	SAA	
SS 18	X A	7-9-9	18	14.6	70-	SAA	
SS 19	X	8-13-28	16	14.6_	75-	SAND (SP) - Dark grey (5YR 3/1), damp, dense, -HCL	Top of Congaree Formation at a depth of 71.5 feet
SS 20	X	<b>27-50/5</b> "	18		80-	SAA except very dense, contains 4" thick layer of high plasticity clay with sand, very dark greenish grey (GLEY1 3/5GY), damp	
SS 21	X	15-36-48	18	0.0	85	SAA	
SS 22	+ +	6-11-23	18	-0.9_	90-	CLAY, sandy (CH)- Very dark greenish grey (GLEY1 3/5G), damp, hard, -HCL	
SS 23		11-36-26	12	-5.9_	95-	SAND, with clay (SP-SC)- Dark grey (GLEY 1 4/N), damp, very dense, -HCL	
SS 24	<b>A</b>	13-24-22	18	-10.9_	100-	SAND (SP) - Dark grey (GLEY1 4/N), damp, dense, -HCL	
				-15.9_		CLAY, sandy (CH)- Very dark greenish grey (GLEY1 3/5G), damp, hard, -HCL	
SS 25		7-21-24	24	-18.4_	105	SAND (SP) - Dark grey (GLEY1 4/N), damp, dense, -HCL	Water level depth at end of 12/08/2006 =
				SITE	Vo	tle Units 3 & 4 COL Project	HOLE NO.
					=	Final Log	B-1161



GE		TECHNICAL LO	<u> </u>	OJEG		3 & 1	L C (	JOB NO. SHEE 6141-06-0286 3	Γ NO. OF	HOLE NO. 3 B-1161
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" 0 3rd 6" 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>A</b>	5-24-50	12		110-		SAA except greenish gray (GLEY1 5/1), wet very dense, medium to coarse	,	Ground surface End logging by A. Taylor. Begin logging by S. Woodham. Water level depth at
SS 27	×	•	50/5.5"	6	20.0	- - 115—		SAA		Water level depth at beginning of 12/11/2006 = 2.0 feet
SS 28	X		40-50/6"	15	-30.9_	120		SAND, silty (SM)- Very dark greenish gray (GLEY1 3/1), moist, very dense, fine grained-HCL	Ι,	
SS 29	X		36-50/4"	10		125-		SAA except dark greenish gray (GLEY 1 4/1	)	
SS 30	X		20-50/6"	16		130-		SAA except dark gray (5Y 4/1)		
SS 31	X	<b>A</b>	24-42-45	16		135—		SAA except gray (GLEY 1 5/N)		Water level depth at end of 12/11/2006 =
SS 32	X	<b>A</b>	20-24-35	18	55.0	140—		SAA		Ground surface  Water level depth at beginning of 12/12/2006 = 4.0 feet
SS 33	X		9-50/5"	12	-55.9_	145—		CLAY (CL) - Very dark gray (GLEY1 3/N), damp, very hard, contains sand seams 1/4" to thick, -HCL	2"	
SS 34	X	<b>A</b>	18-22-25	19	-63.9_	150-		SAA Boring terminated at 150 feet		
					SITE	V		e Units 3 & 4 COL Project Final Log	F	HOLE NO. <b>B-1161</b>



	PROJEC		2.0.4.04	OI D	JOB NO.	0.000	SHEET NO.	
		e Units :	3 & 4 CC	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	4 B-1162 COMPLETED
S. Woodham			N 11472			12/12/20		12/14/2006
DRILLER Banks-MACTEC	DRILL	MAKE AND C	ME-550	HOLE DIAMI	nches	HAMMER SE	337153	ER TOTAL DEPTH 200.0
GROUND EL. DEPTH/EL. GROUND WATER S	ITE:							<u>'</u>
85.6 ¥/				Vogtle Electi	ric Gene	erating Pla	ant - Way	ynesboro, GA
A N-VALUE (SPT)  O WATER CONTENT %  1 Sp. 20 40 60 80  A N-VALUE (SPT)  O WATER CONTENT %  □ FINES %  20 40 60 80		ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIO (* = field cl laboratory te of sample by	ON AND CL assification adjus sting data and/or field geologist/o	sted based on	ION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 1 1-2-3	8	85.0	-///	*CLAY (CH) medium stiff, -	- Brown (7 HCL	7.5YR 4/4), d	amp,	Top of Alluvium at a depth of 0.0 feet
SS	8" 27			SAA except ve				30p 31
3	8" 26	79.6_	5- <b>//</b> -	*SILT (MH)- damp, medium	Greenish stiff, -HC	gray (GLEY) L	<del>1</del> <del>5</del> /1),	
SS WOH/I	8" 26			SAA				
SS WOH/1:	8" 25	75.1_	10-11	<b>SILT (ML)</b> - E 4/1), damp, vei	ark green	ish gray (GL	 EY1	
UD O	21.5		15-	, ,, <sub>F</sub> ,	,			Direct Push
SS 7 WOH/I	8" 26	63.6	20-	SAA except gr	eenish gra	y (GLEY1 5/	(1)	
SS 8 2-4-2	18	58.6	25—	SAND, silty (S (GLEY1 4/1), i	SM)- Dark moist, loos	greenish gra	у	
SS 9 1-4-3	16		30-	CLAY, sandy damp, medium +HCL	(CL)- Oli	ve yellow (2.	.5Y 6/6), ells,	
SS 10 20-40-2	21 16	53.6_ 48.6	35	CLAY (CL)-contains white	Yellow (5) shell layer	Y 8/6), damp s, +HCL	, hard,	
SS 11 2-14-7	7 13		40	*CLAY, sand 6/1), damp, vei	y (CL)- Gry stiff, +H	reenish gray CL	(GLEY1	
SS 12 A 4-4-4	25	43.6_	45—	*SAND, with (GLEY1 2.5/1)	silt (SP-SM), damp, lo	M)- Greenish ose, -HCL	black	Top of Still Branch Formation at a depth of 42 feet
SS	22	36.1_	-[:: 1] -[:: 1]	SAA except ve	ery dark gr	eenish gray (	GLEY1	
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE	1 1	SITE	Vogtl	le Units 3 & 4 CC Final Log		t	/	HOLE NO. <b>B-1162</b>



GE	ΞC	T	ECHN	VIC.	<u> </u>	_00	<u> </u>	OJEC ngtl		3 & 4	CC	JOB NO. SHEET N  OL Project 6141-06-0286 2 0	HOLE NO.  B-1162
SAMP. TYPE AND NO.	SAMPLE	O +	N-VALUE WATER ATT. LIM FINES %	CONT	ΓENT %	6	1st 6" -x 2nd 6" 00 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
13A			20 40	) 60 +	0 80	)		17		- - -		*SAND (SP) - Very dark greenish gray (GLEY1 3/1), damp, dense, -HCL	
UD 2				'				17	31.1_	55 —		SAND, silty (SM)	Direct Push
UD 3					0			21.5	26.1_ 23.6_	60-		SAND, clayey (SC)	Direct Push Water level depth at
SS 14	X		<b>A</b>				10-8-14	22	18.6	65-		SAND, silty, clayey (SC-SM)- Greenish gray (GLEY2 5/1), moist, medium dense, fine grained, -HCL	beginning of 12/13/2006 = 4.5 feet
SS 15	X		<b>A</b>				8-5-20	26	13.6	70-		SAND, silty (SM)- Dark greenish gray (GLEY1 4/1), moist, medium dense, fine to medium grained, contains a 2.5" thick clay layer, -HCL	
SS 16	X		<b>A</b>				12-18-16	20	9.6_	75-		*SAND, with silty clay (SP-SC)- Greenish gray (GLEY1 4/1), moist, dense, fine grained, -HCL	Top of Congaree
SS 17	×						50/4"	9		80-		SAND, silty (SM)- Greenish gray (GLEY1 6/1), moist, very dense, fine to medium grained -HCL	Top of Congaree Formation at a depth of 76 feet
SS 18	X					4	5-20-50/6"	19		85 —		SAA	
SS 19	$\boxtimes$						12-50/6"	12		- - 90—		SAA	
SS 20	X		<b>A</b> +-		<del></del>	-+	10-11-17	20	-6.5_	95—		*CLAY (CH) - Greenish gray (GLEY 5/1), damp, very stiff, medium plasticity, contains 0.5"-1" thick sand layers, -HCL	
UD 4								27.5		100-		SAA	Direct Push
SS 21	X			<b>\</b>			11-14-28		21.5	105-		SAA	
			<u> </u>	<u>:</u>	:				-21.5_ SITE	V 144 of	_	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1162</b>



GE	ΞC	OTECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" S 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 22	X	<b>A</b>	33-29-41	18		110-		SAND, clayey, silty (SC-SM)- Greenish gray (GLEY1 6/1), damp, very dense, fine grained	
SS 23	X	•	18-42-50/5"		-31.5_	115-		SAA	
UD 5				0	31.6_	120-	2111	NO RECOVERY	Direct Push
UD 6				3	-41.5_	125-		NO RECOVERY	Direct Push
SS 24	X	<b>A</b>	9-14-19	27	-44.0_ -44.8_ -45.0	130-		SAND, silty, clavey (SC-SM)- Very dark greenish gray (GLEY1 3/1), moist, dense, fine to medium grained CLAY (CH)- Very dark gray (GLEY1 3/N), damp, hard, high plasticity, -HCL	
SS 25	X	<b>A</b>	13-34-39	20		135-		LIGNITE SAND, silty (SM) - Dark gray (GLEY1 4/N), moist, very dense, fine to medium grained, contains 0.5-2" thick clay layers, -HCL	
SS 26	X		37-37-31	18		140-		SAA except fine to coarse grained	
SS 27	X	<b>A</b>	10-18-37	22	-61.5_	145—		SAA except contains more clay layers	
SS 28	X	<b>A</b>	13-21-31	22	-01.3_	150-		SAND, clavey (SC)- Light bluish gray (GLEY2 8/1), damp, hard, fine to medium grained, high plasticity, -HCL	
SS 29	X	<b>A</b> □	8-7-12	19		155— - - - - 160—		SAA	Water level depth at end of 12/13/2006 = Ground surface
					SITE	- -		His 20 ACOL Day	Water level depth at HOLE NO.
					JILL	V <del>145 of</del>	_	e Units 3 & 4 COL Project Final Log	B-1162



		TECHNICAL LO	~	OJE(		3 & 4	l CO	JOB NO. SHEET NO 6141-06-0286 4 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - 5 2nd 6" 0 3rd 6" - 3	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION (* = field classification adjusted based on	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
UD 7		0 ++		27		165- - - - 170-		SAA	beginning of 12/14/2006 = 4 feet Direct Push
SS 30	X	<b>A</b>	12-22-26	27	-93.3_	175 — - - - - - 180 — -		SAND, clavey (SC) - Light bluish gray (GLEY2 8/1), damp, hard, coarse grained, high plasticity, -HCL	Top of Snapp Formation at a depth of 178.8 feet
SS 31	X	++	22-31-50/5"	27	-101.5_	185-		CLAY (CH) - White (GLEY1 8/N) with red and yellow staining, damp, hard, high plasticity, -HCL	
SS 32 3	X	<b>A</b>	12-21-31		-111.5_ -114.5_	195-		SAND, clayey (SC)- White (GLEY1 8/N), damp, very dense, fine to medium grained, high plasticity, -HCL Boring terminated at 200 feet	
					SITE	V	vogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1162</b>



LOGGED BY COORDINATES BEGUN COMPLETED 12/6/2006 12/6/2006	GE	<b>EO</b> 1	TECHNICAL LC	<b>1</b> C	OJEC		3 Rr A	L C C	OI Project	JOB NO.	06_0286	SHEET NO		HOLE NO. <b>B-1163</b>
Berlief   Banks-MACTEC   CME-550   4 Inches   337153   150.0				•		DINATES					BEGUN	!	COMPLI	ETED
Banks-MACTEC   STEEL	DRILL	ER	S. Woodham	D	RILL									2 <mark>006</mark> TOTAL DEPTH
NOTES ON WATER CONTENT %   C														
A N-VALUE (SPT)				ATER SIT	E:				Vogtle Elect	tric Gene	erating Pla	ant - Wa	vnesbo	ro, GA
SS   20   40   60   80   2.1.2   8   86.0   1									<u> </u>		<u> </u>			-, -
SS	SAMP. TYPE AND NO.	SAMPLE	WATER CONTENT % + ATT. LIMITS %		RECOVERY (in)	ELEVATION IN FEET		GRAPHICS	( * = field o	classification adjus	sted based on	ION	WATER CHARA DRILLIN LABORA	LEVELS, CTER OF IG AND ATORY
SAA	SS		20 40 60 80	2-1-2	8	86.0	_	П	*SILT (MH)	- Brown (7.	5YR 4/4), da	amp, soft	Top of A	Iluvium at a
SAA	l SS		<b>+</b> ++	4-5-6	11		-		SAA except st	tiff	,	•	depth of	0.0 feet
SS   A	SS		<b>++</b>	4-5-5	8	90.5	- - 5		SAA					
SS   A   CLAY, sity (CL-ML)- Gray (GLEY1, very soft   SILT, with sand (ML)- Gray (GLEY1 4/1), very soft   SILT, with sand (ML)- Gray (GLEY1 4/1), very soft   SAA except contains shell fragments   SAA except contains shell fragments   SAA except contains shell fragments   SAA except soft   SA				WOH/18"		_	-	<b>▗▐▗▊</b> ╸ ╸	SILT, with sa (GLEY1 5/1),	and (ML)- moist, very	— — — — — Greenish gra 7 soft	y		
SS   A	SS			WOH/18"		_	- 10		CLAY, silty (					
SS	SS			WOH/18"		75.5_	- 10			and (ML)-	Gray (GLEY	 1 4/1),	_	
SS	SS			2-2-2			-	- -						
SS						69.0	15-	<del>-</del>						
SS   A	SS 8			1-1-1	8	65.0_	20-	-	SILT, sandy ( (GLEY 4/1), r	(ML)- Darl noist, very	k greenish gr soft	ay 		
*CLAY (CH)- Pale olive (5Y 6/3) damp, medium stiff  *CLAY, sandy (CH)- Greenish gray (GLEY1 5/1), damp, stiff, +HCL  *CLAY, with sand (CH)- Greenish gray (GLEY1 32.0 feet  *CLAY, with sand (CH)- Greenish gray (GLEY1 5/1), damp, stiff, +HCL  *CLAY, with sand (CH)- Greenish gray (GLEY1 5/1), damp, stiff, +HCL  *CLAY, with sand (CH)- Greenish gray (GLEY1 6/1), damp, stiff, +HCL  *CLAY, with sand (CH)- Greenish gray (GLEY1 6/1), damp, stiff, +HCL  *CLAY, with sand (CH)- Greenish gray (GLEY1 6/1), damp, stiff, +HCL  *CLAY, with sand (CH)- Greenish gray (GLEY1 6/1), damp, stiff, +HCL  *CLAY, with sand (CH)- Greenish gray (GLEY1 6/1), damp, stiff, +HCL  *CLAY, with sand (CH)- Greenish gray (GLEY1 6/1), damp, stiff, +HCL  *CLAY (CH)- Pale olive (5Y 6/3) damp,	SS 9		<b>A</b>	2-4-7	15	59.0	25-		CLAY, sandy (2.5Y 6/3), mo	y <b>(CL)-</b> Lig pist, mediur	ht yellowish n stiff	brown		
SS 11			++	3-3-3	15	57.6_	30-		*CLAY (CH) medium stiff	- Pale olive	e (5Y 6/3) da	.mp,		
SS   A   2-4-6   24   39.0   SILT, with sand (ML)- Greenish gray (GLEY1 5/1), damp, hard, +HCL   SILT, with sand (ML)- Greenish gray (GLEY1 5/1), damp, hard, +HCL   PREPARED BY: A. TAYLOR   SITE   Vogtle Units 3 & 4 COL Project   HOLE NO.			<b>\</b> ++	3-3-6	24		35-		*CLAY, sand 5/1), damp, sti	ly (CH)- G iff, +HCL	reenish gray	 (GLEY1	Top of E Marl at a 32.0 feet	Blue Bluff a depth of
SS A 6-12-19 19 SILT, with sand (ML)- Greenish gray (GLEY1 5/1), damp, hard, +HCL  PREPARED BY: A. TAYLOR SITE Vogtle Units 3 & 4 COL Project HOLE NO.	SS 12	X	<b>A</b> ++	6-6-6	11	47.0_	40-		*CLAY, with (GLEY1 6/1),	sand (CH damp, stiff	)- Greenish g , +HCL	 gray		
SS SILT, with sand (ML)- Greenish gray (GLEY1 5/1), damp, hard, +HCL  PREPARED BY: A. TAYLOR SITE Vogtle Units 3 & 4 COL Project HOLE NO.		4	•	2-4-6	24	39.0	45-		SAA except co	ontains she	ll fragments			
TO THE PROPERTY OF THE PARTY OF			<b>A</b>	6-12-19	19		- - -					у	HOLENO	
147 of 724						SILE			Final Log		t 			



GE	ΞC	OTE	CHNIC	AL LO	$\mathbf{C}$	OJE(		3 & 4	l C		EET NO.  2 OF	HOLE NO. 3 B-1163
SAMP. TYPE AND NO.	SAMPLE	○ V + A	VATER CONTACT. LIMITS STINES %	TENT %	1st 6" -7 2nd 6" 00 3rd 6" 12	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 15	X	□▲			2-2-9	24	33.5_	- - - 55 —		*SAND (SP)- Dark gray (GLEY1 4/1) to greenish gray (GLEY1 6/1), wet, medium dense, -HCL		Top of Still Branch Formation at a depth of 52.5 feet
SS 16	X		<b>A</b>		5-7-13	17		60-		SAA		
SS 17	X	•			3-4-7	15	19.0_	65—		SAA except greenish gray (GLEY1 5/1)		
SS 18	X	<b>A</b>			5-5-6	0		70 <del>-</del>	-	NO RECOVERY		
SS 19	X				14-40-50/4'	20	9.0_	- 75— -		SAND, with silt (SP-SM)- Dark greenish gray (GLEY1 4/1), wet, very dense, -HCL		Top of Congaree Formation at a depth of 73.0 feet Water level depth at beginning of 12706/2006 = 7.0 feet
SS 20	X	•			3-3-6	25	4.0_	80-		SAND, silty (SM) - Dark greenish gray (GLEY1 4/1), wet, loose, -HCL		
SS 21	X		<b>A</b>		10-15-40	21	-1.1_	85— 		SAND, with silt (SP-SM)- Greenish gray (GLEY 1 5/1), moist, very dense, medium to coarse grained, -HCL	to	
SS 22	X	•	<b>A</b> +		6-8-12	25	-6.1_	90- - -		*CLAY (CH)- Dark greenish gray (GLEY 4/1), damp, very stiff, high plasticity, -HCL	/1 L	
SS 23	X		<b>A</b>		6-9-18	22	-11.1_	95— -		SILT, with sand (ML)- Dark greenish gra (GLEY1 4/1), damp, very stiff, -HCL	ny	
SS 24	X			<b>A</b>	12-22-50	21	-16.1_	100-		SAND, silty (SM)- Grayish green (GLEY1 4/2), wet, very dense, fine to medium grain-HCL	1 ned,	
SS 25	×				50/5"	5	CITE	105-		SAND, with silt (SP-SM)- Light greenish gray (GLEY 8/1), moist, very dense, mediu coarse grained, -HCL		IOLE NO
	Vogtle Units 3 & 4 COL Project Final Log  HOLE NO.  B-1163											



	EC	OTECHNICAL LO	_	OJEC ogtl		3 & 4	C C	JOB NO. SHEET NO. 6141-06-0286 3 OF		HOLE NO. <b>B-1163</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" 00 3rd 6" zt	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field ecologis/enginer)	NOTES WATER CHARA DRILLI	S ON: R LEVELS, ACTER OF NG AND RATORY
SS 26	X	20 40 60 80	29-29-40	15	26.1	110-		SAA		
SS 27	X	<b>A</b>	10-18-18	21	-26.1_	- - 115—		SAND, silty (SM)- Very dark gray (GLEY1 3/), moist, dense, fine to medium grained, -HCL		
SS 28	X	<b>^</b>	10-15-25	21		120-		SAA		
SS 29	X		20-32-50/5"	16		125-		SAA except very dark greenish gray (GLEY1 2.5/2), very dense		
SS 30	X	<b>A</b>	11-17-34	26		130-		SAA		
SS 31	X		12-40-50/5"	16		135—		SAA except light gray (GLEY1 7/)		
SS 32	×		50/6"	5	-51.1_	140-		SAND, with silt (SP-SM)- Greenish gray (GLEY1 5/1), moist, very dense, medium to coarse grained, -HCL		
SS 33	X		22-16-50/5"	23	-56.1_	145—		CLAY, with sand (CL)- Dark gray (GLEY1 4/5), damp, hard, fine to coarse grained SAND, -HCL		
SS 34	X	A	11-16-22	26	-61.1_ -64.1_	150-		CLAY, sandy (CL)- Light gray (GLEY1 7/), damp, hard, -HCL Boring terminated at 150 feet		
					SITE	v	ogtl	e Units 3 & 4 COL Project Final Log	HOLE N	o. -1163



GEO.	TECHNICAL LO	C	OJEC				JOB NO.		SHEET NO		OLE NO.
		•			3 & 4 (	COL Project	6141-0	06-0286	<b>1</b> OF		B-1164
LOGGED BY	R. Clark		OOR	DINATES	N 1146	994.8 E 6245	18.6	BEGUN 1/11/200	17	1/17/2	
DRILLER	N. Ciai k	D	RILL	MAKE AND		HOLE DIAM		HAMMER SE			TOTAL DEPTH
	<b>Banks-MACTEC</b>			$\mathbf{C}$	ME-55(	61	nches		337153		150.0
GROUND EL		TER SITI	E:					DI	4 117		<b>C</b> 4
220.1	♀ / ▼ /					Vogtle Elect	ric Gene	erating Pi	ant - Wa	ynesbor	0, GA
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	lst 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTIC (* = field c laboratory t of sample b	DN AND Cl lassification adju- esting data and/or y field geologist/or	sted based on	ION	NOTES ( WATER I CHARAC DRILLING LABORA TESTING	LEVELS, CTER OF G AND TORY
SS	20 40 60 80	1-1-2	19	220.1	[40]	SAND, with s	ilt (SP-SM	D- Dark vello	wish	Top of Ba	arnwell
1 SS 2 SS 3		1-1-2	18 18			SAND, with s brown (10YR grained, nonpl SAA except st				Group at 0.0 feet	a depth of
$\begin{bmatrix} 3 & \triangle \\ SS & A \end{bmatrix}$	<b>A</b>	3-4-5	18		5-	SAA except yo	ellowish re	d (5YR 4/6),	very fine		
SS X	<b>A</b>	6-6-12	12		10-	SAA except m	edium den	se			
SS X	<b>A</b>	3-5-13	15	207.1	-	SAA except re	ed (2.5YR 4	4/6)			
ss 7	<b>A</b>	17-23-27	14	207.1_	15-	SILT, with sa damp, hard, lo	nd (ML)- w plasticity	Red (2.5YR y, very fine g	4/6), rained		
SS X	<b>A</b>	7-9-11	18	203.1_	20-	*SAND, with 4/6), damp, me nonplastic	clay (SP-Sedium dens	GC)- Red (2.5 se, fine grains	YYR ed,		
SS X	<b>A</b>	8-18-21	16		25—	SAA except st dense, very fir	rong brown ne grained	n (5YR 5/6),	wet,		
UD 1	0 ++		18	188.1	30-	SAA Pocket Penetro TSF	ometer: 0.2	TSF, 0.0 TS	F, 0.1	Direct Pu Water levend of 1/3 Ground s	el depth at
SS 10		2-2-3	18		35-	*SAND, claye moist, medium toughness, -Ho	y <b>(SC)-</b> Yo i stiff, med CL	ellow (2.5Y ium plasticit	7/6), y, low	Water lev	vel depth at
UD 2	<del>6</del> 2+		25	170 1	40	SAA Pocket Penetro TSF	ometer: 1.8	TSF, 1.5 TS	F, 1.5	Direct Pu	sh
SS X	<b>A</b>	1-4-8	18	178.1_ 173.1_	45	CLAY, with s (10YR 6/6), st grained, -HCL	iff, low pla	Brownish you	ellow o medium		
ss	<b>A</b>	9-9-9	12			SAND, with s	ilt (SP-SM	(1)- Yellow (1)	OYR		
	BY: A. TAYLOR BY: P. DEPREE			SITE	Vog	tle Units 3 & 4 Co	OL Projec			HOLE NO.	1164
				I	150 of 72		<del>-</del>				



GEOTECHNICAL LOG Vogtle Units 3 & 4 COL Project JOB NO. SHEET NO. 2 OF 3												HOLE NO. <b>B-1164</b>		
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALU  ○ WATER  + ATT. LI  □ FINES 20 4	R CONTE		1st 6" -7 2nd 6" O 3rd 6" ユ	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	WA CH DR LA	OTES ON: ATER LEVELS, IARACTER OF RILLING AND BORATORY STING		
12							168.1_	-		nonplastic, -HCL				
SS 13	X	<b>A</b>			2-2-3	17	163.1_	55—	- - - -	SILT, with sand (ML)- Yellow (10YR 7/6), moist, medium stiff, low plasticity, fine to medium grained, -HCL				
SS 14	X	•			8-12-17	18	155 6	60-		SAND, with silt (SP-SM)- Pale yellow (2.5YR 7/4), wet, medium dense, fine to medium grained (mostly subrounded), nonplastic				
SS 15	15 (10YR 7/6), wet, very dense, contains cemented fragments, +HCL													
SS 16	×			4	50/4"	5	151.6_	70-		CLAY (CL)- Bluish gray (GLEY2 5/10B), moist, hard, low plasticity, contains angular/cemented nodules, +HCL	Ma	p of Blue Bluff Irl at a depth of 5 feet atter level depth at 1 of 1/12/07 =		
UD 3 SS 17	X	0		4	15-13-50/3"	15 19	142.1	75-		SAA except greenish gray (GLEY1 5/10GY) Pocket Penetrometer: 3.5 TSF, 2.5 TSF,>4.5 TSF	Pit Wa	ound surface cher ater level depth at ginning of 1/16/07 17.0 feet		
SS 18	X	<b>A</b>			9-9-8	6	143.1_	80-		*SAND, silty with cemented fragments (SM) Brownish yellow (10YR 6/6), wet, medium dense, fine grained, nonplastic, +HCL	-			
SS 19	X	<b>A</b>			15-9-7	18	138.1_	85-		CLAY (CL) - Greenish gray (GLEY1 5/5G), moist, stiff, low plasticity, +HCL				
SS 20	X	•			14-14-15	18		90-		SAA except very stiff				
SS 21	X			4	6-9-50/3"	18		95-		SAA except hard, nonplastic	Wa	ater level depth at d of 1/16/07 =		
UD 4		0+		3		9	123.1_	100-		*SILT, with sand (MH)- Greenish gray (GLEY1 5/5G), moist, hard, high plasticity Pocket Penetrometer: >4.5 TSF, >4.5 TSF, >4. TSF	Pite Washes	cher ater level depth at ginning of 1/17/07		
UD 5		0				11		105-		SAA Pocket Penetrometer: >4.5 TSF, >4.5 TSF, >4. TSF	Pit	cher		
	SITE Vogtle Units 3 & 4 COL Project Final Log  B-1164													



GE	EC	TECHNICAL LO	•	OJE(		3 & 4	. C(	JOB NO. SHEET N OL Project 6141-06-0286 3 o	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" 75 2nd 6" 05 3rd 6" 14	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (*= field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 22	X	<b>A</b>	14-19-40	18		110-		SAA and medium toughness	
SS 23	×	•	24-50/2"	12		- - 115—		SAA except greenish gray (GLEY1 6/5GY)	
SS 24	$\boxtimes$	•	13-50/1.5	8		120-		SAA	
SS 25	X	<b>A</b>	19-30-47	19		125—		SAA	
SS 26	X	<b>A</b>	8-10-12	18		130-		SAA except very stiff	
SS 27	X	<b>A</b>	7-9-13	18	83.3_	135—		SAA and contains trace of shell hash and fossils	
SS 28	X	<b>A</b>	4-5-8	5	63.3_	- - 140—		SAND, with clay (SP-SC)- Very dark greenish gray (GLEY1 3/10Y), wet, medium dense, fine grained, nonplastic, weak +HCL	Top of Still Branch Formation at a depth of 136.75 feet
SS 29	X	<b>A</b>	8-9-15	10		145—		SAA except dark greenish gray (GLEY1 4/5GY), very fine grained, -HCL	
SS 30	X	<b>A</b>	19-15-24	18	70.1_	150-		SAA except dense  Boring terminated at 150 feet	_
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1164</b>



G	=_	TECHNICAL LO	<u>-</u>	OJEC				JOB NO.		SHEET NO		HOLE NO.
			•			3 & 4 C	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	2 COMPLE	B-1166
LOGG	EDE	S. Woodham		OUR	DINATES	N 11474	53.0 E 6239	061 6	12/15/20	06	1/11/2	
DRILL	ER	5. Woodham	D	RILL	MAKE AND		HOLE DIAM		HAMMER SE			TOTAL DEPTH
0001	N.D.	Banks-MACTEC			C	ME-550	31	nches		337153		100.0
GROU 2	03.	$\nabla$ /	ER SITI	E:			Vogtle Elect	ric Gene	erating Pl	ant - Wa	vneshoi	ro. GA
		<u></u> /					v ogtie Elect		or willing 1 in	1110 110	y Hesso.	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" - <del>7</del> 2nd 6" O 3rd 6" <del>Z</del>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTIC  (* = field c laboratory to f sample b	ON AND CI lassification adju- esting data and/or y field geologist/or	sted based on	ION		LEVELS, CTER OF G AND ATORY
SS		20 40 60 80	0-1-1	18	203.4	 	SAND, silty, o	lavev (SC	-SM)- Reddi	sh	Top of B	arnwell
1 SS 2 SS 3		<b>A</b>	2-3-5 5-6-6	18 19			SAND, silty, obrown (5YR 4 of roots SAA except your SAA except m	ellowish re	d, loose	resence	Group at 0.0 feet	a depth of
SS 4		<b>A</b>	5-5-6	17	197.9_	5-[2]	SAND, silty (samp, medium	SM)- Yello dense, fin	= owish red (5Yne grained	 /R 5/8),		
SS 5		<b>A</b>	4-42-8	14		10-	SAA					
SS 6	X	<b>A</b>	5-7-7	14			SAA					
SS 7	X	^	7-13-17	14		15	SAA except co material, dens	ontains son	ne lighter col	ored		
SS 8	X	<b>A</b>	12-14-17	16	181.4	20-	SAA except re brown (10YR	ed (2.5YR 4 5/8)	4/8) and yello	owish		
SS 9	X	<b>A</b>	7-8-10	16	101.4_	25-	SAND, sitly, of yellowish browdense	clayey (SC vn (2.5Y 6	- <b>SM)</b> - Light /4), damp, m	edium		
SS 10	X	<b>A</b>	6-6-8	18	171.4	30	SAA					
SS 11	X	<b>A</b>	6-5-8	15	1/1.4_	35-	SAND, clayey (2.5YR 6/3), o plasticity, fine	(SC) - Lig amp, medi grained	tht yellowish um dense, lo	brown w		
SS 12	X	<b>A</b>	5-7-9	14	161.4	40-	SAA except co	ontains trac	ces of SILT			
SS 13	X	<b>A</b>	6-8-10	9	156.4	45-	SAND, silty (10 (10 (10 (10 (10 (10 (10 (10 (10 (10	SM)- Light amp, medit ed	t yellowish b um dense, fin	rown e to		
SS	X	<b>A</b>	2-3-4	27			SAND, silty, o				a depth of	circulation at of 48.5 feet
		D BY: A. TAYLOR D BY: P. DEPREE			SITE	Vog	tle Units 3 & 4 Co Final Log		t		HOLE NO.	1166
1 X L V I C	**L	D D DEI NEE			<u> </u>	153 of 72		•			D-	1100



GE	ΞC	TECHNICAL LO	<u> </u>	OJEC ngtl		3 & 4	l Co		ET NO. <b>2</b> OF	HOLE NO. <b>B-1166</b>				
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" 72 2nd 6" O 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (*= field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING				
14 SS 15	X	<b>A</b>	2-5-10	18		- - - - 55—		grained, -HCL  SAA except yellowish brown (10YR 5/6), medium dense						
SS 16	X	<b>A</b>	4-5-8	17	141.4	60-		SAA except light olive brown (2.5YR 5/4)	;	End loggng by S. Woodham. Begin logging by R				
SS 17	X	<b>A</b>	5-7-19	26		65—		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/1), damp, very stiff, low plasticit +HCL	ty,	Woodham. Begin logging by R. Clark. Top of Blue Bluff Marl at a depth of 62.0 feet				
SS 18	X		12-50/6"	14	131.4_	70—		SAA except hard	]	Water level depth at beginning of 01/11/2007 = 55.0 feet				
SS 19	×		50/2"	1	126.4_	75— -		*CLAY, with shell hash (CL)- Greenish g (GLEYI 6/10GY), moist, hard, low plastici +HCL		reet				
SS 20	X	<b>A</b>	13-21-28	21		80-	- - -	<b>SILT (ML)</b> - Greenish gray (GLEY1 6/10GY), moist, hard, low plasticity, +HCL						
SS 21	X		19-22-50/3"	22		85 — 	-	SAA except low toughness						
SS 22	X	<b>A</b>	14-14-16	19		90— - - -	- - - -	SAA except medium toughness						
SS 23		<b>A</b>	8-10-12	20		95— - - -	-	SAA except very stiff						
SS 24	X		11-12-13	20	103.4_	100-		SAA except stiff  Boring terminated at 100 feet						
		SITE Vogtle Units 3 & 4 COL Project Final Log  B-1166												



GE	Ξ	OTECHNICAL LOG	~	OJE(		3 & 4 CC	OL Project	JOB NO.	6-0286	SHEET NO 1 OF		HOLE NO. <b>B-1168</b>
LOGG	ED	BY			DINATES		)L i i oject	0111	BEGUN	1 01	COMPL	
2011		B. Sharp		<b></b> .			88.5 E 62340		1/23/200		1/25/2	
DRILL	ΕK	Skoglund-MACTEC	D	RILL	MAKE AND	trich <b>D-5</b>	HOLE DIAME	iches	HAMMER SE	100	ER	100.0
GROU	ND	EL. DEPTH/EL. GROUND WAT	ER SITI	E:	Dict	11 CH D-3	0   311	iciics		100		100.0
2	02	2.2 <sup>▼</sup> / <sub>▼</sub> /					Vogtle Electr	ic Gene	rating Pl	ant - Wa	ynesbo	ro, GA
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" - <del>z</del> 2nd 6" <u>0</u> 3rd 6" <u>z</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIOI (* = field cla laboratory tes of sample by	N AND CL essification adjusting data and/or field geologist/e	ted based on	ION	CHARA	LEVELS, CTER OF NG AND ATORY
CC		20 40 60 80	2-3-2	17	202.2	2: 1111	CAND:41:1	4 (CD CM		1	Т £1	D11
SS 1 SS 2 SS	X	<b>A</b>	4-3-3 4-3-3	13	200.7_	- <u> </u> 31111 -   -	SAND, with sil (10YR 5/6), mo SAND (SP) - Y moist, loose, fir	oist, loose, ellowish b ne grained	fine grained frown (10YR	2 5/6),	Group a 0.0 feet	Barnwell t a depth of
3	X		4-5-5	10		5	SAA except pal yellow (10YR 6	ie yellow ( 5/6)	2.5 Y 8/4) to	brownish		
SS 4	X	<b>A</b>	6-12-22	18	195.4_	- - -//	SAA except bromedium dense t	ownish yel to dense, f (SC) - Mo	low (10YR of the to medius)	6/6), m grained sh		
SS 5	X		15-17-21	14.5		10	SAND, clayey brown (10YR 5 dense, fine grai SAA	ned	(2.3 I K 4/0),	, illoist,		
SS 6	X		12-15-22	12.5			SAA					
SS 7	X	<b>A</b>	15-17-21	15.5		15-	SAA except yel	llowish red	d (5YR 5/8)		Water le	evel depth at /23/07 =
SS 8	X	<b>A</b>	11-12-12	14	185.2_ 180.2	20-	SAND, with sil (5YR 6/8), dam grained, nonpla	ıp. mediun	)- Reddish yn dense, med	ellow lium	End log	surface ging by B. ogging by D.
SS 9	X	<b>A</b>	11-12-17	15	160.2_	25	SAND, clayey 6/8), damp, med grained, low pla	(SC) - Red dium dens asticity	dish yellow e, fine to me	(7.5YR dium		
SS 10	X	<b>A</b>	6-6-8	15	170.2_	30-	SAA except str	ong browr	ı (7.5YR 5/8	)		
SS 11	X	<b>A</b>	5-7-7	13		35-	SAND, with sil (7.5YR 5/6), we medium grained	It (SP-SM et, mediun d	)- Strong bro n dense, fine	own to		
SS 12	X	•	7-10-12	15		40-	SAA					
SS 13	X	<b>A</b>	10-13-18	16		45-	SAA except rec medium to coar	ldish yello se grained	w (7.5YR 6/	(8), dense,		
SS	X	<u> </u>	8-11-12	13			SAA except structure dense, fine grain	ong browr	1 (7.5YR 5/6 astic, -HCL	), medium		
		ED BY: A. TAYLOR			SITE	Vogtle	e Units 3 & 4 CO Final Log	DL Project	t		HOLE NO	
REVIE	WE	ED BY: P. DEPREE						D.	-1168			



GE	ΞC	TECHNICAL LO	_	OJEC		3 & 4	C	JOB NO.   S DL Project   6141-06-0286	SHEET NO <b>2</b> OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" <u>S</u> 3rd 6" <u>Z</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATIO  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS 15	X	•	9-11-11	14	145.2_	- - - 55—		SAA except brown (7.5YR 4/4), damp		
SS 16	X	<b>A</b>	11-12-19	18	143.2_	60-	-	SILT (ML) - Greenish gray (GLEY1 5/10GY), damp, hard, nonplastic, +HCL		Top of Blue Bluff Marl at a depth of 57.0 feet
SS 17	X		16-26-50/3"	20	135.2_	65—	- - - -	SAA		
SS 18	×	,	50/2"	0	131.2_	70-		NO RECOVERY		
SS 19	X	<b>A</b>	17-24-34	20		75—		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/5GY), damp, hard, low plast +HCL	icity,	
SS 20	×		50/3"	7		80-		SAA		
SS 21	X		16-20-50/5"	18		85-		SAA		
SS 22	X	<b>A</b>	11-10-16	20		90—		SAA		Water level depth at end of 1/24/07 = Ground surface
SS 23	X	<b>A</b>	22-33-29	20		- 95— -		SAA except greenish gray (GLEY1 6/10	OY)	Water level depth at beginning of 1/25/07 = 39.0 feet
SS 24	X	<b>A</b>	16-17-16	21	102.2_	100-		SAA  Boring terminated at 100 feet		
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1168</b>



GE	ΞΟ'	TECHNICAL LO	C	OJEC		204		OI Davidad	JOB NO.	0206	SHEET NO		HOLE NO.
LOGG			•		DINATES	3 & 4	·C	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	B-1170 LETED
		M. Herrera			]	N 114				1/17/200		1/19/	2007
DRILL		Skoglund-MACTEC	D	RILL	MAKE AND	o MODE trich ]	_	HOLE DIAM		HAMMER SE	RIAL NUMB	ER	98.9
GROU		L. DEPTH/EL. GROUND WA	TER SIT	E:	Diet	trien	D-9	0 31	nches		100		98.9
2	23.3	<b>3</b>						Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	oro, GA
		▲ N-VALUE (SPT)		(u		L							
SAMP. TYPE AND NO.		O WATER CONTENT %	N-COUNT	RECOVERY (in)	ELEVATION IN FEET	N FT	IICS					NOTES WATER	SON: R LEVELS,
F.5	Σ		1st 6" 2nd 6" 3rd 6"	)VEI	[A]	DEPTH IN	GRAPHICS	DESCRIPTIO	lassification adju-	sted based on	ION		ACTER OF NG AND
SAN		+ ATT. LIMITS %		SEC(	밀스	当	GR	laboratory t of sample b	esting data and/or y field geologist/o	re-examination engineer)			ATORY
ı		☐ FINES % 20 40 60 80			223.3							120111	
SS 1	M.		2-1-2	14		_		<b>SAND, with s</b> (10YR 5/4 to 5	ilt (SP-SM 5/6), damp,	)- Yellowish very loose,	brown ine to	Top of Group a	Barnwell at a depth of
SS			2-1-2	16		-		medium graine SAA except ye	ed be			0.0 feet	at a depth of
SS 2 SS 3		<b>`</b>	1-2-2	19	217.0	5-		SAA					
SS 4		<b>A</b>	3-3-4	24	217.8_	- - -		SAND (SP) - I wet, loose, me	 Brownish y dium grain	ellow (10YR ed, sub-roun	 6/6), ded		
SS 5	X	<b>A</b>	5-5-8	24		-		SAA except m					
SS 6	X	<b>A</b>	6-5-7	20	211.8_	10-	7//	SAA except re	ddish yello	ow (7.5YR 7/	(6)		
SS		<b>A</b>	7-9-14	27		-		SAND, clayey medium dense SAA except re	, medium g	grained, roun	ded		
7	Å					15-		Вин смеерене	u (2.5 110 )	,,,,,			
						-							
SS	M	<b>A</b>	13-13-17	27		-		SAA except ye	ellowish re	d (5YR 5/8),	fine to		
8						20-		medium graine	ea				
						-							
SS	M	<b>A</b>	13-17-24	23		_		SAA					
9						25-							evel depth at 1/17/07 =
					196.3_	-						Ground End log	surface gng by M.
SS	$\forall$	4	10-14-24	18	193.8_	_		SAND, with s	ilt (SP-SM	)- Reddish y	ellow	Begin le	ogging by R.
10	$\mathbb{H}$				193.5	30-		SAND, with s (7.5YR 7/8), n grained, nonpl	astic	Raddish vol	low	Clark. Water l	evel depth at ng of 1/18/07
						_		CLAY, with s (7.5YR 7/6), n	noist verv	stiff high nla	asticity / l	= Borel	nole dry
SS	$\forall$	<b>A</b>	8-10-14	18		-		SAND, with c (7.5YR 7/8), n nonplastic					
11	$\mathcal{A}$					35-		SAA except your very fine grain	ellow (10Y ied	R 7/8), medi	um dense,		
						_							
SS	$\forall$	<b>A</b>	10-8-10	17		-		SAA except yo	ellow (10Y	R 9/6), and -	HCL		
12	$\mathcal{A}$					40-							
					181.3_	_							
SS	$\forall$	<b>A</b>	5-5-9	18		-		CLAY, with s	and (CL)-	Brownish y	ellow		
13	$\mathcal{H}$					45-		CLAY, with s (10YR 6/6), m fine grained S.	oist, stiff, l AND, -HC	ow plasticity L	, very		
						_							
SS	$\forall$	<b>A</b>	5-5-7	18		-		SAA except ye	ellow (10Y	R 7/6) and lo	ow		
PREP	V V ARED	BY: A. TAYLOR			SITE	V	ogtl	toughness e Units 3 & 4 C		t		HOLE NO	
REVIE	WED	BY: P. DEPREE				157 of	724	Final Log	5			B	<u>-1170</u>
						31							



GE	ΞC	TECHNICAL LO	<u> </u>	OJE(		3 & 4	L C (	JOB NO.  OL Project 6141-06-0286	SHEET NO				
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATI  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING			
14		20 40 60 80			171.3_	-				Water level depth at beginning of 1/19/07 = 21.5 feet End loggng by R.			
SS 15	X	<b>A</b>	8-6-9	12	166.3_	55-	- - -	SAND, with silt (SP-SM)- Brownish (10YR 6/8), damp, medium dense, med coarse grained, -HCL	yellow dium to	Clark. Begin logging by M. Herrera.			
SS 16	X	<b>A</b>	6-6-11	13	161.3_	60-		CLAY, sandy (CL)- Light red (10R 6 very pale brown (10YR 7/4), moist, ve medium plasticity, medium grained SA-HCL	/6) and ry stiff, ND,				
SS 17	X	<b>A</b>	3-4-5	2	156.3	65-		SAND, clayey (SC)- Pale yellow (2.5' moist, loose, fine to medium grained, r plasticity CLAY, -HCL	Y 7/3), medium				
SS 18	X	<b>A</b>	12-12-14	14	151.3	70-		SAND, silty (SM)- Yellow (10YR 7/6 moist, medium dense, fine grained, cortrace black sand, -HCL	), ntains				
SS 19	X	<b>A</b>	10-13-17	9	146.3	75-		SAND, with silt (SP-SM)- Light yello brown (10YR 6/4), wet, medium dense grained, sub-rounded, -HCL	wish e, coarse				
SS 20	X	<b>A</b>	12-12-14	13		80-		SAND, clayey (SC)- Yellow (10YR 7, moist, medium dense, medium grained	/6), , -HCL				
SS 21	X	<b>A</b>	6-6-9	21	141.3_	85-		SILT (ML) - Dark yellowish brown (1 4/6), moist, stiff, low plasticity, contain fine grained SAND, -HCL	0YR ns some				
SS 22	X	<b>A</b>	13-15-15	13	136.3_	90-		SAND, silty (SM)- Brown (7.5YR 5/4 moist, medium dense, fine grained, rou-HCL	), inded,				
SS 23	X	<b>A</b>	4-6-10	23	131.3_ 126.3	- - 95 –		CLAY, silty with sand (CL-ML)- Ye (10YR 7/6) and pale yellow (2.5Y 7/4) very stiff, medium plasticity, contains grained SAND, -HCL	fine				
SS 24		•	50/.5"	0	124.4_	-		NO RECOVERY Boring terminated at 98.92 feet					
		<u> </u>			SITE	V 158 of	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1170</b>			



D. Brooks  D. Brooks  N 1146983.4 E 622538.7  DRILLER  DRILL MAKE AND MODEL  HOLE DIAMETER  HAMMER SERIAL NUMBER  Skoglund-MACTEC  Dietrich D-50  3 Inches  100  GROUND EL.  DEPTH/EL. GROUND WATER  249.5  Vogtle Electric Generating Plant - Waynes  N-VALUE (SPT)  WAT  WAT  CHA  DRILL  N-COUNT  So  Paril  So	B-1172  MPLETED  26/2007  TOTAL DEPTH  100.0  Sboro, GA  TES ON: TER LEVELS, ARACTER OF LLING AND
DRILL MAKE AND MODEL  Skoglund-MACTEC  Dietrich D-50  3 Inches  100  GROUND EL. DEPTH/EL. GROUND WATER  249.5  Vogtle Electric Generating Plant - Waynes  Vogtle Electric Generating Plant - Waynes  N-VALUE (SPT)  WATER CONTENT %  HAMMER SERIAL NUMBER  100  Vogtle Electric Generating Plant - Waynes  NOT  WAT  CHA  DRILL MAKE AND MODEL  HOLE DIAMETER  HAMMER SERIAL NUMBER  100  DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)  DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)  DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	Sboro, GA  TES ON: TER LEVELS, ARACTER OF
Skoglund-MACTEC  GROUND EL. DEPTH/EL. GROUND WATER  249.5	sboro, GA  TES ON: TER LEVELS, ARACTER OF
GROUND EL. DEPTH/EL. GROUND WATER SITE:  249.5	sboro, GA  TES ON: TER LEVELS, ARACTER OF
MATT. LIMITS %  FINES %  20 40 60 80  A N-VALUE (SPT)  N-COUNT  S P D S S P S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S S P S P S S P S S P S S P S S P S P S S P S	TES ON: TER LEVELS, ARACTER OF
O WATER CONTENT %  S P D S S S P D S S S P D S P D S S P D S S P D S	TER LEVELS, ARACTER OF
	BORATORY STING
55  V	of Barnwell
SS 1 1-1-2 12 3-3-6 12 SAND, with silt (SP-SM)- Brownish yellow (10YR 6/6), damp, very loose, fine grained, nonplastic SAA except reddish yellow (7.5YR 6/8), loose SAA system SAA	up at a depth of feet
SS 4 SAA except medium to coarse grained	
SS 5 SAA except strong brown (7.5YR 5/8), medium dense, medium grained	
SS 6 2 6-11-15 19 236.5 SAA	
SS 7 SAND (SP) Reddish yellow (7.5YR 6/8), damp, dense, coarse grained, nonplastic	
SS 8 2 232.5 232.5 20 232.5 20 232.5 20 20 20 20 20 20 20 20 20 20 20 20 20	
SS 9 SAND, with silt (SP-SM)- Red (2.5YR 5/8), damp, medium dense, fine to medium grained, nonplastic	
SS 10 SAA 30 - 1 SAA	
SS N SAA except reddish yellow (7.5YR 6/8), fine grained, -HCL	
SS 12	
SS 13 SAND, with clay (SP-SC) Yellowish red (5YR 5/8), damp, medium dense, fine to medium grained, low plasticity, -HCL	
SS SAA except brownish yellow (10YR 6/8)	
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SITE Vogtle Units 3 & 4 COL Project Final Log	B-1172



GEOTECHNICAL LOG  PROJECT  Vogtle Units 3 & 4 COL Project    SHEET NO.   2 OF 2														
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z- 2nd 6" - O 3rd 6" - z-	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING						
14 SS 15	•	4-5-6	18		- - - - 55—		SAA except medium to coarse grained							
SS X	7 <b>A</b>	4-4-9	19		60-		SAA except yellow (10YR 7/6), fine grained							
SS X														
SS X	7 🛕	3-3-4	CLAY, sandy (CL)- Yellow (10YR 7/6), damp, stiff, low plasticity, fine grained SAND, -HCL											
SS 19	•	3-4-4	20	172.5_	75—		SAA							
SS Z		3-3-3	20	167.5_	80-		*CLAY, silty (CL-ML)- Yellowish brown (10YR 5/8), damp, medium stiff, low plasticity, contains shell hash, -HCL							
SS Z1		3-4-3	22	162.5_	85— -		CLAY, sandy (CL)- Reddish yellow (7.5YR 6/6), damp, medium stiff, low plasticity, fine to medium grained SAND, -HCL							
SS Z2		4-3-5	0	157.5_	90- - -		NO RECOVERY	Water level depth at end of 1/25/07 = Ground surface						
SS Z3	•	5-5-6	16		95 — -		SAA except stiff	Water level depth at beginning of 1/26/07 = 68.75 feet						
SS 24	•	5-6-7	18	149.5_	100-		SAA  Boring terminated at 100 feet							
				SITE	v	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1172</b>						



	TECHNICAL LO	•						NO.	SHEET NO.		
LOGGED BY COORDINATES BEGUN COI											
	D. Brooks/C. Gandy			]			6.1 E 622228.1	1/26/20	07	2/9/2007	
DRILLER	Skoglund MACTEC	D	RILL	MAKE AND			HOLE DIAMETER		ERIAL NUMB		
GROUND EL		ER SITI	E:	Diet	rich	D-9	0 3 Inche	es	100	100.0	
225.8	<u> </u>		1 1			,	Vogtle Electric (	Generating Pl	lant - Wa	ynesboro, GA	
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AN  (*= field classificati laboratory testing dar of sample by field ge	ID CLASSIFICAT ion adjusted based on ta and/or re-examination cologist/engineer)	rion	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING	
SS X SS X SS X	20 40 60 80 <b>A</b>	5-6-8 11-16-27 12-15-18	18 16 17	225.8 222.6_ 220.3_	5-		SAND, with silty cl red (5YR 5/8), damp medium grained, lov SAA except reddish medium to coarse gr SAND, with silt (10YR 6/6), damp, c grained, nonplastic	lay (SP-SC)- Yello, medium dense, w plasticity yellow (7.5YR 6 rained P-SM)- Brownish dense, medium to	lowish fine to 1/8), dense, vellow coarse	Top of Barnwell Group at a depth o 0.0 feet	
SS 4 SS V	<b>A</b>	11-13-17 5-7-9	18	217.8_	- - -		SAND, with silty cl yellow (10YR 6/8), fine grained, low pla CLAY, sandy (CL) 6/6), damp, yery stil	asticity			
5 SS S 6	<b>A</b>	4-5-8	17	215.3_ 212.8_	10-		6/6), dámp, verý stíř grained SAND, -HC CLAY (CL) - Yello medium plasticity, -	L			
SS 7	<b>^</b>	5-5-8	19	208.8_	15 <del>-</del> -		CLAY, sandy (CL) 6/6), damp, very stif medium grained SA	- Brownish yello ff, low plasticity, ND, -HCL	w (10YR fine to		
	<b>A</b>	3-4-5	15	203.8_	20-		SAND, with silty cl (2.5Y 7/4), damp, lo grained, low plastici	ay (SP-SC)- Pale lose, very fine to ity, -HCL	yellow fine	Losing circulation from depths of 20 to 25.0 feet	
SS 9		3-2-1	17	198.8	25-		CLAY, sandy (CL) damp, soft, low plas +HCL	- Pale yellow (2 ticity, fine graine	5Y 7/4), d SAND,		
SS ×	•	50/4"	5		30-		*CLAY, silty, sand (2.5Y 8/3), damp, he SAND, contains she	y (CL-ML)- Pale ard, fine to mediu ell hash, +HCL	e yellow im grained		
SS X	<b>A</b>	13-21-16	18		35-		SAA				
SS X	<b>A</b>	17-23-31	20	102.0	40-		SAA			Water level depth end of 1/26/07 =	
SS X	<b>A</b>	12-14-18	20	183.8_ 178.8_	45 <del>-</del>		*CLAY (CL) - Very damp, hard, low plate fragments from 0.25 +HCL	y pale brown (10) sticity, contains s " to 0.5" in diam	YR 8/4), hell eter,	Ground surface End logging by D. Brooks. Begin logging by Gandy. Water level depth beginning of 2/8/0 Borehole dry	
SS	BY: A. TAYLOR	12-14-21	16	SITE		Youth	*CLAY, silty, with brown (10YR 7/4), o Units 3 & 4 COL Pr			Installed 4" steel casing to a depth of 43.0 feet.	
	BY: A. TAYLOR BY: P. DEPREE				161 of		Final Log	i ojeti		B-1174	



GEOTECHNICAL LOG PROJECT JOB NO. SHEET NO. 2 OF 2														
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -7 2nd 6" O 3rd 6" -1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING					
14		20 40 00 80			173.8_	-		contains shell fragments from 0.1" to 1" in diameter, +HCL	Water level depth at beginning of 2/9/07 = Borehole dry					
SS 15	×	4	50/3"	4	168.8_	55 —		*SHELL HASH, with silt and sand (GP-GM - Very pale brown (10YR 8/4), wet, hard, nonplastic, +HCL						
SS 16	X	<b>A</b>	12-17-23	19	163.8_	60-		*CLAY, silty with sand (CL-ML)- Very pale brown (10YR 8/3), damp, hard, low plasticity, contains shell fragments, +HCL						
SS 17	X	•	9-22-20	25	158.8_	65 —		*CLAY, sandy (CL)- Very pale brown (10YR 8/4), moist, hard, medium plasticity, contains shell fragments from 0.25" to 1" in diameter, +HCL						
SS 18	*SHELL HASH, with clay and sand (GP-GC) - Very pale brown (7.5YR 8/2), moist to wet, hard, nonplastic, +HCL													
SS 19	X	<b>A</b>	28-13-13	17	148.8_	75—		*SAND, clayey (SC)- Very pale brown (10YR 7/3), moist, medium dense, low plasticity, contains shell fragments, 0.25" to 1" in diameter, +HCL						
SS 20	SS ( *CLAY, with sand (CL)- Very pale brown													
SS 21	X	<b>A</b>	21-20-15	20.5	138.8_	85 <del>-</del>		CLAY, silty (CL-ML)- Very pale brown (10YR 7/4), damp, hard, low plasticity, contains shell hash, +HCL						
SS 22	SS  *CLAY, sandy (CL)- Very pale brown													
SS 23	X	•	40-50/4"	14	128.8_	95—		CLAY, silty (CL-ML)- Brownish yellow (10YR 6/6) to greenish gray (GLEY1 10Y), damp, hard, low plasticity, contains shell hash and sub-parallel laminations, +HCL						
SS 24	X	<b>A</b>	10-12-28	27	SAND, silty (SM)- Light yellowish brown (10YR 6/4), moist, dense, nonplastic, contains shell hash and sub-parallel laminations, +HCL Boring terminated at 100 feet									
					SITE	V	ogtl	e Units 3 & 4 COL Project	HOLE NO. <b>B-1174</b>					
						400		Final Log	D-11/4					



		TECHNICAL LO	3 V		e Units	3 & 4	CC	L Project	JOB NO. <b>6141-</b> (	06-0286	SHEET NO	1	HOLE NO. <b>B-1176</b>
DRILLE	R	R. Clark			MAKE AND	MODE	L	6.3 E 6221	ETER	1/3/200 HAMMER SI	ERIAL NUMB	1/5/2 EER	007 TOTAL DEPTH
GROUN		Skoglond-MACTEC  L. DEPTH/EL. GROUND WAT	ER SITE	<u> </u>	Diet	rich I	D-5(	0 4 I	nches		100		35.0
	21.5	$\nabla$ /					,	Vogtle Electi	ric Gene	erating Pl	ant - Wa	ynesbo	ro, GA
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" ' 75 2nd 6" ' 05 3rd 6" ' 45	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIO  (* = field cl laboratory te of sample by	assification adiu		TION		LEVELS, CTER OF NG AND ATORY
SS 1 SS 2 SS 3 SS 4 SS 5 SS 6 SS 7 SS 8 SS 9 SS 10 SS			5-7-9 8-7-6 3-4-4 2-2-3 5-5-8 6-8-11 4-4-8 4-7-15	17 17 18 18 18 18 18 17 17	207.8_ 202.0_ 199.5_	5- 10- 15- 20- 25- 30-		SAND, with si (5YR 4/4), dry grained, nonpla SAA except no SAA except revery fine to fin SAA except revery fine to fin SAA except ye strong brown (dense, fine graigrained, subrou SAA except recoarse SAND is SAA SILT (ML) - Yyellow (7.5YR low dry strength SAA except pastaining *CLAY (CL) very stiff, low fragments (whith SAA), moist, der contains shell fine SAA except padense, very fin CLAY, silty, s	ddish browe grained ellowish reddish browe grained ellowish referenced ellowish referenced ellowish reddish yellow (10 6/8), moisth, low tout the yellow (10 10 10 10 10 10 10 10 10 10 10 10 10 1	d (5YR 5/6), wn (5YR 4/4) d (5YR 5/6), moist, medins trace coartz fragments ow (7.5YR 6 lar  YR 7/6) and st, stiff, low ghness  (5Y 7/4), contains she (1), angular)  C)- Pale yellerained, nonpand iron stair (5Y 8/2), metained	reddish plasticity,  ntains iron moist, ll +HCL ow (5Y lastic, ning,	Top of I Group a 0.0 feet	Barnwell t a depth of
11					186.7_	35	2222	CLAY, silty, s (5Y 8/4), moist strength, low to grained SAND hash as well as Boring termina in the borehole for continuatio	ted at 34.8 Refer to	ing, +HCL 33 feet due to	tools lost	Water le end of 1 feet	evel depth at $\frac{4}{07} = 2.2$
		BY: A. TAYLOR			SITE	V	ogtle	Units 3 & 4 CC		t		HOLE NO	
REVIEV	VED	BY: P. DEPREE				<del>163 of</del>	<del>724</del>	Final Log	<u> </u>			B.	<u>-1176</u>



COMPONATES   COMPONATES   STEEL   Skoglund-MACTEC   Skoglund-MAC	GF	= (	OTECHNICAL LOG	PRC			2 2 4	~		JOB NO.		SHEET NO		OLE NO.
M. Cooke   M. Cooke   District   District   D. South   M. Cooke   District   D. South							3 & 4	CC	DL Project	6141-0		<b>1</b> OF		
Skoglund-MACTEC			M. Cooke			]								
SEE B-1176 FOR LITHOLOGY TO 35 FEET    Section   Section	DRILL	EK		אטן	KILL						HAMMER SE		EK	
A N-VALUE (SPT)	1		EL. DEPTH/EL. GROUND WATER	SITE	:		-				4. DI			
20 40 60 80 221.5    10	2	11.	.5 <u>¥</u> /		I				Vogtle Electi	ric Gene	erating Pl	ant - Wa	ynesbor	70, GA
SEE B-1176 FOR LITHOLOGY TO 35 FEET  10-  15-  10-  20-  25-  30-  30-  25-  30-  30-  30-  30-  30-  30-  30-  40-  4	SAMP. TYPE AND NO.	SAMPLE	O WATER CONTENT %  + ATT. LIMITS %  □ FINES %	2nd 6" Ö 3rd 6" ⊐	RECOVERY (in)		DEPTH IN FT	GRAPHICS	( * = field cl	assification adjus	ted based on	ION	WATER CHARAC DRILLING LABORA	LEVELS, CTER OF G AND TORY
SS SAA  PREPARED BY: A. TAYLOR  REVIEWED BY: P. DEPREE  SITE Vogtle Units 3 & 4 COL Project Final Log  HOLE NO.  B-1176A	1 SS						10— 15— 20— 25— 30— 40—		*SHELL HAS (GC-GM) - Ve very dense, +H SAA except de consisting of sl carbonate mud	SH, silty, clery pale broccle.	layey with s	and /4), wet,	Limeston	e at a depth
REVIEWED BY: P. DEPREE Final Log B-1176A	SS	X	13	-13-22	18		- - -	00000	SAA	i sampie				
164 of 724						SITE		_			t			



GEOTECHNICAL LOG  PROJECT  Vogtle Units 3 & 4 COL Project    OF The Color of the Co														
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6"	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING				
3		20 40 00 00			169.5_	-								
SS 4	X	<b>A</b>	18-11-17		165.0_	55—		SILT, with sand (ML)- White (7.5YR 8/1 moist, very stiff, low plasticity, fine graine SAND, contains crushed shell fragments, +HCL	1), ed — —					
SS 5	X	•	26-25-50/5"	18	159.5_	60-		SAND, silty (SM)- White (7.5YR 8/1), movery dense, fine to coarse grained, contains shell hash and cemented zones, +HCL		Water level depth at end of 1/11/07 = Ground surface				
SS 6	X	<b>A</b>	14-14-40	15	154.5_	65 —		SAND, with clay (SP-SC)- Pale yellow (2 8/2), damp, very dense, fine to medium gra low plasticity, contains shell hash and cem zones, +HCL	2.5Y rained, nented	Ground surface End logging by M. Cooke. Begin logging by R. Clark.				
SS 7	X		17-22-50/2"	13		70 <del>-</del>		SAND, silty (SM)- Pale yellow (2.5Y 8/2) damp, very dense, fine to medium grained, plasticity, contains shell hash, +HCL	), , low	Drilled through 2'				
SS 8	X	<b>A</b>	14-16-28	20	149.0_	75—		SILT (ML) - Greenish gray (GLEY2 5/1), damp, hard, nonplastic, +HCL	,	void at 71.0 feet Top of Blue Bluff Marl at a depth of 72.5 feet				
SS 9	SS 9													
SS 10	X	<b>A</b>	24-27-49	22		85—		SAA						
SS 11	X	<b>A</b>	13-17-36	23		90—		SAA						
SS 12	X	•	36-38-50/4"	23	SAA									
SS 13	X	<b>A</b>	28-34-49	23	121.5_	100-		SAA Boring terminated at 100 feet						
					SITE	V 165 of		e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1176A</b>				



GE	ΞC	OTECHNICAL LO	<b>⊇</b> ∣	OJEC		2 8- 1		N. Duoinat	JOB NO.	06-0286	SHEET NO		HOLE NO.
LOGG			•		DINATES	3 & 4	···	OL Project	0141-0	BEGUN	1 OF	COMPL	B-1185 ETED
		M. Herrera						16.6 E 6222		12/19/20		12/21/	
DRILL		<b>Burnett-Gregg Drilling</b>	D	RILL	MAKE AND	море <b>МЕ-8</b>		HOLE DIAM	nches	HAMMER SE	-RIAL NUMB <b>165952</b>	ER	TOTAL DEPTH 148.9
GROU		EL. DEPTH/EL. GROUND WAT	ER SITI	E:	<u> </u>	14115-0	130		nenes	<u> </u>	103/32		140.7
2	<b>26.</b>	.8 💆 /				Г		Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	ro, GA
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" - <del>7</del> 2nd 6" O 3rd 6" _1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC  (* = field c laboratory t of sample b	DN AND Cl lassification adju- esting data and/or y field geologist/or	sted based on	ION	CHARA DRILLII	R LEVELS, ACTER OF NG AND ATORY
CC	$\downarrow \downarrow$	20 40 60 80	2-4-5	14	226.8	_	C: 1H1	CAND with a	:14 (CD CM	Description (7.6	SVD	Top of	Domess all
SS 1 SS 2 SS 3 SS 4 SS		<b>△</b> O+72+	3-2-3 7-6-10 11-11-11 8-12-14	18 16 15	223.3 <sub>_</sub> 221.3 <sub>_</sub>	5 — - - 5 —		SAND, with s 4/3), damp, loo SAA except by  SAND, silty (5 6/8), damp, morounded SAND, clayey 5/8) and yelloo dense, medium SAA	SM)- Reddedium dens 	lish yellow (5 ee, fine graine llowish red (5 /8), damp, m	5YR ed,	Group a 0.0 feet	Barnwell it a depth of
5 SS 6 SS 7	X	048+	8-10-12 5-7-10	14	213.8_	10-		SAA  CLAY, sandy and brownish	———— (CL)- Yelyellow (10	 llowish red (: YR 6/8), ver	 5YR 5/8) y stiff,		
SS 8	X	<b>A</b>	2-4-8	17	209.8_	20-		CLAY (CL)-yellow (2.5Y)	Yellowish 7/6), damp,	red (5YR 5/8 stiff, mediu	 8) and n		
SS 9	X	<b>A</b>	2-3-4	21	199.8_	25-		SAA except pa (10YR 7/8) wi 5/8), medium	th traces of	(5Y 7/3) and f yellowish re	yellow ed (5YR		
SS 10	X	<b>A</b>	2-3-3	23	194.8_	30-		CLAY, sandy 6/6), pale yello (5YR 5/8), dar plasticity	(CL)- Brow (5Y 8/3 mp, mediur	ownish yellov ), and yellow n stiff, mediu	w (10YR vish red um		
SS 11	X	▲ □ ⊕+	3-4-5	16		35-		SAND, clayey damp, loose, n	' <b>(SC)-</b> Yel nedium gra	llow (10YR 7 ined, rounde	7/8), d		
SS 12	X	<b>A</b>	2-2-1	10		40-		SAA except pa	ale yellow	(5Y 8/3), ver	y loose		
SS 13	X	<b>A</b>	3-3-5	14		45-		SAA except yo rounded	ellow (10Y	R 7/6), wet,	loose, sub		
SS	X.	A TAVIOR	4-3-5	16	SITE	-		SAA except pa				HOLE NO	<u> </u>
		ED BY: A. TAYLOR ED BY: P. DEPREE			0.12	166 of	_	e Units 3 & 4 Co Final Log					-1185



GE	EOTECHNICAL LOG	<u>•</u>	OJEC Ogtl		3 & 4	· C(	JOB NO. SHEET N OL Project 6141-06-0286 2 c	O. <b>3</b>	HOLE NO. <b>B-1185</b>
SAMP. TYPE AND NO.	A N-VALUE (SPT)  O WATER CONTENT %  + ATT. LIMITS %  FINES %  20 40 60 80	2nd 6" O	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	WATI CHAI DRIL	ES ON: ER LEVELS, RACTER OF LING AND DRATORY ING
14	20 40 00 00				_				
SS 15	<b>X</b>	50/5"	1.5	173.3_	55—		*CLAY (CL) - Pale yellow (2.5Y 8/4), wet, hard, contains shell fragments, +HCL	Top of Limes of 53.	of Utley stone at a depth 5 feet
SS 16	<b>A</b>	33-50/4"	6	1640	60-		SAA		
SS 17		8-40-30	11	164.8_	65—		*SAND, clayey (SC)- Pale yellow (5Y 8/3), damp, very dense, fine grained, contains shell fragments, +HCL	Loss a dep	of circulation at th of 62.0 feet
SS 18		40-50/4"	15	154.8	70-		SAA except (2.5Y 8/4)	Water end o	r level depth at f 12/19/2006 = nd surface
SS 19		10-12-16	27	13 1.0_	75—		SAND, with silt (SP-SM)- Pale yellow (2.5Y 8/2), wet, medium dense, fine grained, rounded -HCL		r level depth at ning of /2006 = 26 feet
SS 20	_	50/2"	1.5		80-		SAA except pale yellow (2.5Y 7/3), very dense		
SS 21		8-15-20	27	143.8_	85—		*CLAY (CL)- Greenish gray (GLEY1 5/1), dry, hard, contains shell fragments, +HCL	Top of Marl 83.0 f	of Blue Bluff at a depth of feet
SS 22		15-18-38	20		90-		SAA		
SS 23	X •	13-50/5"	21		95—		SAA except low plasticity		
SS 24		37-18-39	27		100-		SAA	Water end o	r level depth at f 12/20/2006 = et
SS 25	× •	50/5"	6		105—		SAA	Instal	led 4" steel g to a depth of
				SITE		ogtl	e Units 3 & 4 COL Project Final Log	HOLE	



GE		TECHNICAL LO	~	OJE		3 Rr 1			ET NO.	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (*= field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	20 40 60 80	8-15-50/5"	27		110-		SAA except greenish grey (GLEY1 5/1), da medium plasticity	mp,	105.0 feet Water level depth at beginning of 12/21/2006 = 63 feet
SS 27	X		33-50/5"	18		- - 115-		SAA		
SS 28	X	<b>A</b>	14-16-30	27		120-		SAA		
SS 29	X	<b>A</b>	13-18-34	27		125-		SAA except dry, contains shell fragments		
SS 30	X	<b>A</b>	10-26-30	27		130-		SAA		
SS 31	X	<b>A</b>	8-8-22	27		135-		SAA except damp, very stiff		
SS 32	X		12-16-50/6"	27		140-		SAA except (GLEY1 7/1)		
SS 33	X		11-50/6"	15	83.8_	- - 145—		SAND, clayey (SC)- Very dark greenish gr (GLEY1 3/1), damp, very dense, medium grained, rounded, -HCL	ay	Top of Still Branch Formation at a depth of 143 feet
SS 34	×		50/5"	1	77.9_	-		¬SAA Boring terminated at148.92 feet		
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-1185</b>



GI	=O	TECHNICAL		DJEC		•			JOB NO.		SHEET NO		HOLE NO.
LOGG			V U		e Units	3 & 4	· C(	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	4 COMPL	B-1186
LOGG	ED B	B. Mabie		JUKI		N 114	<b>47</b> ]	11.9 E 61881	18.9	1/24/200	7	1/26/	
DRILL	ER			RILL	MAKE AND	MODE	L	HOLE DIAME	TER	HAMMER SE	RIAL NUMB		TOTAL DEPTH
CDOL	ND F	White-MACTE			C	ME-	55	3 Ir	iches		331145		178.8
GROU 2	77.5	$\nabla$ $I$	ND WATER SITE					Vogtle Electr	ic Gene	rating Pla	ant - Wa	vnesbo	oro, GA
		- ,						8		8		<u> </u>	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT  + ATT. LIMITS %  □ FINES %  120 40 60	1st 6" 25 A G G G G G G G G G G G G G G G G G G	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIOI  (* = field cla laboratory tes of sample by	ssification adjus		ON	CHARA DRILLII	R LEVELS, ACTER OF NG AND AATORY
SS 1 SS		D 20 40 60	2-1-1	18 18	211.5	- -		SAND, with sil (10YR 6/6), dan nonplastic, -HC SAA	t (SP-SM mp, very le L	)Brownish yo oose, fine gra	ellow ined,	Top of Group a 0.0 feet	Barnwell at a depth of
2 SS 3		O	2-2-2	14	272.0_	5-		SAA except fin	e to mediu	ım grained			
SS 4		<b>▲</b>	5-7-13	17		-		SAND, clayey 6/8), moist, med nonplastic to lo	w plasticit	y, -HCL			
SS 5 SS		<b>A</b>	6-10-13	18		10-		SAA red (10R A	d			casing t	d 3" steel to a depth of
6	X					-		SAA red (10R 4 plasticity, fine g	grained	um dense, 10	w	feet	evel depth at $1/24/07 = 0.81$
SS 7	X	▲	6-7-10	12	260.5_	15-		SAA except da	rk red (101	R 3/6)		Water lebeginni = 0.83 f	evel depth at ng of 1/25/07 feet
SS 8	X	<b>A</b>	5-7-8	15	255.5_	20-		CLAY, silty, sa 5/4), moist, stiff SAND, -HCL	andy (CL- f, low plas	-ML)- Weak sticity, fine gr	red (10R rained		
SS 9	X	<b>A</b>	5-6-7	12	250.5_	25—		CLAY, silty wi 5/6), moist, stift SAND, -HCL	ith sand ( f, low plas	CL-ML)- Resticity, fine gr	d (10R rained		
SS 10	X	<b>A</b>	5-6-7	12		30-		CLAY, silty, sa moist, stiff, low -HCL	andy (CL- plasticity	-ML)- Red (I	10R 5/6), 1 SAND,		
SS 11	X	<b>A</b>	5-6-7	12	240.5	35-		SAA except red	ldish yello	ow (7.5YR 6/	6)		
SS 12	X	<b>▲</b> □	5-9-7	12	235.5_	40-		SAND, silty, cl (5YR 5/6), moi: nonplastic to lo	st, mediun	n dense, fine	vish red grained,		
SS 13	X	<b>A</b>	5-7-8	9		45-		SAND, silty (S moist, medium -HCL	<b>M)</b> - Yello dense, fin	owish red (5Ye grained, no	TR 5/6), nplastic,		
SS	$\bigvee$	<b>A</b>	6-10-11	8		-		SAA except red	ldish yello	w (7.5YR 6/	8), wet		
	VV ARED	BY: A. TAYLOR	:		SITE	V	ogtl	e Units 3 & 4 CO			•	HOLE NO	
REVIE	WED	BY: P. DEPREE				400-4		В	-1186				



GE	Ξ	OTECHNICAL LO		OJE(		3 & 4	COL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO 2 OF		HOLE NO. <b>B-1186</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" 05 3rd 6" x	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT		ION AND CLASSIFICAT d classification adjusted based on y testing data and/or re-examination e by field geologist/engineer)	TION	CHARA DRILLI	R LEVELS, ACTER OF NG AND ACTORY
14					225.5_	_					
SS 15	X	<b>A</b>	7-9-15	9		55	SAND, with wet, medium nonplastic, -	silt (SP-SM)- Red (2.5Y) dense, fine to medium g	'R 5/6), rained,		
SS 16	X	<b>A</b>	9-10-14	10		60-	SAA except	red (10R 4/6), fine graine	ed		
SS 17	X	<b>A</b>	11-16-15	9		65	SAA except fine to medi	strong brown (7.5YR 5/8 um grained	), dense,		
SS 18	X	<b>A</b>	3-4-4	15	210.5_	70-	SAND, silty yellow (7.5) low plasticit	, clayey (SC-SM)- Reddi 'R 6/8), wet, loose, fine g y, -HCL	sh grained,		
SS 19	X	<b>A</b>	3-3-5	18	205.5_	75 —	CLAY, silty (GLEY1 8/5 plasticity, -F	(CL-ML)- Light greening GY), wet, medium stiff, l	sh gray ow		
SS 20	X	<b>A</b>	6-20-32	18		80-	CLAY, silty gray (GLEY fine grained +HCL	, sandy (CL-ML)- Light 1 8/5GY), wet, hard, low SAND, contains shell fra	greenish plasticity, gments,		
SS 21	X	<b>A</b>	13-6-7	18	195.5_	85-	CLAY, silty (GLEY1 8/5 contains she	(CL-ML)- Light greening GY), moist, stiff, low pla	sh gray sticity,		
SS 22	X	<b>A</b>	1-3-4	18	190.5_	90-	CLAY (CL) 8/10Y), wet, contains she	- Light greenish gray (G medium stiff, low plastic ll hash, +HCL	LEY1 city,		
SS 23	X	<b>A</b>	8-12-10	18	185.5_	95—	CLAY, silty (GLEY 1 6/1 plasticity, ec	(CL-ML)- Greenish gra OGY), moist, very stiff, lenting shell fragments, +	y ow HCL		
SS 24	X	<b>A</b>	8-10-19	18	180.5_	100-	CLAY (CL) moist, very s	- Greenigh gray (GLEY tiff, low plasticity, +HCI	 1_5/5G),		
SS 25	X	•	7-13-31	18		105—	SAA except medium plas	olive gray (5Y 5/2), hard ticity, contains shell frag	, low to ments		
					170.5_	1	ortle Units 2.0.4	COI Dugiant		HOLE NO	<u> </u>
						Vogite Chits 5 & 4 COL 110 jeet					-1186



GE	ΕΟ	TECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	C C	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" - z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	,	10-50/5"	10	165.5	110-		CLAY, silty, sandy (CL-ML)- Light gray (2.5Y 7/2), moist, hard, low plasticity, contains shell hash, +HCL	
SS 27	X	<b>A</b>	6-7-9	18		- - 115—		CLAY, silty (CL-ML)- Light yellowish brown (2.5Y 6/3), moist, very stiff, low plasticity, contains shell fragments, +HCL	
SS 28	X	<b>A</b>	17-14-15	18	160.5_	120-		CLAY, silty, sandy (CL-ML)- Pale yellow (2.5Y 7/3), moist, very stiff, low plasticity, contains shell hash, +HCL	
SS 29	X	<b>A</b>	5-6-14	18	155.5_	125-		CLAY, silty with sand (CL-ML)- Pale yellow (2.5Y 7/3), moist, low plasticity, contains shell fragments, +HCL	
SS 30	X	<b>A</b>	6-7-11	18	150.5_	130-		SAND, silty (SM) - Pale yellow (2.5Y 7/3), wet, medium dense, fine grained, nonplastic to low plasticity, contains shell fragments, +HCL	
SS 31	X	<b>A</b>	23-16-15	18	145.5_	135—		CLAY, silty, sandy (CL-ML)- Pale yellow (2.5Y 7/3), wet, hard, low plasticity, contains shell hash, +HCL	
SS 32	X	<b>A</b>	11-21-14	18		140-		SAA	
SS 33	×		50/5"	4	135.5_	145—		SAND, with silt (SP-SM)- Greenish gray (GLEY1 6/10GY), moist, very dense, fine grained, nonplastic, contains shell fragments, +HCL	
SS 34	X	•	9-12-11	18	130.5_	- - 150—		CLAY (CL) Greenish gray (GLEY1 5/10GY), moist, very stiff, low to medium plasticity, contains shell fragments, +HCL	Water level depth at end of 1/25/07 =
SS 35	X	<b>A</b>	7-19-18	18	125.5_	- - 155—		CLAY, silty, sandy (CL-ML)- Greenish gray (GLEY1 6/10GY), wet, hard, low plasticity, contains shell fragments, +HCL	48.65 feet  Water level depth at beginning of 1/26/07 = 51.62 feet
SS 36	X	<b>A</b>	9-14-6	18	120.5_	160-		SAND, with silty clay (SP-SC)- Light greenish gray (GLEY1 7/1GY), wet, medium dense, fine to medium grained, nonplastic to low plasticity, contains shell hash, +HCL	
SS	X	<b>A</b>	10-11-17	18	115.5_ SITE	- - - V	ogtl	CLAY, silty with sand (CL-ML)- Greenish e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1186</b>



GF	:O	TECHNICAL LO		OJEC		2.0.4	-		JOB NO.	SHEET NO		HOLE NO.
				ogtl	e Units	3 & 4	CO	OL Project	6141-06-0286	<b>4</b> OF	4	B-1186
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" ±	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field cl laboratory te of sample by	ON AND CLASSIFICAT lassification adjusted based on esting data and/or re-examination y field geologist/engineer)	ION	CHAR/ DRILLI	R LEVELS, ACTER OF NG AND RATORY
37	X	20 10 00 00			110.5_	165-		gray (GLEY1 : some shell frag	5/5G), wet, very stiff, c gments, low plasticity,	ontains +HCL		
SS 38	X	<b>A</b>	19-39-29	10	105.5_	170—		SAND, silty, c (2.5Y 8/2), wel grained, nonpla	clayey (SC-SM)- Pale y t, very dense, fine to me astic to low plasticity, +	rellow edium -HCL		
SS 39	_		50/1"	0	100.5_	175—		NO RECOVE	ERY			
SS 40	×		50/3"	2	98.8_	-		CLAY, silty ( (GLEY1 7/5G) plasticity, cont cemented sand Boring termina	CL-ML)- Light greenis Y), wet, hard, nonplasti ains shell fragments, ha I grains, +HCL ated at 178.75 feet	sh gray c to low ash, and		
					SITE	V 172 of		e Units 3 & 4 CC Final Log			HOLE N	o. S-1186



GF	=(	OTECHNICAL LO	<u> </u>	OJEC		2.0.4	-	21 D	JOB NO.	26.0206	SHEET NO		HOLE NO.
LOGG			•		DINATES	3 & 4	C	OL Project	6141-0	06-0286 BEGUN	1 OF	COMPL	B-1187 LETED
		D. Atkinson						10.2 E 6192	59.6	1/29/200	)7	1/30/	
DRILL	ER		D	RILL	MAKE AND			HOLE DIAM		HAMMER SE		ER	TOTAL DEPTH
GROU	ND	White-MACTEC  DEL. DEPTH/EL. GROUND WATE	ER SITI	=-	C	CME-5	55_	31	nches		331145		150.0
	77.	$\nabla$ /						Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	oro, GA
, PE	ш	▲ N-VALUE (SPT)	N-COUNT	Y (in	NO F	FI	S					NOTES	
Ϋ́	SAMPLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ÆR	ATI(	¥ H	GRAPHICS	DESCRIPTIO	N AND CL	_ASSIFICAT	ION	CHARA	R LEVELS, ACTER OF
SAMP. TYPE AND NO.	SA	+ ATT. LIMITS %		RECOVERY (in)	ELEVATION IN FEET	DEPTH IN	GRA	( * = field c laboratory to of sample b	lassification adjust esting data and/or y field geologist/o	sted based on r re-examination engineer)			NG AND RATORY
()		☐ FINES %		8				,	,	, , , , , , , , , , , , , , , , , , ,		TESTIN	NG
SS	₩.	20 40 60 80	2-2-2	13	277.7			SAND, with s	ilt (SP-SM	)- Pale brow	n (10YR	Top of	Barnwell
1 SS	₩.	<b>A</b>	2-2-2	18	276.2_	]		1/3), dry, very SAND, clayey 5/6), damp, ve	loose, fine (CL)- Str	grained ong brown (7	7.5YR	Group a 0.0 feet	at a depth of
SS 2 SS 3	$\parallel$	<b>A</b>	2-2-6	10				plasticity					
3	Å					5-		SAA except ye	enowish re	u (5 1 K 5/8),	loose		
SS 4	X	<b>A</b>	12-19-26	18		-		SAA except re	d (2.5YR 4	1/8), dense			
SS	M	<b>A</b>	9-13-16	14				SAA exept me	dium dens	e			
5 SS		<b>A</b>	6-10-15	15		10		SAA				Installe casing t	d 4" steel to a depth of
6	A		0 10 15	15	264.7_	-		5AA 				10.0 fee	et
SS 7	M	<b>A</b>	7-10-14	14		-		SAND, with c	lay (SP-SC	C)- Red (2.5)	YR 5/8),		
/						15-		to low plasticit	y	e grameu, ne	призис		
						<u>-</u>							
SS 8	M	<b>^</b>	5-7-8	14		20-		SAA except w	et				
O					255.7	20-							
					255.7_	†							
SS 9	X	<b>^</b>	5-7-7	15		-		<b>SAND, with s</b> i (7.5YR 7/8), w	ilt (SP-SM	)- Reddish y	ellow grained		
7						25-		(7.5 110 770), 11	ct, illearan	ir dense, ime	gramea		
					250.7_	1							
SS 10	M	<b>A</b>	5-7-7	17		-		SAND, with c (5YR 5/8), we	lay (SP-SC	C)- Yellowish	n red		
10	П					30-		(31K 3/8), we	i, illediulli	dense, fine g	iameu		
					245.7_	+							
SS	M	<b>A</b>	5-6-6	14		1		SAND, with s	ilt (SP-SM	)- Reddish y	ellow ,		
11	H					35-		(7.5YŘ 7/8), w	et, mediun	n dense, fine	grained		
						]							
SS	$\mathbb{H}$	<b>A</b>	5-6-6	16		-		SAA except da	ark red (10)	R 3/6)			
SS 12	A					40-			(-0.	•			
SS	$\mathbb{H}$	<b>A</b>	6-9-10	14		_		SAA except re	d (10R 4/8	)			
SS 13	A					45-		S. I. I Choopi Ic	(101c 1/0	,			
SS	$\mathbb{H}$	<b>A</b>	4-6-8	13				SAA					
	NBE	ED BY: A. TAYLOR			SITE	V	ogtl	e Units 3 & 4 Co	OL Projec	<u> </u>		HOLE NO	<b>O</b> .
		ED BY: P. DEPREE						Final Log					-1187
						173 of	724						



GI		OTECHNICAL LO	$\square$	OJEC				JOB NO. SHEET NO		HOLE NO.
Gi	_	TECHNICAL LO	G V	ogtl	e Units	3 & 4	C	DL Project   6141-06-0286   2 OF	3	B-1187
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" 1x	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		LEVELS, CTER OF IG AND ATORY
14						-				
SS 15	X	<b>A</b>	7-9-11	10	220.7_	- 55—		SAA except red (10R 5/8), fine to medium grained, -HCL		
SS 16	X	<b>A</b>	9-12-13	17		60-		SAND (SP) - Yellow (10YR 7/8), wet, medium dense, fine grained, -HCL		
SS 17	X	<b>A</b>	6-10-12	13	210.7	65-		SAA except yellow (10YR 7/6)		
SS 18	X	<b>A</b>	3-4-7	10	210.7_	70-		CLAY (CL) - Yellow (10YR 7/6), wet, stiff, contains 2" fine to medium grained SAND lense at bottom of spoon, -HCL		
SS 19	X	<b>A</b>	1-2-3	18	200.7_	- - 75—		SAA except very pale brown (10YR 8/4), medium stiff, no lense		
SS 20	X	<b>A</b>	1-3-3	16	196.2_	80-		SAND, with clay (SP-SC)- Very pale brown (10YR 8/3), wet, loose, fine grained, nonplastic to low plasticity, -HCL		
SS 21	X	<b>A</b>	3-4-5	18		- 85 <del>-</del>		CLAY, silty (CL-ML)- Light greenish gray (GLEY1 8/10Y), wet, stiff, medium plasticity, trace fine SAND, +HCL		
SS 22	X		8-12-50/4"	16	185.7	- - 90-		SAA except hard, medium to high plasticity, contains shell fragments <1/8"		
SS 23	X	<b>A</b>	3-5-13	18	180.7	- - 95—		SAND, with silt (SP-SM)- Light greenish gray (GLEY1 8/10Y), wet, medium dense, very fine grained, nonplastic, +HCL		
SS 24	X	<b>A</b>	8-11-12	18	175.7	100-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 6/10GY), wet, very stiff, medium to high plasticity, trace very fine SAND, +HCL		
SS 25	$\boxtimes$		19-50/2"	8		105-		CLAY, with sand (CH)- Pale yellow (2.5Y 8/1), wet, hard, medium to high plasticity, very fine SAND, +HCL		
		<u>                                     </u>			170.7_ SITE	V	ogtl	e Units 3 & 4 COL Project	HOLE NO	1187
						<del>174 of</del>		Final Log	р.	110/



GE	C	OTECHNICAL LO	<u> </u>	OJE(		3 & 4	C	JOB NO. SHEET N OL Project 6141-06-0286 3 o					
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" x	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING				
SS 26	×		21-50/1"	4		110-		SAND, silty (SM)- Olive yellow (2.5Y 6/6), wet, very dense, fine to medium grained, contains shell fragments, +HCL	Water level depth at end of 1/29/07 = Top of Casing				
SS 27	X	<b>A</b>	12-9-8	15	160.7	115-		SAA except medium dense, fine grained	Water level depth at beginning of 1/30/07 = 55.6 feet				
SS 28	X	<b>A</b>	25-15-31	18	155.7	120-		SAND, with silt (SP-SM)- Pale yellow (2.5Y 8/4), wet, dense, fine grained, contains shell fragments <1/8" in diameter, +HCL					
SS 29	X	<b>A</b>	6-13-17	15	150.7	125-		SAND, with clay (SP-SC)- Pale yellow (2.5Y 7/4), wet, dense, fine grained, contains shell fragments <1/16" in diameter, +HCL					
SS 30	X	A	8-23-35	13	145.7	130-		SAND (SP) - Pale yellow (2.5Y 8/2), wet, very dense, fine grained, contains trace shell fragments <1/16" in diameter, +HCL					
SS 31	X	<b>A</b>	15-18-17	16	140.7_	135-		SAND, silty (SM)- Pale yellow (2.5Y 8/3), dense, fine grained, contains shell fragments < 1/2" in diameter and 2" shell hash lens at bottom, +HCL					
SS 32	X	<b>A</b>	15-13-9	16		140-		SAND, with clay (SP-SC)- Pale yellow (2.5Y 8/4), wet, medium dense, fine grained, nonplastic to low plasticity, contains shell fragments <1/4" in diameter, +HCL					
SS 33	X	<b>A</b>	5-7-7	10	130.7_	145—		SAA except fine to medium grained, low plasticity, no shells					
SS 34	X	<b>A</b>	7-12-25	18	127.7_	150-		SAND, clayey (SC)- Pale yellow (2.5Y 7/4), wet, dense, fine to medium grained, low to medium plasticity, contains trace shell fragments, +HCL Boring terminated at 150 feet					
	SITE Vogtle Units 3 & 4 COL Project HOLE NO. Final Log B-1												



GE	OT	ECHNICAL LO	C	OJEC		•	. ~.		JOB NO.	26.006	SHEET NO		HOLE NO.
LOGGE		LOTHIOAL LO	•		e Units	3 & 4	CO	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	3 COMPL	B-1189
LOGGL	וט ט.	D. Atkinson		OOK		N 114	1445	59.7 E 6189	97.5	1/30/200	)7	1/31/	
DRILLE	R	2 ( 1 ( ) ( ) ( )	D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
		White-MACTEC			C	CME-	55	3 1	nches		331145		150.0
GROUN 28	10 EL. 80.0	DEPTH/EL. GROUND WAT	TER SITI	E:				Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	oro, GA
		- /						8				<u> </u>	
SAMP. TYPE AND NO.	SAMPLE + O	N-VALUE (SPT) WATER CONTENT % ATT. LIMITS % FINES %	1st 6" -z 2nd 6" 00 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC  (* = field c laboratory t of sample b	DN AND Cl classification adju- esting data and/or y field geologist/or	sted based on	TION	CHARA DRILLI	R LEVELS, ACTER OF NG AND AATORY
SS	<b>A</b>	20 40 60 80	2-2-2	13	280.0	_		*SAND, with	silt (SP-SI	M)- Yellowis	sh brown	Top of	Barnwell
1 1			2-1-2	16		-		*SAND, with (10YR 5/8), da SAA except by	amp, very l rownish ye	oóse, fine gr llow (10YR (	ained 6/8)	Group a 0.0 feet	at a depth of
SS 2 SS 3			1-2-2	12		- - 5-		SAA					
SS 4			2-3-3	14	274.0_	-		*SAND (SP)- to medium gra	Yellow (1	0YR 7/6), To	ose, fine		
SS 5			2-4-8	8	269.5_	10-		SAA except your medium dense	ellowish br , fine grain	own (10YR :	5/8),		
SS 6	X		7-10-11	10	203.6_	-		*SAND, claye moist, medium	ey (SC)- Ro n dense, fin	ed (2.5YR 5/ e grained	8),		
SS 7	X	+▲ +	8-12-18	10		15-		SAA except re	ed (2.5YR 4	4/8)		Installa	d 3" steel
SS 8	X	<b>≜</b> ++	6-8-13	14		20-		SAA				casing t	o a depth of et
SS 9		<b>A</b>	5-7-9	15	253.0_	25-		SAA					
SS 10	<u> </u>	<b>A</b> 🗆	4-7-9	13	240.0	30-		*SAND, silty moist, medium	(SM)- Dar n dense, fin	k red (2.5YR e grained	2 3/6),		
SS 11		`	4-6-7	9	248.0 <sub>_</sub> 243.0	35-		SAND, with c moist, medium to low plasticit	elay (SP-SO n dense, fin ty	C)- Red (10Re grained, no	4/8), onplastic		
SS 12	4	<b>\</b> +G-+	5-7-8	12	238.0	40-		*SAND, claye (7.5YR 6/8), n grained, low p	ey (SC)- Renoist, medi lasticity	eddish yellov um dense, fii	v ne		
SS 13	<b>A</b>		5-6-6	10		45 —		<b>SAND, with s</b> (7.5YR 6/8), v	ilt (SP-SM vet, mediur	D- Reddish yn dense, fine	ellow grained		
SS		<b>A</b>	5-9-10	9		-		SAA except re	eddish yello	ow (7.5YR 7/	·		
		/: A. TAYLOR /: P. DEPREE			SITE		_	e Units 3 & 4 Co Final Log		t		HOLE NO	-11 <b>89</b>
						176 of	724		<del></del>				



GE	OTECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 OF		HOLE NO. <b>B-1189</b>
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" - z	RECOVERY (in)	ELEVATION IN FEET	_	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING	
14 SS 15		7-9-12	9		55—		SAA except strong brown (7.5YR 5/6)		
SS 16	<b>A</b>	8-12-17	12		60-		SAA except red (2.5YR 5/6)	l end of	level depth at 1/30/07 = Top
SS 17	<b>A</b>	8-12-14	13		65		SAA except red (10R 7/8)	of casi Water beginn = 39.0	level depth at ling of 1/31/07 feet
SS 18	<b>A</b>	5-7-7	6	208.0	70-		SAA except brownish yellow (10YR 6/8)		
SS 19	<b>A</b>	2-2-3	10	203.0_	75		SAND, with clay (SP-SC)- Brownish yellow (10YR 6/8), wet, loose, fine grained, -HCL		
SS 20 2	•	2-4-5	18		80		SAND, clayey (SC)- Very pale yellow (10YR 8/4), wet, loose, fine grained, nonplastic to low plasticity, -HCL		
SS 21 2	<b>^</b>	1-3-1	12		85		SAA except pale yellow (2.5Y 7/3), very loose, low to medium plasticity		
SS 5	<b>A</b>	4-5-7	18	188.0_	90-		SAA except light greenish gray (GLEY1 8/10Y), medium dense, very fine to fine grained, +HCL		
SS 23	<b>A</b>	3-4-5	18	183.0_	95-		CLAY, silty (CL-ML)- Light greenish gray (GLEY1 8/10Y), wet, stiff, medium to high plasticity, +HCL		
SS 24	<b>A</b>	6-8-13	18	178.0_	100-		CLAY, with sand (CL)- Light greenish gray (GLEY1 8/10Y), wet, very stiff, low to medium plasticity, very fine SAND, +HCL		
SS 25		8-10-12	18	173.0_	105		CLAY, silty with sand (CL-ML)- Greenish gray (GLEY2 5/5BG), wet, very stiff, medium to high plasticity, very fine grained SAND, +HCL		
				SITE	Vo	_	e Units 3 & 4 COL Project Final Log	HOLE N	NO. <b>B-1189</b>



GE	Ξ	OTECHNICAL LO	<u>-</u>	OJE( ogtl		3 & 4	l C(	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 0					
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" C 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING				
SS 26	X	<b>A</b>	9-14-15	16	168.0	110-		CLAY, with sand (CL)- Pale yellow (2.5Y 8/3), wet, very stiff, medium plasticity, fine grained SAND, contains shell fragments <1/8" in diameter, +HCL					
SS 27	X	<b>A</b>	10-7-8	16	163.0	115-		SAND, with clay (SP-SC)- Yellow (2.5Y 8/6), wet, medium dense, fine grained, nonplastic to low plasticity, +HCL					
SS 28	X	<b>A</b>	11-15-19	13	158.0_	120-		CLAY, sandy (CL)- Pale yellow (2.5Y 8/3), wet, hard, low plasticity, fine grained SAND, contains shell fragments <1/4" in diameter, +HCL					
SS 29	X	<b>A</b>	12-19-23	12	153.0_	125-		SAND, clayey (SC)- Pale yellow (2.5Y 8/4), wet, hard, fine grained, +HCL					
SS 30	X	<b>A</b>	13-13-12	11	148.0_	130-		SAND (SP) - Yellow (2.5Y 8/6), wet, medium dense, fine to medium grained, -HCL					
SS 31	X	<b>A</b>	18-29-31	18		135-		SAND, clayey (SC)- Pale yellow (2.5Y 8/2), wet, very dense, fine grained, contains abundant shell hash, +HCL					
SS 32	X		17-18-24	13	138.0_	140-		SAA except pale yellow (2.5Y 8/3), low to medium plasticity, contains shell fragments <1/8", +HCL					
SS 33	X	<b>A</b>	14-9-13	16		145-		SAND, with silt (SP-SM)- Pale yellow (2.5Y 7/3), wet, medium dense, fine to medium grained, contains shell fragments, +HCL					
SS 34	X	<b>A</b>	50-15-14	12	130.0_	150-		SAA except very pale brown (10YR 8/3)  Boring terminated at 150 feet					
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1189</b>				



COORDINATES   BEGUN   COMPLETED	GE	ΞC	TECHNICAL LO	<u> </u>	OJE(		2 0- 1		OI Duoinat	JOB NO.	0.000	SHEET NO.		HOLE NO.
Second   Company   Compa				<b>V</b>			3 & 4	·CC	JL Project	0141-0		I OF		<b>B-1191</b> ETED
DRILL   Banks-MACTEC							N 114	143(	01.6 E 6194	190.8	2/5/200	7		
Note	DRILL	ER	**	D	RILL	MAKE AND	O MODE	EL						TOTAL DEPTH
A N-VALUE (SPT)						C	ME-5	550	3 1	nches		337153		150.0
A N-VALUE (SPT)			EL. DEPTH/EL. GROUND WAT $ \begin{array}{ccc} & & & & & & & & \\ & & & & & & \\ 3 & & & & & & \\ \end{array} $	ER SITI	E:				Vogtle Elect	ric Gene	erating Pla	ant - Wa	vnesbo	oro, GA
20 40 60 80														
20 40 60 80	뿐 .		▲ N-VALUE (SPT)	N-COUNT	(ji	Ζ.	ե	က္						
20 40 60 80	₹9	F	O WATER CONTENT %	t 6" ıd 6" d 6"	  Y	ATIC EET	르	呈	DECODIDEIO	NI AND CI	ACCIFICAT	ION		
20 40 60 80	M. M.	SAM	+ ATT. LIMITS %	1s 2r 3r	S S	N EV	ΡĦ	RAP	( * = field c	lassification adjus	sted based on	ION	DRILLI	NG AND
20 40 60 80   1-1-1   15   258.8   3   3-7-13   16   258.8   3   3-7-13   16   3-7-13   17   3-7-13   17   3-7-13   17   3-7-13   17   3-7-13	δ,				RE	Щ_		ര	of sample b	y field geologist/	engineer)			
SAND, clayer (SC) - Brown (10x R4/s), dry, moduling debts, tine grained, low plasticity  SAA except red (2.5YR 4/8)  SAA  SAA  SAA  SAA  SAA  SAA  SAA  S		Ц				260.3								
SAND, clayer (SC) - Brown (10x R4/s), dry, moduling debts, tine grained, low plasticity  SAA except red (2.5YR 4/8)  SAA  SAA  SAA  SAA  SAA  SAA  SAA  S	1 1	M				258.8_	_		SAND, with s 4/3), damp, ve	<b>ilt (SP-SM</b> ry loose, fi	)- Brown (10 ne grained, n	OYR onplastic	Top of I Group a	Barnwell at a depth of
SS	SS	M		3-7-13	16		-		SAND, clayey medium dense	(SC) - Bro	own (10YR 4 ed. low plast	/3), dry,	0.0 feet	-
SAA   SAA	SS	M	<b>A</b>	6-9-13	16		-							
SAA   SAA	3	H					5-							
SAA   SAA		$\mathbb{X}$		6-11-12	15		_		SAA					
SAA   SAA			<b>A</b>	7-10-12	15		-		CAA					
Total   Section   Sectio	5	Д		, 10 12			10-		SAA					
SAA   SAA	SS	$\forall$	<b>A</b>	7-12-17	11		-		SAA					
15	6	H					_							
SAA except reddish yellow (7.5YR 6/8), damp, contains CLAY seams	SS	X		7-9-12	13		-		SAA					
SS	′	П					15-							
SS							-							
SS	SS	$\mathbb{H}$	<b>A</b>	4-8-10	13		-		SAA except re	ddish vella	ow (7 5YR 6/	(8) damn		
SS	8	Å					20-		contains CLA	Y seams	, w (7.5 11c o	o), <b>u</b> ump,		
SS AA except red (10R 4/8), fine to medium grained, low plasticity  SAA except red (10R 4/8), fine to medium grained, low plasticity  SAA except yellowish red (5YR 5/8)  SAA except red (10R 5/8)  SAA except yellowish red (5YR 5/8)  SAA except red (10R 5/8)						238.3_	_							
SS AA except red (10R 4/8), fine to medium grained, low plasticity  SAA except red (10R 4/8), fine to medium grained, low plasticity  SAA except yellowish red (5YR 5/8)  SAA except red (10R 5/8)  SAA except yellowish red (5YR 5/8)  SAA except red (10R 5/8)			<b>A</b>				_							
SS	SS 9	M		5-5-8	11		25		SAND, with c	lay (SP-SC n dense, fin	C)- Red (2.5Y) e grained, no	(R 5/8), onplastic		
SS							23-		17	,	,	1		
SS							-							
SS SAA except red (10R 4/8), fine to medium grained, low plasticity  SAA except red (10R 4/8), fine to medium grained, low plasticity  SAA except red (10R 5/8)  Final Log  B-1191	SS	$\forall$	<b>A</b>	5-7-9	9		_		SAA					
SS 2 3-4-6 18 SAA except yellowish red (5YR 5/8)  SAA except red (10R 5/8)  SAA except red (10R 5/8)  SAA except red (10R 5/8)  CLAY, silty with sand (CL-ML)- Yellow (2.5Y 7/6), moist, stiff, medium plasticity.  PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SAA except red (10R 5/8)  SITE Vogtle Units 3 & 4 COL Project Final Log  HOLE NO.  B-1191	10	H					30-							
SS 2 3-4-6 18 SAA except yellowish red (5YR 5/8)  SAA except red (10R 5/8)  SAA except red (10R 5/8)  SAA except red (10R 5/8)  CLAY, silty with sand (CL-ML)- Yellow (2.5Y 7/6), moist, stiff, medium plasticity.  PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SAA except red (10R 5/8)  SITE Vogtle Units 3 & 4 COL Project Final Log  HOLE NO.  B-1191							_	1 1/3						
SS 2 3-4-6 18 SAA except yellowish red (5YR 5/8)  SAA except red (10R 5/8)  SAA except red (10R 5/8)  SAA except red (10R 5/8)  CLAY, silty with sand (CL-ML)- Yellow (2.5Y 7/6), moist, stiff, medium plasticity.  PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SAA except red (10R 5/8)  SITE Vogtle Units 3 & 4 COL Project Final Log  HOLE NO.  B-1191	CC		<b>A</b>	5-8-11	10		-		C A A	1 (10D 4/0	) E 4	1:		
SS A except red (10R 5/8)  SAA except red (10R 5/8)  SS A except red (10R 5/8)  SITE Vogtle Units 3 & 4 COL Project  Final Log  HOLE NO.  B-1191		Д		3-0-11	10		35-		grained, low p	lasticity	), time to med	uium		
SS A except red (10R 5/8)  SAA except red (10R 5/8)  SS A except red (10R 5/8)  SITE Vogtle Units 3 & 4 COL Project  Final Log  HOLE NO.  B-1191							-							
SS A except red (10R 5/8)  SAA except red (10R 5/8)  SS A except red (10R 5/8)  SITE Vogtle Units 3 & 4 COL Project  Final Log  HOLE NO.  B-1191							_							
SS A except red (10R 5/8)  SAA except red (10R 5/8)  SS A except red (10R 5/8)  SITE Vogtle Units 3 & 4 COL Project  Final Log  HOLE NO.  B-1191	SS	X	<b>^</b>	5-10-11	9		-	1 1	SAA except ye	ellowish re	d (5YR 5/8)			
SS A. TAYLOR  REVIEWED BY: P. DEPREE  213.3  213.3  213.3  45  CLAY, silty with sand (CL-ML)- Yellow (2.5Y 7/6), moist, stiff, medium plasticity,  Wogtle Units 3 & 4 COL Project  Final Log  B-1191	12	$\prod$					40-							
SS A. TAYLOR  REVIEWED BY: P. DEPREE  213.3  213.3  213.3  45  CLAY, silty with sand (CL-ML)- Yellow (2.5Y 7/6), moist, stiff, medium plasticity,  Wogtle Units 3 & 4 COL Project  Final Log  B-1191							_	1 1						
213.3  SS A 3-4-6 18  CLAY, silty with sand (CL-ML)- Yellow (2.5Y 7/6), moist, stiff, medium plasticity,  PREPARED BY: A. TAYLOR  REVIEWED BY: P. DEPREE  SITE Vogtle Units 3 & 4 COL Project  Final Log  HOLE NO.  B-1191	SS	$\mathbb{H}$	<b>A</b>	7-14-18	9		-		SAA except re	ed (10R-5/8	)			
SS A 3-4-6 18 CLAY, silty with sand (CL-ML)- Yellow (2.5Y 7/6), moist, stiff, medium plasticity,  PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE Final Log  B-1191	13	A					45-			(-012 0/0	,			
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE    March						213.3_	_							
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE    March							-							
REVIEWED BY: P. DEPREE  Final Log  B-1191	SS	M		3-4-6	18		-		(2.5Y 7/6), mo	oist, stiff, m	<u>iedium plasti</u>	city,		
						SITE	V	ogtl			t			
	KEVIE	vv⊏l	U D 1 . P . DEPKEE				179 of	<del>724</del>		<u> </u>			D	-1171



GE	OTECHNICAL LO	<u> </u>	OJEC notl		3 & 4	C	JOB NO. SHEET NO. OL Project 6141-06-0286 2 OF		HOLE NO. <b>B-1191</b>	
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING		
14	20 40 60 80				_		contains traces of phosphate grains, -HCL			
SS 15	•	3-5-6	16		55—		SAA except fine to medium grained SAND			
SS 16	•	3-3-5	18		60-		SAA except contains SAND seams			
SS 17	<b>A</b>	10-4-16	18		65—		SAA except pale yellow (2.5Y 7/4), damp, very stiff, low plasticity, contains trace shell fragments and phosphate grains, +HCL	Water le	evel depth at 1/5/07 = Top of	
SS X		4-4-6	18		70—		SAA except pale yellow (5Y 7/3), stiff	Water lebeginning 33.0 fee	evel depth at ng of 2/6/07 =	
SS 19	, •	29-12-17	18	183.3_	75 —		SAA			
SS 20	<b>A</b>	26-19-19	18	103.5_	80-		SILT (ML) - Greenish gray (GLEY1 5/10GY), dry, hard, contains CLAY, shell fragments, and phosphate grains, +HCL			
SS 21		7-9-12	18	173.3_	85—		SAA except very stiff			
SS ×		50/6"	9		90-		SAND, clayey (SC)- Pale yellow (5Y 8/4), moist, very dense, fine to coarse grained, contains abundant shell fragments and trace phosphate grains, +HCL			
SS 23	<b>A</b>	19-17-20	12	163.3_	95 —		SAA except pale yellow (2.5Y 7/6), dense, medium to coarse grained with cemented SAND			
SS 24	<b>A</b>	19-17-26	18		100-		SAND, with clay (SP-SC)- Pale yellow (2.5Y 8/3), moist, dense, fine to medium grained, contains trace shell fragments and phosphate grains, +HCL			
SS 25	•	19-37-34	17	153.3	105		SAA except contains abundant shell fragments			
		1		SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO	-1191	
					180 of	<del>-</del>	i mai ilvž	l D	11/1	



GE	GEOTECHNICAL LOG Vogtle Units 3 & 4 COL Project JOB NO. SHEET NO. 3 OF												
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" C 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  ( * = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING				
SS 26	X	<b>A</b>	10-9-13	18		110-		SAND, clayey (SC)- Pale yellow (5Y 8/3), moist, medium dense, fine to medium grained, low plasticity, contains traces of shell fragments and phosphate grains, +HCL					
SS 27	X	*	11-17-24	15		115-		SAA except dense					
SS 28	X	<b>A</b>	10-12-8	17	138.3_	120-		SAA except pale yellow (5Y 7/3), medium dense					
SS 29			50/1"	0	133.3_	125-		NO RECOVERY					
SS 30	X	•	7-9-14	18		130-		CLAY, silty with sand (CL-ML)- Greenish gray (GLEY1 5/10GY), moist, very stiff, contains traces of shell fragments and phosphate grains, +HCL					
SS 31	X	•	9-50/5"	15	123.3_	135-		SAA except light greenish gray (GLEY1 7/10GY), hard					
SS 32	X	<b>A</b>	21-14-14	18	118.3_	140-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/10GY), dry to damp, very stiff, fine grained SAND seams, low plasticity, contains traces of shell fragments and phosphate grains, +HCL					
SS 33	X	<b>A</b>	9-32-25	18		145-		SAND, clayey (SC)- Pale yellow (2.5Y 8/4), dry to damp, very dense, fine to coarse grained with cemented SAND, low plasticity, contains shell fragments and trace phosphate grains, +HCL					
SS 34	X	<b>A</b>	20-15-22	18	110.3_	150-		SAA except dense  Boring terminated at 150 feet					
					SITE	V	    ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1191</b>				
								Timai Liug	D-11/1				



GE	01	ECHNICAL LO	$\mathbf{C}$	OJEC ogtl		3 & 4	CO	L Project	JOB NO.	06-0286	SHEET NO		HOLE NO. <b>B-1192</b>
LOGGE	D BY				DINATES				1	BEGUN		COMPL	ETED
DRILLE	R	D. Atkinson	D	RILL	MAKE AND			7.4 E 6188		2/5/200 HAMMER SE		<b>2/6/2</b> BER	007 TOTAL DEPTH
		White-MACTEC			C	ME-5	55	3 I	nches		331145		179.5
GROUN	ND EL <b>43.2</b>	. DEPTH/EL. GROUND WAT	ER SIT	E:			,	Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	ro, GA
								8		<u> </u>			
SAMP. TYPE AND NO.	SAMPLE +	N-VALUE (SPT)  WATER CONTENT %  ATT. LIMITS %  FINES %  20 40 60 80	1st 6" -5 2nd 6" 0 3rd 6" 2	RECOVERY (in)	N LEETION IN FEETION 243.2	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field cl laboratory te of sample by	ON AND CL lassification adjust esting data and/or y field geologist/o	sted based on	ION		LEVELS, CTER OF NG AND ATORY
SS	<b>A</b> .	20 40 00 60	1-1-2	4	243.2			<b>SAND, with si</b> (7.5YR 5/6), d	ilt (SP-SM	)- Strong bro	own rained	Top of I	Barnwell t a depth of
SS 2			2-3-3	14	239.9_	-		SAA except re	d (10R 4/8	), loose	umeu	0.0 feet	i a deptii oi
SS 2 SS 3		<b>\</b>	2-4-5	10	237.5_	5—		SAND, with c	lay (SP-SC	C)- Yellow (1	10YR		
SS 4	abla	<b>`</b>	2-4-4	15	225.2	- <del> </del> -		SAA except y	ellowish bi	rown (10YR	5/8)		
SS 5	4	<b>A</b>	3-5-6	16	235.2_	10-		SAND, with si 3/2), damp, loc	ilt (SP-SM ose, fine gr	– – – – )- Dusky red ained	1 (10R		
SS 6		<b>A</b>	3-5-8	9				SAA except br moist, medium				Installed casing to 10.0 fee	l 3" steel o a depth of t
SS 7		<b>A</b>	4-6-7	13		15		SAA except re	d (2.5YR 4	1/6)			
SS 8	X	<b>A</b>	3-6-7	8		20-		SAA except str	rong browr	n (7.5YR 5/6	)		
SS 9	X	<b>A</b>	4-7-8	12		25		SAA except re medium graine	ddish yello ed	ow (7.5YR 6/	(8), fine to		
SS 10	X	<b>A</b>	4-6-8	10		30		SAA except ye grained	ellowish br	own (10YR :	5/8), fine		
SS 11	4	<b>\</b>	3-5-5	8		35—		SAA					
SS 12		<b>\</b>	3-5-4	7	201.2	40-		SAA except br	ownish yel	llow (10YR	6/8), loose		
SS 13	<b>A</b>	,	2-3-5	9	201.2_ 196.2_	45		SAND, clayey 6/6), moist, loc	(SC)- Broose, fine gra	wnish yellov ained	w (10YR		
SS			2-2-3	13		_ 		<b>SAND, silty (S</b> (10YR 6/4), w	SM)- Light et, loose, fi	yellowish b	rown n grained		
		BY: A. TAYLOR BY: P. DEPREE			SITE	Ve	ogtle	Units 3 & 4 CO Final Log	OL Project			HOLE NO	-1192
					1	182 of	<del>724</del>	I III LIU	<b>&gt;</b>				/-



GE	OTECHNICAL LO	<u> </u>	OJEC ogtl	ette Units 3 & 4 CO			JOB NO. SHEET N OL Project 6141-06-0286 2 0	O. HOLE NO. B-1192
SAMP. TYPE AND NO.	■ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" - <del>z</del> 2nd 6" <u>0</u> 3rd 6" <u>-</u> z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 60 80			191.7_			-HCL	_
SS 15	<b>A</b>	1-9-5	18	186.2	55—		SAND, clayey (SC)- Light greenish grey (GLEY1 8/10Y), wet, medium dense, fine grained, low plasticity, +HCL	
SS 16	<b>A</b>	10-11-12	18	181.2_	60-		CLAY, silty (CL-ML)- Light greenish grey (GLEY1 7/5GY), wet, very stiff, medium plasticity, +HCL	
SS 17	<b>A</b>	2-5-4	18		65—		CLAY (CH) - Light greenish grey (GLEY1 8/10Y), wet, stiff, high plasticity, +HCL	
SS 18	<b>A</b>	3-4-6	18	176.2_	70—		SAND, with clay (SP-SC)- Light greenish grey (GLEY1 8/10GY), wet, medium dense, fine grained, nonplastic, +HCL	
SS 19	× ,	50/3"	1	166.2	75—		SAA except contains shell fragments up to 1/2" in diameter	
SS 20	× ,	50/3"	2	100.2_	80-		SAND, with silt (SP-SM)- Pale yellow (5Y 8/2), wet, very dense, fine grained, +HCL	
SS 21		11-11-11	9	156.2_	85—		SAA except pale yellow (5Y 8/4), medium dense, fine to medium grained, contains shell fragments up to 1/4" in diameter	
SS 5	<b>A</b>	11-21-22	16	151.2	90-		CLAY (CL) - Pale yellow (5Y 8/3), wet, very stiff, contains shell fragments up to 1" in diameter, nonplastic	Water level depth at end of 2/5/2007 = Ground surface
SS 23	<b>A</b>	15-5-6	18	146.2	95—		SAND, clayey (SC)- Light greenish grey (GLEY 18/10Y), wet, medium dense, fine grained, contains shell fragments up to 1/16" in diameter, nonplastic to low plasticity, +HCL	W-411 d4h -4
SS 24	<b>A</b>	10-14-16	16	141.2_	100		SAND, with silt (SP-SM)- Light greenish grey (GLEY1 8/10Y), wet, dense, fine to medium grained, contains shell hash	
SS 5	<b>A</b>	10-9-20	18	138.2_	105—		CLAY, with sand (CL)- Light greenish grey (GLEY1 8/10Y), wet, very stiff, contains shell ragments, medium plasticity, +HCL	_
				SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1192</b>



GE	EC	TECHNICAL LO	2	OJE(		3 & 4	l Co		T NO.	HOLE NO. 4 B-1192
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" - z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	\ ( 1	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>A</b>	4-7-10	16	131.2	110-		<b>SAND, with clay (SP-SC)</b> - Pale yellow (2.5 8/4), wet, medium dense, medium grained, nonplastic, +HCL	5Y	
SS 27	X	<b>A</b>	6-10-18	18		115-		<b>SAND, with silt (SP-SM)</b> - Pale yellow (2.5 7/4), wet, medium dense, medium grained, contains shell fragments, +HCL	Y	
SS 28	X	<b>A</b>	6-7-22		121.2	120-		SAA except very pale brown (10YR 7/3), fit to medium grained	ne	
SS 29	X	•	6-8-14	16		125—		SAND, clayey (SC)- Yellow (10YR 8/6), wet, medium dense, fine to medium grained nonplastic to low plasticity, +HCL	,	
SS 30	X	<b>A</b>	8-16-20	16	111.2_	130-		SAA except pale yellow (2.5Y 8/3), dense, contains shell fragments		
SS 31	X	<b>A</b>	13-11-15	18	106.2_	135—		SAND, with silt (SP-SM)- Pale yellow (2.5 8/4), wet, medium dense, fine to medium grained, +HCL	Y	
SS 32	X		8-50/5"	8	101.2	140-		SAND, clayey (SC)- Greenish grey (GLEY 6/5GY), wet, very dense, fine to medium grained, +HCL	1	
SS 33	×		50/4"	1.5	101.2_	145-		SAND, with silt (SP-SM)- Light greenish grey (GLEY1 7/10GY), wet, very dense, fin grained, +HCL	e	
SS 34	X	A	14-16-22	12	91.2_	150-		SAA except light greenish grey (GLEY1 8/10Y), dense, fine to medium grained, contains shell fragments		
SS 35	X	<b>A</b>	18-28-29	18		155—		CLAY, silty (CL-ML)- Dark greenish grey (GLEY1 4/5GY), wet, hard, medium plastic +HCL	ity,	
SS 36	X	<b>A</b>	16-29-50	18	85.7_	160-		CLAY, silty (CL-ML)- Greenish grey (GLEY1 5/10GY), wet, hard, medium plasticity, +HCL	]	Top of Blue Bluff Marl at a depth of 157.5 feet.
SS	*		50/2"	1	SITE	- - V	ogtl	SAA except low plasticity e Units 3 & 4 COL Project		HOLE NO.
						184 of	<del>72</del> 4	Final Log		B-1192



GE	EC	TECHNICAL LO	-	OJE(		3 & 4	l C	JOB NO. SHEET NO. <b>OL Project</b> 6141-06-0286 4 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>7</del> 2nd 6" <u>0</u> 3rd 6" <u>4</u>	RECOVERY (in)	ELEVATION IN FEET	LE N H I N F1	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 38	X		13-19-50/4"	18	71.2_	- - - 170-		SAA except medium to high plasticity	
SS 39	M		50/3"	1	66.2_	175—	-	SILT (ML) - Greenish grey (GLEY1 6/10GY), wet, hard, nonplastic, +HCL	
SS 40	X		50-46-50/1"	13	63.6_	-		CLAY, silty (CL-ML)- Greenish grey (GLEY1 5/10GY), wet, hard, medium to high plasticity, +HCL Boring terminated at 179.58 feet	
					SITE	V 185 of		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-1192</b>



GF	OT	ECHNICAL LO	C	OJEC		2.0.4	00	N. D	JOB NO.	26.0206	SHEET NO		HOLE NO.
LOGGE			•		DINATES	3 & 4	CC	OL Project	6141-0	06-0286 BEGUN	1 OF	COMP	B-1193
	ועכ	G. Pillappa		2011		N 114	409	01.5 E 6192	277.8	2/6/200	7	2/8/2	
DRILLER	₹		D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
		Banks-MACTEC			<b>C</b> .	ME-55	50	3 I	nches		337153		178.8
GROUN 25	D EL. <b>4.1</b>	DEPTH/EL. GROUND WAT	TER SIT	E:			,	Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	oro, GA
		= /						8		<u> </u>		<u>.                                    </u>	
SAMP. TYPE AND NO.	SAMPLE + O	N-VALUE (SPT) WATER CONTENT % ATT. LIMITS % FINES %	1st 6" 'z 2nd 6" O 3rd 6" 'A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory t of sample b	lassification adiu		ION	CHARA DRILLI	R LEVELS, ACTER OF NG AND RATORY
		20 40 60 80			254.1								
SS 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	<b>A</b>		1-1-1 1-1-1 1-2-2	16 17 9		5-		SAND, with s (10YR 5/6), m plasticity SAA except you SAA except you	ellowish br ellowish br	own (10YR :	5/8) 6/8)	Top of Group a 0.0 feet	Barnwell at a depth of
4 × SS 5	<b>^</b>		2-2-3	14.5	246.1_	10		SAND, with c					
SS 6		<b>A</b>	4-7-10	11	243.6_ 241.1	10-	K/A	SAND (SP) - V moist, medium					
SS 7		A	7-8-9	13		15—		SAND, clayey medium dense	(SC)- Red, fine grain	l (2.5YR 4/8 ed, low plast	), moist, cicity		
SS 8	<b>A</b>		4-5-6	13.5		20		SAA				Water l	evel depth at 2/6/2007 = 1 surface
SS 5	4	<b>A</b>	4-6-8	13.5		25		SAA				Water l	evel depth at ing of 2/7/2007 feet
SS 10	<b>A</b>	,	3-5-6	9		30-		SAA except re	ed (2.5YR :	5/8)			
SS 11	4	<b>A</b>	4-6-8	7		35		SAA except regrained	ed (10R 5/8	), fine to med	dium		
SS 12	4	<b>\</b>	5-6-7	9	212.1	40-		SAA except re	ddish yello	ow (7.5YR 6/	<sup>'</sup> (8)		
SS 13			4-6-7	16	207.1_	45		CLAY, silty v brown (10YR grained, low p	vith sand ( 8/2), moist lasticity	CL-ML)- Ve	ery pale medium		
ss	•	<b>\</b>	3-5-7	11				SAND, clayey 5/8), damp, me	(SC)- Yel	llowish brow	n (10YR city,		
		Y: A. TAYLOR Y: P. DEPREE			SITE	Vo	_	Final Log		t		HOLE N	o. -1193



GE	EC	TECHNICAL LOC	<u> </u>	OJE(		3 & 4	- CO	DL Project   JOB NO.   SHEET   SHEET   2	NO. OF <b>4</b>	HOLE NO. <b>B-1193</b>
SAMP. TYPE AND NO.	SAMPLE		1st 6" -z 2nd 6" O 3rd 6" _z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NO WA CH DR LAI	TES ON: TER LEVELS, ARACTER OF ILLING AND BORATORY STING
14		20 40 00 80				-		contains traces of phosphate grains		
SS 15	X	<b>A</b>	4-4-6	17		55-		SAA except yellow (10YR 7/8), loose		
SS 16	X	<b>A</b>	3-3-3	18	192.1_	60-		SAA except brownish yellow (10YR 6/8)		
SS 17	X	<b>A</b>	5-20-15	18	1,2.1_	65 –		CLAY, silty (CL-ML)- Pale yellow (5Y 8/3), dry to damp, hard, contains traces of shell fragments and phosphate grains, +HCL		
SS 18	X	<b>A</b>	14-32-15	18		70-		SAA except pale yellow (5Y 8/2)		
SS 19	X	<b>A</b>	7-10-13	18		75-		SAA except pale yellow (5Y 7/4), very stiff		
SS 20	X	<b>A</b>	8-9-11	18	172.1_	80-		SAA except pale olive (5Y 6/4), low plasticity		
SS 21	×		50/6"	7	.,	85 <del>-</del>		SAND, clayey (SC)- Pale yellow (5Y 8/2), dry to damp, very dense, low plasticity, contains shell fragments and phosphate grains		
SS 22	X	<b>A</b>	14-40-35	17.5		90-		SAA except pale yellow (5Y 8/3), +HCL		
SS 23	X		14-50/2"	11		95-		SAA except pale yellow (5Y 7/4)		
SS 24	X		12-50/6"	15	152.1_	100-		SAA except pale yellow (5Y 7/3)		
SS 25	X	<b>A</b>	7-11-13	18	132.1_	105-		CLAY, silty (CL-ML)- Greenish grey (GLEY1 5/10GY), dry to damp, very stiff, low plasticity, contains traces of shell fragments, +HCL	,	
		<del> </del>	<u> </u>		SITE	V 187 of	_	e Units 3 & 4 COL Project Final Log	HOL	B-1193



GE	OTECHNICAL LO	_	OJEC ogtl		3 & 4	C	JOB NO. SHEET NO. OL Project 6141-06-0286 3 OF			
SAMP. TYPE AND NO.	MATER CONTENT %  HATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" _ x	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING		
SS 26	<b>A</b>	7-13-12	18		110-		SAND, clayey (SC)- Pale yellow (5Y 8/3), damp, medium dense, medium to coarse grained, contains shell fragments and phosphate grains, +HCL			
SS 27	<b>A</b>	9-14-15	18		- - 115—		SAA except pale yellow (5Y 8/2)			
SS 28	X .	6-23-50/5"	18		120-		SAA except pale yellow (5Y 7/4)			
SS 29	<b>A</b>	6-11-19	18		125—		SAA except moist			
SS 30	<b>A</b>	7-12-12	18		130-		SAA except light yellowish brown (2.5Y 6/4)			
SS 31	<b>A</b>	8-21-49	16		135—		SAA except pale yellow (5Y 7/4), very dense			
SS 32	<u> </u>	30-34-42	18		140—		SAA except pale yellow (5Y 7/3)			
SS 33	<b>A</b>	9-24-18	18		- - 145—		SAA except pale yellow (2.5Y 8/2), dense			
SS 34	× .	7-50/1"	7		- - 150-		SAA except greenish grey (GLEY1 6/10GY), damp, very dense			
SS 35		50/0"	0	102.1_	- - 155—		NO RECOVERY			
SS 36	<b>A</b>	9-11-12	18	97.1_	160-		SAA except light greenish grey (GLEY1 7/5G), moist, medium dense			
SS	× '	24-50/2"	15	92.1_ SITE	- - - V	ogtl	CLAY, silty (CL-ML)- Dark greenish grey e Units 3 & 4 COL Project	Top of Blue Bluff Marl at a depth of 162.0 feet. HOLE NO.		
							Final Log	B-1193		



GE	OTECHNICAL LO		OJE(		3 & 4	C	JOB NO. SHEET NO <b>OL Project 6141-06-0286 4</b> OF	1			
SAMP. TYPE AND NO.	MATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" 00 3rd 6" ±z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING			
37	20 40 00 80				165-		(GLEY1 4/10GY), dry to moist, hard, contains traces of shell fragments and phosphate grains, +HCL				
SS 38		12-27-44	18	82.1_	170-		SAA except dry to damp, low plasticity				
SS 39		50/0"	0	77.1_	- 175—		NO RECOVERY				
SS 40	*	50/4"	7	75.3_	-		SAA except dark greenish grey (GLEY1 4/5GY) Boring terminated at 178.83 feet				
				SITE Vogtle Units 3 & 4 COL Project  Final Log  HOLE NO.  B-11							



GEOT	ECHNICAL LO	_	OJEC		201	C	OI Duoi oo4	JOB NO.	0.000	SHEET NO		HOLE NO.
LOGGED BY				DINATES	3 & 4	C	OL Project	0141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	<b>B-1194</b> .ETED
	M. Herrera			]			04.7 E 6216		1/16/200	7	1/16/2	
DRILLER		D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
GROUND EL	Skoglund-MACTEC  . DEPTH/EL. GROUND WAT	ER SITE	=-	Diet	trich l	D-5	0 3 I	nches	]	100		50.0
199.4	. DEFINEL. GROUND WAT	EK SIII					Vogtle Elect	ric Gene	erating Pla	ant - Wa	ynesbo	oro, GA
											<u>-                                      </u>	-
1 😾 1 1	N-VALUE (SPT)	N-COUNT	RECOVERY (in)	Z.	ե	δί					NOTES	ON:
AMP. TYF AND NO. SAMPLE	WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ERY	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTIC	N AND CI	ASSIFICAT	ION		R LEVELS, CTER OF
AND SAN	- ATT. LIMITS %	3. 2. 2.	8	N N N	H.	RAF	( * = field cl	lassification adjus	sted based on	ION	DRILLIN	NG AND ATORY
/s `     [	☐ FINES %		REC	ӹ	B	Ю	of sample by	esting data and/or y field geologist/o	engineer)		TESTIN	
	20 40 60 80	2-1-2	20	199.4		· 111	GAND 14	u (an ar			T. 01	
SS 1		5-4-5	15		-		<b>SAND, with si</b> (10YR 5/4), da	ilt (SP-SM imp, very l	)- Yellowish oose, fine gra	brown	Group a	Barnwell at a depth of
		3-4-3	13				SAA except ye	ellowish br	own (10YK :	5/6), loose	0.0 feet	
$\begin{bmatrix} \frac{1}{3} \\ \frac{1}{3} \end{bmatrix}$		8-7-8	16	193.9_	5 <del>-</del>		SAA except ye medium dense	ellowish br	own (10YR 5	5/8), 		
SS 4	<b>A</b>	4-6-12	10		- - -		SAND, silty (\$ 5/6) and strong medium dense	SM)- Yello g brown (7. medium g	owish brown 5YR 5/6), da grained	(10YR ump,		
SS 5		14-18-24	16		10-		SAA except re yellow (10YR contains very p	d (2.5YR 5	5/8) and brow e, fine grained	nish d CLAY		
	<b>A</b>	13-18-20	15		- -		traces SAA except str medium to coa		` ′			
SS 7	<b>A</b> D	10-9-10	14		15—		traces SAA					
				182.4_	-							
SS X	<b>A</b>	6-8-9	15		20-		<b>SAND, clayey</b> 7/8), damp, me	(SC)- Yel edium dens	low (10YR 7 e, fine grains	7/6 to ed		
SS X		8-9-12	13		25		SAA except co CLAY trace	ontains pale	e yellow (5Y	8/2)		
SS N	<b>A</b>	7-8-12	17		30-		SAA					
SS II	□ 🛦	12-10-13	13	167.4_ 162.4	35-		*SAND, with brown (10YR 6/6), moist, me rounded	silt (SP-SN 6/4) to brodedium dens	M)- Light yel wnish yellow e, fine graine	lowish (10YR ed,		
SS Z	<b>\</b>	5-4-6	14	157.4	40-		SAND, clayey (10YR 6/4) to moist, loose, fi	(SC) - Lig brownish y ne grained	ht yellowish yellow (10YF	brown R 6/6),		
	⊐▲	10-8-10	12		45 —		* <b>SAND, with</b> (10YR 7/4), da	clay (SP-S	C)Very pale im dense	brown		
SS X	<b>A</b>	8-7-9	17	149.4			SAA except ve pale yellow (2.	ery pale bro .5 <u>Y</u> 7/4), m	own (10YR 7	7/4) and medium		
	BY: A. TAYLOR			SITE	V	ogtl	e Units 3 & 4 CO	OL Projec			HOLE NO	
REVIEWED E	3Y: P. DEPREE				190 of	<del>72</del> 4	Final Log	<u> </u>			B	-1194



GE	OTECHNICAL LO	PROJECT  Vogtle Uni	its 3 & 4 CO	JOB NO. L Project 6141-06-0286	SHEET NO.  2 OF 2	HOLE NO. <b>B-1194</b>
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - Z 2nd 6" O 3rd 6" Z 3rd 6" Z 3rd 6" Z BECOVERY (in) (in) (in) (in) (in) (in) (in) (in)	DEPTH IN FT	DESCRIPTION AND CLASSIFICAT  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)  grained, -HCL  Boring terminated at 50 feet	NC W/A CION CF DR LA	OTES ON: ATER LEVELS, IARACTER OF RILLING AND BORATORY STING
		SITE	, 050-0	Units 3 & 4 COL Project Final Log	НОІ	.e no. <b>B-1194</b>



GEOTECHNICAL LOG	PROJEC		3 & 4 CO	OL Project	JOB NO. <b>6141-0</b>	6-0286	SHEET NO		IOLE NO. <b>B-1195</b>
LOGGED BY M. Herrera		DINATES		74.8 E 6224		BEGUN		COMPLE	TED
DRILLER	DRILL	MAKE AND		HOLE DIAME		1/17/200 HAMMER SE		1/1 <b>7/2</b> ER	TOTAL DEPTH
Skoglund-MACTEC  GROUND EL. DEPTH/EL. GROUND WATER	SITE:	Diet	trich D-5	0 3 II	nches		100		50.0
$\begin{array}{c c} 220.6 & \overset{\nabla}{\mathbf{x}} / \\ \end{array}$	SIIE.			Vogtle Electi	ic Gene	rating Pla	ant - Wa	ynesboi	ro, GA
SEA SS + ATT. LIMITS % ☐ FINES %	3rd 6" ⋛ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIO  (* = field ck laboratory te laboratory te lof sample by	N AND CL ssification adjus sting data and/or field geologist/e	ted based on	ION		LEVELS, CTER OF G AND TORY
SS 20 40 60 80 2-1-	-2 15	220.6	8111	SAND, with si	lt (SP-SM	)- Light yello	owish	Top of B	arnwell
1 SS 2 2-2 SS 3 3 3-2			5—	SAND, with si brown (10YR 6 6/6), damp, ver SAA except bro		vnish yellow ne grained, ro low (10YR 6	ounded 5/6)	Group at 0.0 feet	a depth of
SS 4 3-3	-4 11	212.6_		SAA					
SS 5 4-5	-7 20	211.1_ 210.1_	10-	SAND (SP) - V wet, medium de	ery pale ye ense, medi	ellow (10YR um to coarse	7/3), grained, /		
SS 6 5-4	-7 15	210.1_		SAND, with si (7.5YR 5/6), m SAND, clayey 5/8), damp, me	lt (SP-SM oist, medit	)- Strong bro	wn /		
SS 7 10-11	-14 22		15-	5/8), damp, me rounded SAA	dium dens	e, medium g	rained,		
SS 8 18-15	D-22 15		20-	SAA except de	nse				
SS 9 17-15	i-18 17		25	SAA except fin	e grained				
SS N 8-11	-11 18		30-	SAA					
SS 11 A 9-8	-9 15		35—	SAA except bromoist	ownish yel	low (10YR 6	5/8),		
SS 12	-9 17		40-	SAA except co CLAY traces	ntains pale	yellow (5Y	8/3)		
SS N A 7-7-	-8 17	173.6	45-	SAA except bro 10YR 6/8), fine	ownish yel grained	low (10YR 6	6/6 to		
SS	-9 21	170.6		*SAND, clayed	y (SC)- Ye	ellow (10YR ticity, -HCL	7/8),		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vogtle	e Units 3 & 4 CC Final Log	L Project	!		HOLE NO.	1195



SEOTECHNICAL LOG	-	OJEC ngtl		3 & 4	CO	DL Project   JOB NO.   SHEET NO.   SHEET NO.   2 OI		HOLE NO. <b>B-1195</b>
	1st 6" -7- 2nd 6" 00 3rd 6" 1		ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTE WATI CHAF DRIL	ES ON: ER LEVELS, RACTER OF LING AND DRATORY
TFINES % 20 40 60 80		RE	ш			Boring terminated at 50 feet	TEST	ING
			SITE			e Units 3 & 4 COL Project	HOLE	



GI	=_	TECHNICA	LLOG		OJEC		•	. ~ ~		JOB NO.		SHEET NO		HOLE NO.
			L LOO				3 & 4	CC	OL Project	6141-0	<b>6-0286</b> BEGUN	1 OF	COMPI	B-1196
LOGG	בט ו	м. Herrera	a		JUK	DINATES	N 114	1729	36.6 E 6220	17.5	1/15/200	<b>)7</b>	1/16/	
DRILL	ER	141, 1101101		D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
		Skoglund-MAC				Diet	rich	D-5	0 3 I	nches		100		50.0
GROU 2	IND 17.	$\nabla$ /	OUND WATER	SITI	E:				Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	oro, GA
				'										
SAMP. TYPE AND NO.	ш	▲ N-VALUE (SPT)	N-C	OUNT	RECOVERY (in)	Z O F	ᇤ	ပ္သ					NOTES	
F.O	SAMPLI	O WATER CONTE	NT % 5	2nd 6" 3rd 6"	ÆR	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTIO	N AND CL	ASSIFICAT	ION		R LEVELS, ACTER OF
AMA	SAI	+ ATT. LIMITS %			00	N N N	EPT	3RA	( * = field c laboratory to	lassification adjust esting data and/or y field geologist/e	re-examination			NG AND ATORY
\ o		☐ FINES %							or sample o	y neia geologist (	ingineer )		TESTIN	IG
SS	M	20 40 60	80 : WOI	H/6"-1-	1 10	217.5			SAND, with s	ilt (SP-SM	)- Yellowish	brown	Top of	Barnwell
1 SS	$\bigvee$	<b>\</b>	1	-1-1	12		-		(10YR 5/4), di	y, very loo	se, medium	grained,	Group a 0.0 feet	at a depth of
2 SS	<b>)</b>			-2-2	12		-		SAA except by damp SAA	ownish yel	low (10YR)	6/6),		
3	Å						5 —		SAA					
SS 4	X	<b>A</b>	2	-3-4	15		-		SAA except yo loose, medium	ellowish broto to coarse g	own (10YR) grained	5/8), wet,		
SS	M		2	-1-5	17		-		SAA except re grained, sub-ro	ddish yello	w (7.5YR 6	/6), coarse		
5 SS		<b>A</b>	2-	11-26	24	205.5	10-		SAA except re					
6	A					203.3_	-		*SAND, silty very dense, me	(SM)- Red	(2.5 YR  4/6)	), damp,		
SS 7	X		22-	-25-28	13		-		SAA except re	d (2.5YR 5	5/6)			
'						200.5	15-							
						200.5_	-							
SS	X	<b>A</b>	17-	-20-27	13		-		SAND, with s (5YR 5/8), mo	ilt (SP-SM	)- Yellowish	red		
8							20-		(3 1 K 3/8), IIIO	ist, delise,	ille grailled,	Tounded	Water l	evel depth at 1/15/07 =
						195.5_	-						Ground	surface
SS	M		9-	10-11	12		-		SAND, silty (S	SM)- Yello	wish red (5)	YR 5/8),	beginni	evel depth at ng of 1/16/07
9	H						25-		moist, medium	i dense, fin	e grained		= Borel	nole dry
			:			190.5_	-							
SS	$\forall$	<b>A</b>	15	-18-27	12		-		SAND, with s	ilt (SP-SM	)- Brownish	vellow		
10	A						30-		SAND, with s (10YR 6/8), da grained	amp, dense	medium to	čoarse		
						185.5_	-	Щ						
SS	$\mathbb{H}$	<b>A</b> 🗆	6-	-6-11	12		-		SAND, clavev	( <b>SC</b> )- Yel	low (10YR ′	7/6).		
11	A						35 —		SAND, clayey moist, medium medium plastic	dense, fin	e grained, co	ontains		
							-		1	-				
99		<b>A</b>	7.	-7-10	12		-		SAA					
SS 12	X			, 10	12		40-		SAA					
							-							
		<b>A</b>		7 10	14		-		G. 4.					
SS 13	X	Ī	5	-7-10	14		45-		SAA					
							-							
		<b>A</b>					-							
SS	M	_	7	'-6-8	18	167.5	-		SAA except bi -HCL					
		D BY: A. TAYLOR D BY: P. DEPREE				SITE	V	ogtlo	e Units 3 & 4 Co Final Log		t		HOLE NO	o. -1196
V IL		J JIII DEI NEE					194 of	724	I mai LU	<del>-</del>				11/0



GEOTECHNICAL LOG	PROJECT Vogtle			JOB NO.	SHEET NO	
GEOTECHNICAL LOG  A N-VALUE (SPT) ON O	Vogtle	Units 3 & 4	SOL Project  SOL Project  SOL Project	N AND CLASSIFICAT assification adjusted based on sting data and/or re-examination field geologist/engineer)	<b>2</b> OF	
		SITE V <sub>0</sub>	ogtle Units 3 & 4 CC Final Log	DL Project		HOLE NO. <b>B-1196</b>



GE	EC	OTECHNICAL LO	C	OJEC		2010	OI Design	JOB NO.	06.0206	SHEET NO	•	HOLE NO.
LOGGI			•		DINATES	3 & 4 (	COL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	<b>B-1197</b> ETED
		M. Herrera					874.7 E 6220		1/15/200		1/15/2	2007
DRILLE	ĒR		D	RILL	MAKE AND		HOLE DIAM		HAMMER SE		ER	TOTAL DEPTH
GROU	ND	Skoglund-MACTEC  DEL. DEPTH/EL. GROUND WAT	ER SIT	E:	Diet	trich D-	50 31	nches		100		50.0
		5.6 \( \frac{\pi}{\mathbf{x}} \) /					Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	ro, GA
SAMP. TYPE AND NO.	ш	▲ N-VALUE (SPT)	N-COUNT	RECOVERY (in)	NO F	F   6					NOTES	
J. O	SAMPLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ÆR	ELEVATION IN FEET	DEPTH IN F	:     DESCRIPTION	ON AND CI	LASSIFICAT	ION	CHARA	LEVELS, CTER OF
AME AN AN AN AN AN AN AN AN AN AN AN AN AN	SAI	+ ATT. LIMITS %		0	E.E.	EPT GRA	( * = field of laboratory to of sample h	lassification adju esting data and/o y field geologist/	sted based on r re-examination engineer)		DRILLIN LABOR	
0		☐ FINES %						, 8 8	g,		TESTIN	G
SS	M	20 40 60 80	1-1-1	17	245.6		SAND, with s	ilt (SP-SM	I)- Yellowish	brown	Top of I	Barnwell
1 SS	$\mathcal{H}$	<b>A</b>	2-2-2	15		] ]	SAND, with s (10YR 5/6), d rounded	amp, very l	oose, mediur	n grained,	Group a 0.0 feet	t a depth of
SS 2 SS		<b>A</b>	2-3-3	13			SAA except st	•	n (7.3 Y K 3/6	)		
3	Å				240.1_	5-	SAA except ic					
SS 4	X		3-2-4	7			SAND, silty (moist, loose, f	SM)- Yello ine grained	owish red (5Y l, rounded	7R 5/6),		
SS 5	X	<b>A</b>	4-4-5	12		10-	SAA except re	ed (2.5YR 4	4/6)			
SS 6	X	(D)A	6-8-10	11	222.6		SAA except re	ed (10YR 4	/6)			
SS	M	•	9-10-15	12	232.6_		SAND, clayey medium dense	(SC) - Red	 d (2.5YR 4/6)	 ), damp,		
7	М					15-	medium dense	, fine to me	edium graine	d		
					228.6_		<del></del>					
SS	$\forall$	<b>A</b>	12-15-18	12			SAND, with s moist, dense, i	ilt (SP-SM	I)- Red (2.5Y	R 5/6),		
8	A					20-	moist, dense, i	neđium gra	aîned, rounde	ed ´´		
					223.6_							
SS	$\mathbb{H}$		10-11-15	11			SAND (SP)-1	Reddish ve	llow (7.5YR	6/8).		
9	А					25-	SAND (SP) - wet, medium of	lense, fine	grained, rour	ided'		
					218.6_		:					
SS	$\mathbb{H}$	, □○ ▲	7-13-16	13			*SAND with	cilt (SP_SI	M- Brownisl	n vellow		
10	Å					30-	*SAND, with (10YR 6/6) an medium dense	d yellowish	h red (5YR 5 edium graine	/8), moist, d		
									<u> </u>			
SS	H		12-12-20	16		-	SAA except y	allow (10V	D 7/6 and 7/9	8) dry		
11	Å					35-	dense, mediun	n grained, s	sub-rounded	<i>5)</i> , <b>u</b> ry,		
ee.		<b>1</b>	13-20-21	11			CAA ayaant y	hita (10VI	0 (2/1) and had	ioh		
SS 12	X		13-20-21	11		40-	SAA except w yellow (10YR grained	6/8), damp	o, medium to	coarse		
					203.6_		51411104					
00			6-6-8	26			OT AT	(CI) P :	11 /2 -	X 7/4		
SS 13	Д		0-0-8	20		45-	CLAY, sandy and yellow (2. grained SANI	5Y 7/6), da medium	e yellow (2.5 amp, stiff, co	ntains fine		
					198.6_		grameu SANL	, mediuili				
SS	M		6-6-5	26	195.6		*SAND, silty damp, mediun	<u>n deńse, me</u>	edium plastic	ity,		
		ED BY: A. TAYLOR ED BY: P. DEPREE			SITE	Vog	tle Units 3 & 4 C Final Log		t		HOLE NO	-1197
		· · ·——			1	196 of 72		<b>-</b>				



GEOTECHNICAL LOG	PROJEC*	T e Units 3 & 4	1 COL Pi	roject	JOB NO. <b>6141-06-0286</b>	SHEET NO 2 OF	I .	HOLE NO. <b>B-1197</b>
AN-VALUE (SPT)  O WATER CONTENT %  H ATT. LIMITS %  FINES %	2nd 6" S 3rd 6" Z 3rd 6" Z RECOVERY (in)	ELEVATION IN FEET DEPTH IN FT	HCS	SCRIPTIO	N AND CLASSIFICAT assification adjusted based on sting data and/or re-examination field geologist/engineer)		NOTES WATER CHARA DRILLI	S ON: R LEVELS, ACTER OF NG AND RATORY
TINES % 20 40 60 80	REC				rained SAND, -HCL tted at 50 feet		TESTIN	NG
		SITE 197 o	Fin	s 3 & 4 CC nal Log	OL Project S		HOLE N	o. -11 <b>97</b>



GF	=(	TC	FCH	NIC	AL LO	$\mathbf{C}$	OJEC		2 0 4		21 B	JOB NO.	06.006	SHEET NO		HOLE NO.
LOGG						▼ '		e Units :	3 & 4	CO	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	8 E	B-3001(DH) FTED
			M.	Harv	ey				N 114	1259	99.5 E 6217	799.6	11/29/20	06	2/5/2	
DRILLI	ER				•	D	RILL	MAKE AND	MODE	L	HOLE DIAM	IETER	HAMMER SI	ERIAL NUMB		TOTAL DEPTH
GROU	NΙD	FI	Warr		actec BROUND W	ATER SIT	F·	<u>C</u>	ME-	75	61	Inches		211797		420.0
		3.4	▽ / ▼ /	TIVEE. C	NOOND W	ATER OIT					Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	oro, GA
<u> </u>	Ш		N-VALU			N-COUNT	Y (in	N O F	ᇤ	SS					NOTES	
F.O	SAMPL	0	WATER	R CON	TENT %	1st 6" 2nd 6" 3rd 6"	VER	/ATI FEE	드	GRAPHICS	DESCRIPTION			ION	CHARA	R LEVELS, ACTER OF
SAMP. TYPE AND NO.	SA	+	ATT. LI	MITS 9	%		RECOVERY (in)	ELEVATION IN FEET	DEPTH IN	GR/	( * = field of laboratory to of sample b	classification adju- testing data and/or by field geologist/o	sted based on r re-examination engineer )		LABOR	NG AND ATORY
07			FINES		n on		<del>Z</del>								TESTIN	lG
SS	×		20 4	<del>i</del>	0 80	50/4"	6	218.4		$\bowtie$	GRAVEL (G	P)- Brown	(7.5YR 5/2)	, very	Top of	Fill at a depth eet
SS 1	×					50/6"	12	216.9_	-	$\bigcap$	*SAND, silty very dense	(SM)- Red	(2.5YR 5/8)	), dry,	Top of	Barnwell
2 SS			•	:		17-17-20	14		-		SAA except d	ense			1.5 feet	at a depth of
3	$\mathcal{A}$			:				212.9_	5 —							
SS 4				:		10-9-15	11		-		* <b>SAND, with</b> (7.5YR 6/8), c	silt (SP-SN lry, mediun	M)- Reddish n dense	yellow		
SS	$\forall$		<b>A</b>			13-13-15	12		-		SAA					
5	A			:				207.9_	10-			. <b>_</b>				
SS 6	X					14-14-16	16		-		*SAND, silty medium dense	(SM) - Red	d (2.5YR 4/8	s), dry,		
SS			<u>.</u>			14-10-10	12		-		SAA					
7	Å		:	:					15-		57171					
									-							
00			: •	:		8-12-8	10		-		C A A	-11 (1037	D 7/6) to me	1 (2 5VD		
SS 8	X					0-12-0	10		20-		SAA except y 5/8)	ellow (10 Y	K //6) to rec	1 (2.5 Y K		
				:					-							
				:					-							
SS 9	X		1			11-9-10	10		25-		SAA except re	eddish yello	ow (7.5YR 6	/8)		
									-							
									-							
SS 10			<b>A</b> □			6-8-10	12		30-		SAA					
				:					- 00							
			~	:					-							
SS 11	X	4	<b>\</b>			5-6-7	14		25		SAA except b	rownish ye	llow (10YR	6/8)		
''								101 4	35							
				:				181.4_	-							
SS 12	X	4	<b>\</b>			6-7-8	18		-		SAND, clayey 6/6), dry, med	(SC) - Bro	wnish yello	w (10YR		
12	П								40-		5, 5 <sub>1</sub> , ary, mou	.a delise,	gramed	•		
			:	:				176.4_	-							
SS	X		<u>*</u>	:		6-9-10	18		-		* <b>SAND, with</b> (10YR 6/8), m	silt (SP-SN	M)- Brownis	h yellow		
13	$\prod$			:					45 -		(101K 0/8), II	ioisi, iiieull	am uchse			
			:	:				171.4_	-							
SS	M	•		:		3-4-5	17		-		SAND, clayey	(SC)- Yel	low (10YR	7/6), dry,		
PREPA	ARE	ED B,	: /: A. TAY	LOR	: :	<u> </u>		SITE	V	ogtl	loose, fine gra e Units 3 & 4 C	OL Projec	t		HOLE NO	
REVIE	WE	D BY	': P. DEP	REE					198 of	724	Final Log	<u> </u>			B-3(	<u>)01(DH)</u>



GE	Ξ(	ЭΤ	ECH	lNI	CAL	LO		oje o <b>gt</b> l		3 & 4	l C(	JOB NO. SHE DL Project 6141-06-0286	<b>2</b> OF	
SAMP. TYPE AND NO.	SAMPLE	0 +	ATT. L	R CC	NTEN	T %	1st 6" - <del>z</del> 2nd 6" O 3rd 6" <u>z</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14				:					166.4_	-				
SS 15	X		<b>A</b>				10-9-10	11		55—		SAND (SP) - Yellow (10YR 7/6), dry, medium dense		
SS 16	X		<b>A</b>				8-10-12	11	161.4_ 156.4	60-		*SAND, with silt (SP-SM)- Yellow (10Y) 7/6), moist to wet, medium dense	 R	
SS 17	X	•					WOH/6"-2-2	18	130.4_	65 —		SAND, clayey (SC)- Very pale brown (10 8/2) and brown (10YR 5/6) mottled, moist wet, very loose to loose, fine to medium grained	OYR to	
SS 18	X						WOH/18"			70-		SAA except pale yellow (2.5Y 8/4), wet, v loose	/ery	
SS		,					50/3"	18	146.4_	-		CLAV sandy (CL)Pale vellow (5Y 8/3)		Loss of circulation at a depth of 72.0 feet
19									143.9_	75-		CLAY, sandy (CL)Pale yellow (5Y 8/3), damp, hard *SHELL HASH, silty (GM)- Pinkish whi (7.5YR 8/3), damp, very dense, +HCL	/	Top of Utley Limestone at a depth of 74.5 feet
SS 20	×						50/1"	0		80-		NO RECOVERY		
SS 21	×		•				10-10-12	18	136.4_	85 —		CLAY (CL) - Green, pale yellow (5Y 7/4) damp, very stiff	),	
SS 22	X		<b>A</b>				10-10-20	13	129.9_	- - 90-		CLAY (CL) - Dark greenish gray (GLEY) 4/1/10GY), damp, very stiff to hard	1	Top of Blue Bluff Marl at a depth of 88.5 feet
35	<b>V</b>						50/2"	0	126.4_	- - - 95		NO RECOVERY		D 11 1 25
SS 23							50/2"	"	121.4_	-				Reamed hole to 95 feet using 6" drill bit. Installed 6" PVC casing to a depth of
UD 1								14		100-		*CLAY, with shell hash and cemented fragments (CL)- Greenish gray (GLEY1 5/5GY), moist, hard, low plasticity, +HCL Pocket Penetrometer: >4.5 TSF, >4.5 TSF, TSF	,>4.5	casing to a depth of 98.0 feet. Pitcher  Water level depth at end of 1/21/07 = Ground surface
UD 2								3		105-		SAA Pocket Penetrometer: >4.5 TSF, >4.5 TSF TSF	,>4.5	Pitcher Water level depth at beginning of 1/22/07 = Ground surface
		<u> </u>	:	·	:	:			SITE	V 199 of	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-3001(DH)</b>



GE	O	TECI	HNIC	CAL	LOG		OJEC ogtl		3 & 4	l C(	OL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VA  ○ WATI  + ATT.  □ FINE: 20	ER CON LIMITS S %	NTENT 9	-	2nd 6" ⊖ 3rd 6" ⊐	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field c	DN AND CLASSIFICAT lassification adjusted based on esting data and/or re-examination y field geologist/engineer)	ION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
UD 3		0					16	106.4	110-		SAA Pocket Penetro TSF	ometer: >4.5 TSF, >4.5	TSF, >4.5	Pitcher
UD 4		0	<b>├</b>	<del>] </del>			27		115-		*SILT, sandy 5/5GY), moist Pocket Penetro TSF	(MH)- Greenish gray ( , very stiff, +HCL ometer: 1.5 TSF, 2.5 TS	GLEY1 F, 2.0	Pitcher At 96.0 feet:
SS 24	X		•		3	3-20-33	19	06.4	120-	-       -       -       -	SAA except gi hard, low plas nodules	reenish gray (GLEY1 6/ ticity, contains trace cen	5GY), nented	End logging by M. Harvey. Begin logging by R. Clark. End drilling by Warren-MACTEC.
SS 25	×					50/5"	6	96.4_	125-		*CLAY (CL) 6/5GY), moist +HCL	- Greenish gray (GLEY , hard, contains rock fra	1 gments,	Wateri-MACTEC Begin drilling by Oglesby-MACTEC (to install casing only) with a CME-75, hammer serial #219907 Begin drilling by
SS 26	×					50/5"	6	86.4	130-		SAA except li 7/10Y), contai	ght greenish gray (GLE ns trace cemented nodu	Y1 les	Begin drilling by Bilbrey-Miller with a CME-85, hammer serial #270256
UD 5		+0-	-++				24	80.4 <u> </u>	135-		+HCL Pocket Penetro	shells (CL)- Greenish (Y), moist, hard, low pla		Pitcher
SS 27	X				13	-15-50/4"	18	01.4_	140-		CLAY (CL)- moist, hard, lo	Greenish gray (GLEY1 w plasticity, +HCL	6/10Y),	
SS 28	X		<b>A</b>		1	9-18-17	18		145-		SAA except li 7/5GY)	ght greenish gray (GLE	Y1	
SS 29	X		<b>A</b>		1	2-18-19	22		150-		SAA except co	ontains shells		Water level depth at end of 1/23/07 =
UD 6		0					17.5		155-		SAA except st Pocket Penetro TSF	iff ometer: 1.0 TSF, 1.5 TS	F, 1.4	Ground surface  Water level depth at beginning of 1/24/07 = 32.0 feet  Pitcher
SS 30	X	<b>A</b>			;	8-12-16	18	61.4_	160-		SAND, with c greenish gray dense, very fir	clay (SP-SC)- Very dark (GLEY1 3/10Y), moist, the grained, nonplastic, -1	medium HCL	Water level depth at end of 1/24/07 = Ground surface Top of Still Branch Formation at a depth of 157.0 feet Water level depth at beginning of 1/29/07 = 29.4 feet
SS		:		<u>.</u>	1	2-16-42	20	SITE	V 200 o		e Units 3 & 4 Co Final Log		wet, very	HOLE NO. <b>B-3001(DH)</b>



GEOTECHNICAL LOG		ojec		3 & 4	CC	JOB NO. SHEE <b>6141-06-0286</b> 4	T NO. OF	HOLE NO.  8 B-3001(DH)
A N-VALUE (SPT)  O NO NO WATER CONTENT %  H ATT. LIMITS %  □ FINES %  20 40 60 80	2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	V   C   L	IOTES ON: VATER LEVELS, :HARACTER OF :RILLING AND ABORATORY ESTING
31				165-		dense		
UD 7		22		170—		SAA except greenish gray (GLEY1 5/5GY), medium dense Pocket Penetrometer: 1.0 TSF, 0.75 TSF, 0.7 TSF	5 P	itcher
UD 8 - +		24		175—		SAA Pocket Penetrometer: 0.75 TSF, 0.5 TSF, 0.5 TSF	P	itcher
SS 32 X	8-13-21	19		- 180— -		SAA except dark greenish gray (GLEY1 4/10Y)	v e C	Vater level depth at and of 1/29/07 = bround surface
				185—			b b	Vater level depth at eginning of 1/30/07 23.0 feet
SS 33	9-18-30	20		- - 190—		SAA except dense		
UD 9		17		195—		SAA Pocket Penetrometer: 4.2 TSF, 3.5 TSF, 3.8 TSF	P	itcher
SS 34 \( \bar{\Pi} \)	13-20-22	20		200-		SAA		
				205-				
UD 10 D++		19		210-		SAA Pocket Penetrometer: 1.8 TSF, 2.5 TSF, 1.9 TSF	P	itcher
			3.9_	215-			T F o	op of Congaree ormation at a depth f 214.5 feet
SS 35 \( \bigsigma \)	40-31-34	20		220-		SAND, with silt (SP-SM)- Greenish gray (GLEY1 5/10Y), wet, very dense, coarse grained, nonplastic, +HCL		
			SITE	V 201 of		e Units 3 & 4 COL Project Final Log		DLE NO. <b>B-3001(DH)</b>



GE	Ξ	OTECHNICAL LOC	<u> •</u>	OJE ogt		3 & 4	l CO	JOB NO. SHEET NO <b>OL Project 6141-06-0286 5</b> OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -7 2nd 6" O 3rd 6" _1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 36	X	<b>A</b>	22-30-45	18	-5.6 <sub>_</sub>	225-		SILT (ML) - Light gray (GLEY1 7/N), moist, hard, low plasticity, low toughness, micaceous, contains CLAY, -HCL	
SS 37	X	4	3-35-50/5.5	" 18		235		CLAY (CL) - Pale red (10R 7/3) and white (10R 7/3), damp, hard, low plasticity, high toughness, presence of iron staining, -HCL	Water level depth at end of 1/30/07 = Ground surface  Water level depth at beginning of 1/31/07 = 27.0 feet
UD 11				16		245— - - 250— -		SAA except white (10R 8/1), moist, +HCL Pocket Penetrometer: 4.0 TSF, >4.5 TSF, 4.4 TSF	Pitcher
SS 38	X	<b>A</b>	17-22-28	19		255- 		SAA except white (GLEY1 8/N), reddish brown (2.5YR 5/4), and olive yellow (2.5Y 6/6) mottled, medium toughness, contains calcareous concretions and abundant iron staining, -HCL	
SS 39	X	<b>A</b>	13-23-33	18	-53.6_	265- - - 270- - - - 275-		SAA except dark gray (10YR 4/1), damp, contains trace laminations	
		<u> </u>			SITE	V 202 of		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3001(DH)</b>



GEOTECHNICAL LOG	PROV		3 & 4 C(	JOB NO.  OL Project 6141-06-0286	SHEET NO	
WATER CONTENT %  O WATER CONTENT %  H ATT. LIMITS %  FINES %  20 40 60 80		ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AND CLASSIFICA  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 40 \( \( \)	10-24-28	7	280-	SAND, with clay (SP-SC)- Gray (G 6/N), wet, very dense, coarse grained to medium grained, subangular to su nonplastic, micaceous, -HCL	LEY1 l/some fine brounded,	Water level depth at beginning of 2/2/07 = 62.0 feet
UD 12	2	24	290	SAA except light gray (10YR 7/1), r dense, fine to medium grained Pocket Penetrometer: 1.5 TSF, 2.0 T TSF	nedium SF, 1.0	62.0 feet Pitcher
SS 41 \( \bigs \)	25-26-34 1	16	300	SAA except very dense, medium to grained	coarse	
SS X 42	30-50/4.5"	-95.6	305-	SAA except dark gray (10YR 4/1), v fine grained	ery fine to	
SS X 43	27-43-50/3" 1		315—	SILT (MH) - Dark gray (10YR 4/1) hard, medium plasticity, low to med toughness, contains trace mica, -HC	moist, um	
SS 44	9-16-25	-114.6_	325-	CLAY (CH) - Dark gray (10YR 4/1 hard, high plasticity, contains SANE thick, medium grained, +HCL	, moist, lenses 1"	Water level depth at end of 2/2/07 = Ground surface  Water level depth at beginning of 2/3/07 = 66.0 feet
		SITE	Vogtl 203 of 724	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-3001(DH)</b>



GE	OTECHNICAL LO	~	OJEC		2 0 4	~	OI Desired	JOB NO.	SHEET NO	
			ogti	e Units	3 & 4	C	OL Project	6141-06-0286	<b>7</b> OF	8 B-3001(DH)
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field c	DN AND CLASSIFICAT lassification adjusted based on setting data and/or re-examination y field geologist/engineer)	ION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS \\ 45	<b>▲</b>	12-15-22	18	-120.6_	340		\grained nonn	ilt (SP-SM)- Light brov 2), wet, medium dense, astic Very dark gray (GLEY w plasticity, medium to ns laminations of SILT,	,	Loss of circulation at
				-125.6_	345		CLAY (CL)- moist, hard, lo blocky, contain	Very dark gray (GLEY) w plasticity, medium to ns laminations of SILT,	1 $\overline{3/N}$ , — — ughness, -HCL	a depth of 342.0 feet. Added 3 batches of drilling fluid before fluid level stabilized at a depth of 68.0 feet. Circulation never reestablished. Top of Snapp
UD 13			15.5		350		SAA except lig 7/10Y), dry, high Pocket Penetro TSF	ght greenish gray (GLE igh toughness ometer: >4.5 TSF, 4.5 T	Y1 SF, >4.5	Top of Snapp Formation at a depth of 344.0 feet Pitcher Water level depth at end of 2/3/07 = 66.0 feet Water level depth at
ss \	7	20-35-41	22		355		SAA except li	ght gray (GLEY1 7/N), staining and mica	damp,	beginning of 2/4/07 = 64.0 feet
46 /	<u> </u>			-145.6_	360		contains iron s	taining and mica		
SS 2	4	23-50/5"	13		365—		CLAY, with s moist, hard, lo grained SAND mica, -HCL	cand (CL)- White (GLE) we plasticity, fine to med b, contains CLAY lenses	EY1 8/N), lium s and	Experincing hole collapse and loss of circulation at a depth of 365.0 feet
				-155.6_	375					
SS 48 2	•	23-37-50	16		380-		CLAY (CL) - hard, low plast iron staining, -	Light gray (GLEY1 7/N ticity, high toughness, c HCL	N), damp, ontains	
					385					
UD 14	0		6	SITE	390—		TSF	ometer: 2.0 TSF, 2.5 TS	F, 2.5	Pitcher  Water level depth at end of 2/4/07 = 66.0 feet
				SILE	Vo 204 of	_	e Units 3 & 4 Co Final Log			B-3001(DH)



	OTECHNICAL LOC	PRO	OJEC	T				JOB NO.	SHEET NO	).	HOLE NO.
GEC	OTECHNICAL LOG	Vo	ogtl	e Units	3 & 4	C	OL Project	6141-06-0286	<b>8</b> OF	8	B-3001(DH)
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 0" -7- 2nd 6" -0 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field c	DN AND CLASSIFICAT classification adjusted based on testing data and/or re-examination by field geologist/engineer)	ION	WAT CHAI DRIL LABO TEST	
				-175.6_	395-					Wate begin 64.0	r level depth at ning of 2/5/07 = feet
UD 15			24	-182.1_	400-		SAND, with c 8/N), wet, ver contains CLA Pocket Penetro \TSF	clay (SP-SC)- White (Gly dense, fine grained, no Y matrix and mica, -HC ometer: >4.5 TSF, >4.5	LEY1 nplastic, L TSF, >4.5	Pitch	er
					410-		Continue drill before geophy cuttings to sett reestablished	ing to 420' to serve as a sister of the since circulation was	"rathole" I to allow not		
				-201.6_	415-						
							Boring termin	ated at 420 feet			
				SITE	v	ogtl	e Units 3 & 4 C			HOLE	
					205 of	<del>72</del> 4	Final Log	g		В-3	3001(DH)



GI	=C	TECHNICAL	LOG		JEC <sup>-</sup>		2.0		)	JOB NO.		SHEET NO		HOLE NO.
LOGG						Units DINATES	3 & 4	i CO	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	5 B	-3002(DH) ETED
		A. Reimer							00.0 E 6218		11/29/20		1/25/2	
DRILL	ER	Christian-MAC	LEC.	DF	RILL	MAKE AND	MODE		HOLE DIAM	ieter Inches	HAMMER SE	RIAL NUMB 200587	ER	TOTAL DEPTH <b>249.9</b>
GROU		EL. DEPTH/EL. GRO		SITE	:		IVIL		I					
2	18.	9 💆 /							Vogtle Elect	ric Gene	erating Pla	ant - Wa	ynesbo	ro, GA
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTEN  + ATT. LIMITS %  □ FINES % 20 40 60	N-CO 19 151 C	3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field laboratory of sample to the sample t	ON AND CL classification adjustesting data and/or by field geologist/o	sted based on	ION		LEVELS, CTER OF G AND ATORY
SS	X	20 40 60	18-5	0/4"	7				GRAVEL (G	P)Gravelly	and sandy		Top of F	ill at a depth
1 SS 2 SS 3 SS	XX	<b>▲</b>	32-1 17-1 9-12	8-20	18 16 13.5	216.9_	5- 5-		SAA SAND, silty ( 4/8), dry to da grained, nonpi SAA except d SAND, clayey layer	lastic ry, contains (SC), yello	1.5" thick la owish red (5)	yer of (R 5/8)	Top of B	
4 SS 5	X	<b>A</b>	8-11	1-12	15	210.9_	-		sAND, silty, or reddish brown (5YR 5/8), dry			1 1		
SS 6		<b>A</b>	8-11	1-13	16.5		10-		SAND, silty (4/8), dry, med grained, nonplesAA	ium dense, lastic	fine to medit	J K lm		
SS 7	X	<b>A</b>	8-12	2-13	15.5	201.9_	15- -		SAA except re yellowish red CLAY, sandy 4/8), low plast	(5YR 5/8), (CL), reddi	vn (2.5YR 4/6 contains 2" l ish brown (2.	6) and ayer 5YR		
SS 8	X		10-1	2-17	11	196.9_	20-		SAND, silty, obrown (10YR grained, nonplottom 5" modulo 5/8)	clayey (SC-6/8), dry, n lastic, slight ttled with re	-SM)- Yellow nedium dense tly lignitic, ca eddish brown	vish e, fine alcareous, (2.5YR		
SS 9	X	•	8-9	-10	12.5	191.9_	25-	711	SAND (SP)- yellow (7.5YF to coarse grain calcareous	Brown (7.5 R 6/6), damped, well gr	YR 5/6) and p, medium de aded, nonpla	reddish ense, fine stic,		
SS 10	X	<b>A</b>	5-6	5-8	16.5	186.9_	30-		SAND, silty, 67/6) and yello medium dense plasticity, calc	clayey (SC-wish brown e, fine to me careous	-SM)- Yellov (10YR 5/6), edium grained	v (10YR damp, d, low		
SS 11	X	<b>A</b>	6-7	-11	15.5	181.9_	35-		CLAY, silty, 7/6) and brow very stiff, low grained SANI	plasticity,	-ML)- Yellov (10YR 6/6), fine to mediu	w (10YR damp, m	Water le end of 1 Ground	vel depth at 1/28/06 = surface
SS 12	X		5-9	)-9	16	176.9_	40-		*SAND, with yellow (10YR 5/6), moist, m grained, nonpl	silty clay ( 6/6) and ye edium dens lastic to low	SP-SC)- Broellowish brove, fine to coay plasticity, con	wnish vn (10YR rse alcareous	Water le beginnin = 18.5 fe	vel depth at g of 11/30/06 et
SS 13	X	<b>A</b>	44	1-7	17	171.9_	45-		SAND, clayed 6/6) and yello medium dense medium plasti	e, fine to me	ownish yellow (10YR 5/6), edium grained	v (10YR moist, d,		
SS	X	<b>A</b>	9-9	-10	14.5	QITE	-		*SAND, with yellow (10YR				HOLE NO	
		D BY: A. TAYLOR D BY: P. DEPREE				SITE			e Units 3 & 4 C Final Lo		t		HOLE NO <b>B-30</b>	02(DH)
							206 o	724						



GEOTECHNICAL LOG	PROJE Vogt		3 & 4 C	JOB NO. OL Project 6141-06-0286	SHEET NO	
WATER CONTENT %  S UND WATER CONTENT %  HATT. LIMITS %  FINES %  20 40 60 80	2nd 6" S 3rd 6" Z 3rd 6" Z RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AND CLASSIFICATI  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14				5/6), moist, medium dense, fine to coa grained, nonplastic, lignitic, calcareous	rse S	
SS 15 \( \sqrt{\text{\tin}}\text{\tin}\text{\tinit}\\ \text{\tin}}\\ \tittt{\texi}\text{\text{\text{\texi}}\\ \tittt{\text{\text{\text{\texi}\text{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi}\til\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi	9-14-20 15	161.9	55-	SAA except with yellow (10YR 7/6), of dense, slightly lignitic	damp,	
SS X 16	0-14-19 13.5		60-	SAND, silty (SM)- Yellow (10YR 7/6 yellowish brown (10YR 6/4), and pink 7/3), damp to moist, dense, fine to coa grained, nonplastic, lignitic	), light (7.5YR rse	
SS 17 + -0 137	1-1-2 18		65-	*SAND, clayey (SC)- Pale olive (5Y olight yellowish brown (2.5Y 6/3), dam loose, medium plasticity, fine to mediu grained, contains nodules of strong bro (7.5YR 5/8), fine grained SAND, slight the strong brooks and the strong brooks are strong brooks and the strong brooks are strong brooks.	6/4) and p, very im own itly	
SS N 18	0-11-20 19	146.9	70-	lignitic, -HCL		
SS 19 1	1-16-35 19.5		75—	CLAY, silty (CL-ML)- Pale yellow (27/3), moist, hard, nonplastic to low pla contains shell fragments, +HCL	2.5YR sticity,	Top of Utlay
SS 20	50/3" 2		80-	CLAY, silty (CL-ML)- Pale yellow (27/3), moist, hard, nonplastic to low pla contains shell fragments, +HCL	2.5YR sticity,	Top of Utley Limestone at a depth of 76.0 feet Loss of circulation at a depth of 76.0 feet
SS × 1	7-50/2" 7	133.4_	85—	SAA except pale yellow (2.5Y 8/4)		Loss of circulation at a depth of 81.0 feet
		133.1	-	*SILT (MH)- Greenish gray (GLEYI 5/5GY), dry, hard, fine grained SAND	, +HCL	Top of Blue Bluff Marl at a depth of 85.5 feet
SS 22	8-20-32 19.5	;	90-			Loss of approximately 80 gallons of drilling fluid from depths of 85.0 to 87.0 feet End logging by A. Reimer. Begin logging by A. Taylor.
	50/4.5" 4		95 –	SAA except greenish gray (GLEY1 6/s	5GY)	End drilling by Christian-MACTEC. Begin drilling by
55	24 4-50/5" 15		100-	SAA		Oglesby-MACTEC (to install casing only) with a CME-75, hammer serial #219907. Begin drilling by Burnett-Gregg Drilling with a CME-850, hammer serial #X02958. Installed 6" steel
24		111.9_	105-		=	casing to a depth of 95.0 feet Pitcher
	1	SITE		e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-3002(DH)</b>



GE	:O	TECHNICAL L		OJE( ogtl		3 & 4	l C(	OL Project	JOB NO. 6141-06-0286	SHEET NO	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" _1z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field class	N AND CLASSIFICAT ssification adjusted based on ting data and/or re-examination field geologist/engineer)	ION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 25	X	<b>⊕</b>	- + 12-20-50/3"	21	106.9_	110-		*CLAY, with s (GLEY1 6/5GY contains shell fr	and (CH)- Greenish g ), dry, hard, high plast agments, +HCL	gray licity,	
UD 2		+6⊟+				- 115—		*SAND, silty (\$6/5GY), moist, fragments, +HC	SM)- Greenish gray (Chigh plasticity, contain	GLEY1 ns shell	Pitcher
SS 26	X		20-40-50/4"	26	96.9_	120-		SAA except gre dry, very dense, (SP), greenish g	eenish gray (GLEY1 6/ contains 6" seam of S gray (GLEY1 5/5GY)	(10Y), SAND	Water level depth at beginning of 1/12/07= 11.5 feet
SS 27	X	++ •	18-42-38	26		125-	-	*SILT (MH) - dry, very hard, ogreenish gray (0	Greenish gray (GLEY) contains 6" seam of SA GLEY1 5/5GY)	1 6/10Y), AND (SP),	Loss of circulation at a depth of 125.0 feet
SS 28	X	<b>A</b>	9-9-32	20		130-	-	SAA except dar	np, hard		
SS 29	X	<b>A</b>	10-16-18	25		135-	-	SAA			Installed 4" steel casing to a depth of 132.0 feet. Changed from 5 7/8" to 3 7/8" tri cone roller bit. Changed from NWJ rods to AWJ rods.
SS 30	X	<b>A</b>	10-17-17	25		140-	-	SAA except +H	CL		lous to Awa lous.
SS 31	X	<b>A</b>	18-23-23	27		145-		SAA			
SS 32	X	<b>A</b>	10-18-23	24		150-	-	SAA			Water level depth at end of 1/19/07= 24.5
SS 33	X		31-50/5"	10	65.9_	- - 155—		(GLEY1 3/10G	t (SP-SM)- Greenish s Y), wet, very dense, fi s traces of phosphate s	ne	feet End logging by A. Taylor. Begin logging by M. Herrera. Top of Still Branch Formation at a depth of 153.0 feet
SS 34	X	<b>A</b>	12-17-24	13		160-		SAA except ver 3/10Y), moist, of gray CLAY sea	y dark greenish gray ( Jense, contains dark gr ms, -HCL	GLEY1 eenish	of 133.0 feet
SS	×		50/4"	4	SITE	- - V	ogtl	SAA except light of Units 3 & 4 CO Final Log		Y1	HOLE NO. <b>B-3002(DH)</b>
					1	208 of	<del>72</del> 4				2 2002(DII



GE	OTECHNICAL LO	~	OJE(		3 & 4	C	OL Project 61	NO. 141-06-0286	SHEET NO	
SAMP. TYPE AND NO.	■ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" - z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AN  (* = field classificat laboratory testing de of sample by field ge	ND CLASSIFICATI tion adjusted based on tat and/or re-examination cologist/engineer)	ON	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
35					165—   170—		5/10Y), wet, very de	ense, contains SIL	Γ seam	
SS 36	z	50/3"	6	41.9_	175—		SAA except light gr 5/10Y), contains tra fine grained SAND	reenish gray (GLE)	Y1 rains and	
SS 37	<b>A</b>	9-15-25	18		180-		SAND, clayey (SC) (GLEY1 3/10Y), m containse traces of s	)- Light greenish groist, dense, fine grashell fragments, -H	ray ained, CL	
UD 3			24		185-		SAA except light gr 5/5GY) and dark gr 3/5GY), moist to wo	reenish gray (GLEY eenish gray (GLEY et	Y1 /1	Direct Push
				29.9_	190-					
SS 38 2	<b>A</b>	20-27-29		19.9_	195 — - - - -		SAND, with silt (Signeenish gray (GLE grained, contains so	<b>P-SM)</b> - Very dark Y1 3/10Y), very do me CLAY seams	ense, fine	
SS 39	<u> </u>	10-50/6"	13		200-		CLAY, sandy (CL) (GLEY1 4/10Y), m plasticity, fine grain	)- Dark greenish gr oist, hard, medium ned SAND, -HCL	ray	
				9.9_	210-					
SS 3	× .	26-50/6"	10		215-		SAND, clayey (SC) (GLEY1 3/5GY), m grained, rounded, -I	)- Very dark greeni noist, very dense, fi HCL	ish gray ne	Water level depth at end of 1/23/07 = 18.0 feet
				-1.1_	220-					Top of Congaree
				SITE	209 of		e Units 3 & 4 COL P Final Log	roject		B-3002(DH)



GE	EC	OTECHNICAL LOC	<b>~</b>	OJE Ogtl		3 & 4	l C	JOB NO. SHEET NO.  OL Project 6141-06-0286 5 OF	
SAMP. TYPE AND NO.	SAMPLE		1st 6" - z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 41	***		50/3"	2	-10.1	225-		SAND (SP) - Light greenish gray (GLEY1 7/10Y), wet, very dense, coarse grained, sub-rounded, -HCL	Formation at a depth of 220.0 feet
SS 42	×		50/4"	4	-20.1_	230-		SAND, with silt (SP-SM)- Greenish gray (GLEY1 6/10Y), wet, very dense, medium to coarse grained, sub-rounded, -HCL	
UD 4 SS 43	×		50/5"	0 3	-24.6_ -28.1_	240-		NO RECOVERY  SAND (SP) - Greenish gray (GLEY1 6/10Y to 5/10Y), wet, very dense, medium to coarse grained, sub-rounded, -HCL	Direct Push
SS 44	X		20-30-50/5"	19	-31.0_	-		SAND, with silt (SP-SM)- Light greenish gray (GLEY1 7/10Y), moist, very dense, fine to coarse grained, -HCL Boring terminated at 249.92 feet	
					SITE	V 210 o		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3002(DH)</b>



<b>J</b> I III IOI LO	PROJEC	`T				JOB NO.		loueet No.	LIOLENO	
GEOTECHNICAL LOG			3 & 1	CO	L Project		06-0286	SHEET NO.		
LOGGED BY		DINATES	<i>5</i> <b>&amp; 7</b>		ıı ı ı ujett	V171-(	BEGUN	1 UF	COMPLETED	А
A. Taylor			N 114	259′	7.9 E 62187	78.8	1/17/200	)7	1/17/2007	
DRILLER	DRILL	MAKE AND	MODEL	L	HOLE DIAME	TER	HAMMER SE			EPTH
Burnett-Gregg Drilling		<b>C</b> .	ME-8	50	5 In	iches		X02958	21.5	5
GROUND EL. DEPTH/EL. GROUND WATER  218.8	SITE:			•		·	4° DI	4 XX/	CA	
218.8 💆 /	<u> </u>				v ogue Electr	ic Gene	erating Pi	ant - way	ynesboro, GA	
A N-VALUE (SPT)  O WATER CONTENT %  B JS PEC  S S PEC  S S PEC  N-CO  N-CO  S S S PEC  S S PEC  N-CO  S S S PEC  S S S PEC  N-CO  S S S PEC  S S S S PEC  S S S S S S S S S S S S S S S S S S S	3rd 6" = A	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION (* = field clar laboratory tes of sample by	ssification adius		ION	NOTES ON: WATER LEVELS CHARACTER OF DRILLING AND LABORATORY TESTING	
	4-18 16	205.3_	5-		STRAIGHT AU 13.5'  BORING PERF TESTING ONL  SAND (SP) - Ro medium grained	FORMED Y	FOR SPT E	NERGY		
	6-16 22 9-44 14	198.8_ 197.3_	20		SAA except red (5YR 7/6) SAND, with sil 4/6) and reddish dense, fine to m Boring Termina					
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vo	ogtle	Units 3 & 4 CO Final Log		t		HOLE NO. <b>B-3002</b> A	



GE	EO	TECHI	NICAL LO		OJE		204	~	OI D ' 4	JOB NO.	0.6.0206	SHEET NO		HOLE NO.
LOGG				V		RDINATES	3 & 4	C	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	B-3003(DH) ETED
			Harvey				N 114				11/27/20		2/7/2	
DRILLI	ER	Warra	MACTEC	D	RILL	MAKE AND	MODE CME-7		HOLE DIAM	ETER [nches	HAMMER SI	ERIAL NUMB <b>211797</b>	ER	250.0
GROU	ND I	EL. DEPTI	-MACTEC H/EL. GROUND WA	TER SIT	E:		NIL-	13	3 1	inches		211/9/		250.0
2	18.	3 ⊈ /							Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	oro, GA
		A NI V/AI I I	E (ODT)		)									
J. (PE)	щ	▲ N-VALU	, ,	N-COUNT	Y (in	NO L	F	CS					NOTES	
٩.٥ ٧.٦	SAMPLE	O WATER	CONTENT %	1st 6" 2nd 6" 3rd 6"	VER	VATI	_ E	GRAPHICS	DESCRIPTION			ION	CHARA	CTER OF
SAMP. TYPE AND NO.	SA	+ ATT. LIN			RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GR/	laboratory of sample b	classification adju testing data and/o by field geologist/	sted based on r re-examination engineer )		LABOR	NG AND ATORY
"		☐ FINES 9			R	218.3							TESTIN	IG
SS	M	20 4	0 00 00	8-18-12	15	218.0	_		GRAVEL, sil	ty (GP-GN	M)- Bed of ro	adway /	Top of l	Fill at a depth
1 SS	M	<b>A</b> 🗆		10-13-10	12	216.8-	-		SAND (SP) - I	,	// • /	/	Top of 1	Barnwell
SS 2 SS 3	Ħ	<b>A</b>		8-12-13	9	215.0_	-		*SAND, clayed medium dense *SAND, silty medium dense	e, contains ( SM) - Red	ea (2.5 Y K 5/ CLAY seams d (2.5 Y R 4/I	8), ary, 5) dry – 1	1.5 feet	t a depth of
		[A]		12 0 12	10		5-					,,,,,		
SS 4	X	<u> </u>		12-8-12	10		_		SAA except y	ellowish re	d (5YR 5/8)			
SS	$\forall$	<b>A</b>		3-5-12	6		-		SAA					
5				10 10 10	12		10-		g				Water le	evel depth at ng of 11/28/06
SS 6	X	Ŧ		10-10-10	12		-		SAA				= Boreh	iole dry
SS	$\forall$	<b>A</b>		11-11-11	9		_		SAA except re	ed (2.5YR 4	4/6)			
7	H						15-							
							-							
SS	M		<b>A</b>	12-15-27	10		_		SAA except d	ense				
8							20-							
							-							
SS	$\forall$			12-15-17	10		-		SAA except v brown (10YR	ery pale bro	own (10YR 8	3/3) to		
9	H						25—		brown (10YR	5/3), fine t	o medium gr	ained		
							_							
SS	$\forall$	<b>A</b>		12-15-17	10		-		SAA					
10	A						30-							
						186.3_	-							
SS	$\forall$	<b>A</b>		6-7-8	17		-		*SILT, sandy	( <b>ML</b> )- Mo	ottled pale ve	ellow		
11	Н						35-		*SILT, sandy (2.5Y 8/3) and stiff	l reddish ye	ellow (7.5YR	6/8), dry,		
						181.3_	_							
SS	$\mathbb{H}$	<b>A</b>		6-8-11	12		-		*SAND, with	silt (SP-SI	<b>V</b> D- Pale vell	ow		
12	A						40-		(2.5Y 7/4), dr	y, medium	dense			
							-							
SS	$\mathbb{H}$	<b>A</b>		10-9-8	14		-		SAA except y	ellow (10V	R 7/6)			
13	Ä						45 —		57 II I except y	-11011	11.110)			
							-							
SS		<b>A</b>		4-8-12	18		_		SAA					
	NRF	D BY: A. TAYI	OR			SITE	V	Ogtl	e Units 3 & 4 C	OL Projec	t		HOLE NO	).
		D BY: P. DEPF							Final Log					003(DH)
							212 of	124						



GE	ΞC	TE	СН	NIC	CAL	LO	~	oje( o <b>gt</b> )		3 & 4	C	JOB NO OL Project 6141	). 1-06-0286	SHEET NO		OLE NO. 3003(DH)
SAMP. TYPE AND NO.	SAMPLE	○ V + A	TT. LI	R CO	NTENT	Г % 80	1st 6" - <del>7</del> 2nd 6" <u>C</u> 3rd 6" <u>-</u> 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND  (* = field classification in laboratory testing data and of sample by field geological description of the field geologica	adjusted based on nd/or re-examination	ION	NOTES ( WATER I CHARAC DRILLING LABORA TESTING	LEVELS, STER OF G AND TORY
14										- - -						
SS 15	X		<b>A</b>				12-20-10	11	161.2	55 <del>-</del>		SAA				
SS 16	X		<b>A</b>				10-20-10	18	161.3_	60-		*SAND, silty (SM)- \7/3), damp, dense	Very pale brown	10YR		
SS 17	X						8-9-11	15	151.8	65-		SAA except yellow (10	0YR 8/6), moist			
SS 18	X		<b>A</b>				25-16-16	17	131.6_	- - - 70-		SAND (SP) - Very pal moist, dense, contains	e brown (10YR shell hash	8/4),		
								40	146.3_	- - -						
SS 19	X						10-15-16	18	141.3_	75-		SAND, clayey (SP-SC (10YR 8/4), moist, der	C)- Very pale bronse, contains she	own ell hash		
SS 20	×					4	50/4"	5	141.5_	80-		*SHELL HASH, silty yellow (2.5Y 8/3), wet	( <b>GM)-</b> Very pa	 ale	Top of Ut Limeston of 77.0 fe	tley e at a depth et
SS 21	×					4	50/2"	2		85-		SAA			Loss of ci	irculation at f 83.0 feet
SS 22	X		•	: O <del></del> -		<del>-</del>	15-16-16	18	129.8_	90-		*SILT (MH)- Dark gr 4/5GY), hard	reenish gray (GI		Top of Bl Marl at a 88.5 feet	ue Bluff depth of
SS 23	X	4		+0-	<u>:</u>		2-7-12	18		- - 95 –		SAA except very stiff				
UD 1								0	121.3_	100-		NO RECOVERY			Drilling.   End loggi   Harvey	a depth of Casing by Graves ing by M.
UD 2			0					27	116.3_	105-		*CLAY (CL) - Greeni 5/10Y), wet, hard, con +HCL Pocket Penetrometer: >		l nents,	Herrera. End drilli Warren-N Begin dri	ng by MACTEC. Illing by Gregg with a Froste
	1 1			•			1		SITE	213 of		e Units 3 & 4 COL Proj Final Log	ject		HOLE NO.	03(DH)



GE	OTECHNICAL LOG	•	OJEC ogtl		3 & 4	C	JOB NO.   SHE DL Project   6141-06-0286	EET NO.	
SAMP. TYPE AND NO.		1st 6" 5 2nd 6" 5 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
UD 3			21	106.3	110-		SAA except greenish gray (GLEY1 6/10Y	)	XDML, hammer serial #X02958 Pitcher Pitcher Pitcher
SS 24	X 0+G-+	12-50/6"	18.5	101.3_	- 115—		*CLAY, with cemented layers (CL)- Lig greenish gray (GLEY1 7/10Y), wet, hard, plasticity, contains cemented layers and sh fragments, +HCL	ht low iell	
SS 25	× •	44-50/1"	12		120—		*CLAY (CL) - Greenish gray (GLEY1 6/10Y), damp, hard, low plasticity, contain shell fragments, +HCL	ıs	
SS 26		19-31-26	18		125—		SAA except low plasticity		Water level depth at end of 1/30/07 = Ground surface
SS 27		14-15-25	18		130-		SAA except medium plasticity		Water level depth at beginning of 1/31/07 = 10.0 feet
UD 4			29		135—		SAA except light greenish gray (GLEY1 7/10Y)		Pitcher
SS 28		15-23-22	18		140-		SAA except greenish gray (GLEY1 6/10Y light olive gray (5Y 6/2), low plasticity	) to	
SS 29		23-50/6"	9	71.3_	145—		SAA except light greenish gray (GLEY1 7/10Y) to light gray (5Y 7/2)		
UD 5	10+-		28.5	66.3_	- - 150—		*CLAY (CH) - Light greenish gray (GLE 7/10Y) to light gray (5Y 7/2), damp, hard, plasticity	Y1 high	Pitcher
SS 30		16-30-32	16	00.3_	155— 		SAND, clayey (SC)- Very dark greenish g (GLEY1 3/10Y), moist, very dense, fine grained, -HCL	gray	Top of Still Branch Formation at a depth of 152.0 feet
UD	Ō		20		- - 		SAA except greenish gray (GLEY1 6/10Y		Pitcher
				SITE	V 214 of		e Units 3 & 4 COL Project Final Log		B-3003(DH)



GE	EC	OTECHNICAL LOC	•	OJE( ogtl		3 & 4	C	JOB NO. SHEET N <b>OL Project</b> 6141-06-0286 4 c	O. HOLE NO. B-3003(DH)
SAMP. TYPE AND NO.	SAMPLE		1st 6" -7 2nd 6" 00 3rd 6" 11	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
6						165-			Water level depth at end of 1/31/07 = Ground surface
					49.3_	170—			Water level depth at beginning of 2/5/07 = 18.0 feet
SS 31	X	<b>A</b>	9-15-26	18		175—		SAND, with silt (SP-SM)- Very dark greenish gray (GLEY1 3/10Y), moist, dense, fine grained, rounded, -HCL	
					39.3_	- 180-			
SS 32	X	<b>A</b>	8-30-35	18		185— -		SAND, silty (SM)- Very dark greenish gray (GLEY1 3/10Y), moist, very dense, fine grained, rounded, -HCL	
SS 33	X	<b>A</b>	8-18-27		19.3_	190— - - - - - 195— -		SAA except dark greenish gray (GLEY1 4/10Y), dense	Water level depth at end of 2/5/07 = Ground surface  Water level depth at
SS 34	$\boxtimes$		<b>3</b> 5-50/3"	7		200-		SAND, with silt (SP-SM)- Greenish gray (GLEY1 5/10Y), moist, very dense, medium grained, rounded, -HCL	beginning of 2/6/07 = 17.5 feet
UD 7				24	3.3_	210-		SAA except fine to medium grained	Pitcher
					3.3_	215-		CLAY (CL) - White (GLEY1 8/N), damp, hard, medium plasticity, -HCL	Top of Congaree Formation at a depth of 215.0 feet
					SITE	V 215 of		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3003(DH)</b>



GE	EC	OTECHNICAL LOG	•	OJE(		3 & 4	l C(	JOB NO. SHEET NO.  OL Project 6141-06-0286 5 OF	
SAMP. TYPE AND NO.	SAMPLE		1st 6" - 7 2nd 6" 0 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 35	X		12-35-50/5"	18		225-		SAA except white (GLEY1 8/N) to light greenish gray (GLEY1 8/10Y), dry	
SS 36	X	•	10-22-30	18	-20.7_	230-		SAA except red (10R 5/6) and light red (10R 7/6)	
SS 37	X	<b>A</b>	14-22-24	18	20.7_	240-		CLAY, silty (CL-ML)- Pale red (10R 7/3), white (GLEY1 8/N), and light greenish gray (GLEY1 8/10Y), dry, hard, -HCL	Water level depth at end of 2/6/07 = Ground surface
SS 38	X	<b>A</b>	10-20-25	18	-31.7_	250-		SAA except red (10R 5/6) and white (GLEY1 8/N), damp Boring terminated at 250 feet	Water level depth at beginning of 2/7/07 = 16.5 feet
					SITE	216 of		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3003(DH)</b>



GE	ОТ	ECHN	ICAL L		ROJEC		20	1.00	N. Duoinet	JOB NO.	06.0206	SHEET NO		HOLE NO.
LOGGE				•		DINATES	3 & <sup>2</sup>	ł CC	OL Project	0141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	B-3004 ETED
DD# 1 5		R. C	lark				N 114				2/28/200		3/3/2	
DRILLE		v-MILLI	ER DRIL		DRILL	MAKE AND	морь :МЕ-		HOLE DIAM	nches	HAMMER SE	ERIAL NUME <b>270256</b>	SER	160.0
GROUN	D EL.	DEPTH/E	L. GROUND		TE:									
21	8.5	Ţ / Ţ /			1 1				Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	ro, GA
SAMP. TYPE AND NO.	SAIMPLE +	N-VALUE WATER C ATT. LIMIT FINES % 20 40	ONTENT %	1st 6" -7- 2nd 6"00 3rd 6" 1x0	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIO  (* = field or laboratory to f sample b	DN AND CI lassification adju- esting data and/or y field geologist/	sted based on	TION	CHARA	LEVELS, CTER OF NG AND ATORY
SS		20 40	00 00	3-16-22	16	210.3			GRAVEL, wi	th sand (G	GP)- Brown (	7.5YR	Top of I	Fill at a depth
	₹	<b>A</b>		11-10-10	18	216.4_			¬area ∖SAA	, ,			Top of I	Barnwell
$\begin{bmatrix} SS \\ 3 \end{bmatrix}$		<b>A</b>		11-13-9 8-11-12			5-		*SAND, clayedamp, medium nonplastic SAA		ed (2.5YR 5/ ry fine graine	(6), ed,	Group a 2.1 feet	t a depth of
SS 4	4			6-11-12	17				SAA except m	ioist				
SS 5				7-14-14	16		10-		SAA					
	$\overline{\mathbf{X}}$	^		8-12-11	17				SAA					
SS 7		<b>A</b>		9-11-11	17		15-		SAA except fi subrounded	ne to medi	um grained,			
SS 8		<b>A</b>		8-9-12	18	201.5_	20-	- - - -	SAND, with s (7.5YR 6/8), n grained, nonpl	ilt (SP-SM noist, medi astic	O- Reddish yum dense, ve	rellow ery fine		
SS 9		<b>A</b>		5-12-18	14	191.5	25-		SAA except yo	ellow (10Y	R 7/6), damp	o, dense		
SS 10		<b>A</b>		3-9-11	15		30-		SAND, with c (7.5YR 6/6), n grained, conta	lay (SP-SC noist, medi ins 1" CLA	C)- Reddish y um dense, ve Y lenses	yellow ery fine		
SS 11 2	•			2-2-5	18	186.5_	35-		*SAND, claye moist, loose, lo low plasticity,	ey (SC)- You toughnoor to	ellow (10YR ess, very fine ace dark org	7/6), grained, anics		
SS 12	<b>A</b>	□ <b>0</b> +	+	3-3-4	17	176.5	40-		SAA except no	o organics				
SS 13	<b>A</b>			4-2-4	18	176.5_ 174.5_ 171.5_	45-		SAND, with c 7/6), moist, loc CLAY (CL)- medium stiff,	osě, verv fi	ne grained, r	nonplastic/		
SS		1		3-8-7	17				* <b>SAND, claye</b> 8/4), moist, me	ey (SC)- P	ale yellow (2 se, very fine			
		Y: A. TAYLO				SITE	V	ogtl	e Units 3 & 4 Co Final Log	OL Projec	t		HOLE NO	-3004
						I	<del>217 o</del>	<del>f 724</del>		<b>-</b>				



GE		OTECHNICAL LOC	<u> </u>	OJEC Natl		3 & 1	C	JOB NO. SHEET N OL Project 6141-06-0286 2 c	O. HOLE NO. B-3004
SAMP. TYPE AND NO.	SAMPLE	<ul><li>○ WATER CONTENT %</li><li>+ ATT. LIMITS %</li><li>□ FINES %</li></ul>	1st 6" -7 2nd 6" O 3rd 6" -1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS 15	X	20 40 60 80	8-8-8	16		55—		nonplastic, contains iron staining  SAA except pale yellow (10YR 8/4)	
SS 16	X		10-10-14	15	161.5_ 156.5_	60-	<i>())</i>	SAND, with silt (SP-SM)- Yellow (10YR 7/6), wet, medium dense, very fine grained, nonplastic	
SS 17	X	wo	DR/6"-WOH	121		65 — 		CLAY, with sand (CL)- Pale yellow (5Y 8/3), moist, very soft, low plasticity, low toughness, contains very fine SAND lenses	Loss of circulation at a depth of 63.5 feet
SS 18	X	<b>A</b> O +	1-2-4 6-7-7	18	146.5_	70- - - -		SAA except pale yellow (5Y 8/2), medium stiff contains trace shells, +HCL  SAND, with clay (SP-SC)- Pale yellow (5Y	Water level depth at end of 2/28/07 = 65.0
19 SS 20			50/1"	0	140.5_	75— - - - 80—		SAND, with clay (SP-SC)- Pale yellow (5Y 8/2), moist, medium dense, very fine grained, nonplastic, +HCL  NO RECOVERY	Water level depth at beginning of 3/2/07 = 63.0 feet Top of Utley Limestone at a depth of 78.0 feet
SS 21			50/0"	0	132.1_	- - - 85 —		NO RECOVERY	
SS 22	X	<b>A</b>	3-7-18	20		90-		*SILT (MH) - Light yellowish brown (2.5Y 8/2) and dark greenish gray (GLEY1 4/5GY), moist, very stiff, high plasticity, +HCL	Top of Blue Bluff Marl at a depth of 86.4 feet
UD 1		0 ++		30		- 95 — - -		SAA except dark greenish gray (GLEY1 4/5GY), damp, high toughness, contains cemented fragments Pocket Penetrometer: >4.5 TSF, >4.5 TSF, >4.5 TSF	Pitcher
SS 23 SS	X \( \tau \)	0 +	50/4"	20		100-		SAA except greenish gray (GLEY1 5/5GY), moist, hard  SAA except medium toughness	
24	X				SITE	105 V	_	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3004</b>



		OTECHNICAL LOG	~	OJEC		204	C	JOB NO. SHEET N	
	-~ 			ogtl	e Units	3 & 4	C	<b>DL Project</b>   6141-06-0286   3 c	DF 3 B-3004
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" 5 2nd 6" O 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 25		4	50/.5"	0.5		110-		SAA except, dry, very hard	
UD 2		O		16		- - 115—		SAA except moist, hard	Pitcher
SS 26	X	+0+ □ 4	17-31-50/3"	16		120-		SAA	
SS 27	×	•	50/3"	3		125—		SAA except greenish gray (GLEY1 5/10Y), damp	
SS 28	×	•	50/2"	2		130-		SAA except contains angular cemented marl	Water level depth at end of 3/2/07 = Ground surface
SS 29	X	•	22-37-50/1"	17		135—		SAA except light olive gray (5Y 6/2), moist	Water level depth at beginning of 3/3/07 = Ground surface
SS 30	X	<b>A</b>	22-31-40	20		140—		SAA	
SS 31	X	•	18-37-50/1"	15		145-		SAA	
SS 32	X	4	12-17-21	19		- 150-		SAA	
SS 33	X	<b>A</b>	13-15-22	20	61.5_	- 155—		SAA except light gray (5Y 7/2), contains trace angular cemented fragments	Changed from a 5 7/8 inch to a 2 7/8 inch to a 12 7/8 inch drilling bit. Top of Still Branch Formation at a depth of 157.0 feet
SS 34	X	<b>^</b>	32-41-39	15	58.5_	- - 160-		SAND, with clay (SP-SC)- Very dark greenish gray (GLEY1 3/5GY), wet, very dense, fine grained, nonplastic, -HCL Boring terminated at 160 feet	Top of Still Branch Formation at a depth of 157.0 feet
					SITE	V 219 of	_	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3004</b>



GEC	OTECHNICAL LOG	PROJ <b>Vog</b>		3 & 4 CO	JOB NO. L Project 6141-	-06-0286 SHEET NO	
LOGGED	BY G. Pillappa	cod	DRDINATES	N 1142717	7.6 E 621749.1	BEGUN 2/9/2007	2/13/2007
DRILLER	<b>G. 1 шарра</b>	DRII	LL MAKE AND		HOLE DIAMETER	HAMMER SERIAL NUME	
GROUND	Banks-MACTEC  EL. DEPTH/EL. GROUND WATER	OITE:	C	ME-550	6 Inches	337153	155.0
219.	$\nabla$ /	SITE:		V	ogtle Electric Gen	nerating Plant - Wa	ynesboro, GA
SAMP. TYPE AND NO. SAMPLE		2nd 6" O 3rd 6" Z 3rd 6" Z	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AND C (* = field classification ad laboratory testing data and of sample by field geologis	iusted based on	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
	<b>20</b> 40 60 80		219.2				
SS 1 SS 2 SS 3	5.		217.7_ 216.0_		SAND, silty (SM)- Yeldry to moist, loose, fine CLAY, silty (CL-ML)-damp, very stiff SAND, clavey (SC)- Rodamp, medium dense, co		Top of Barnwell Group at a depth of 0.0 feet
	9.	12-17 1	6		SAA		
	10	-18-18 15	5.5	10-	SAA except red (2.5YR	. 5/8), dense	
SS X	0 🗆 🛕	-16-19 1	5 208.2_		*SAND, silty (SM) - Redamp, dense, contains C	ed (2.5YR 4/8), dry to CLAY seams	
SS 7	7.	12-15 1	5		SAA except strong browdense	vn (7.5YR 5/8), medium	
SS X	8-	10-11 1	197.2	20-	SAA except red (2.5YR to medium grained, con	4/8), dry to damp, fine tains CLAY lenses	
SS Z	O + <b>A</b> - + 8.	12-15 1		25	*SAND, clayey (SC)- \\ 5/8), damp, medium der grained, contains CLAY	Yellowish red (5YR nse, fine to medium Y lenses	
SS 10	10	-12-11 9	187.2_	30	SAA except strong brov	vn (7.5YR 5/8)	
SS II	•	5-6-7 1		25	CLAY, silty with sand brown (10YR 5/8), dry SAND seams	(CL-ML)- Yellowish to damp, stiff, contains	
SS Z		1-5-6	5	40-	SAA except brownish y	ellow (10YR 6/8)	
SS X		3-5-6 1	7 172.2	45—	SAA except yellowish b	orown (10YR 5/6)	
ss	<b>□Δ0</b>	5-8-7 1	2		*SAND, with silt (SP-S (10YR 5/8), damp, med		
	ED BY: A. TAYLOR ED BY: P. DEPREE		SITE		Units 3 & 4 COL Proje Final Log	ect	B-3005



GE	EOTECHNICAL LOG		JEC gtl		3 & 4	· C	JOB NO. SHEET N OL Project 6141-06-0286 2 0	O. F 3	HOLE NO. <b>B-3005</b>
SAMP. TYPE AND NO.	○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	2nd 6" ⊖ 3rd 6" ⊐	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	WAT CHA DRIL LAB	ES ON: ER LEVELS, RACTER OF LING AND ORATORY TING
14	20 40 60 80			167.2			medium grained, low plasticity		
SS 15		2-3-4	18	162.2_	55—		CLAY, silty (CL-ML)- Olive yellow (2.5Y 6/6), dry to damp, medium stiff, low plasticity, -HCL		
SS 16		4-8-8	15	102.2_	60-		SAND, clayey (SC)- Light yellowish brown (10YR 6/4), damp, medium dense, fine grained, low plasticity		
SS 17	8	-14-19	10	152.2_	65—		SAA except light yellowish brown (10YR 6/6), dense, fine to medium grained, contains SAND and CLAY seams, -HCL		
SS 18		3-3-4	18	132.2_	70-		CLAY, silty (CL-ML)- Olive yellow (2.5Y 6/6), dry to damp, medium stiff, low plasticity, contains SAND seams, -HCL		
SS 19		3-4-5	18	142.2	75—		SAA except pale yellow (5Y 7/3)		
SS 20		6-6-6	17	142.2_	80-		SAND, clayey (SC)- Olive gray (5Y 4/2), damp, medium dense, fine to medium grained, low plasticity, contains CLAY seams, -HCL	Rear 75.0	ned borehole to feet
SS 21		50/1"	0.5	137.2_	85—		SAND, clayey (SC)- Pale yellow (5Y 8/4), damp, very dense, fine to medium grained, low plasticity, contains shell fragments and trace phosphate grains, +HCL	Top Lime of 82	of Utley stone at a depth .0 feet
SS 22		50/2"	2	132.2_	- - 90—		CLAY, silty, (CL-ML)- Greenish gray (GLEY1 5/10GY), damp, hard, contains trace shell fragments and phosphate grains, +HCL	Wate	er level depth at
UD 1	0		9		95—		SAA except greenish gray (GLEY1 4/10GY to 4/10Y)	Pitch Water	of 2/9/07 = Top of ng
SS 23	A ○ + ± 109 ,	-13-15	18	117.2_	100-		*SILT (MH) - Greenish gray (GLEY1 5/10GY), damp, hard, contains trace shell fragments and phosphate grains, +HCL		
				SITE	v	ogtl	e Units 3 & 4 COL Project Final Log	HOLE	NO. B-3005



GE	EOTECHNICAL LOG	<u>•</u>	OJEC Natl		3 & 1	C	JOB NO. SHEET NO. OL Project 6141-06-0286 3 OF	
SAMP. TYPE AND NO.	■ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	2nd 6" O-5 3rd 6" 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 24	× •	50/5"	9		110-		SAA except greenish gray (GLEY1 5/5GY), dry to damp	
UD 2			10.5		- - - 115		SAA except greenish gray (GLEY1 4/10GY), damp, contains cemented SAND with limestone	Pitcher  Water level depth at end of 2/12/07 = Top
UD 3	0		23	97.2_	120-		SAA except greenish gray (GLEY1 6/5GY)	of Casing  Pitcher  Water level depth at beginning of 2/13/07 = 32.0 feet
SS 25	= +0+	50/2"	5	71.2_	125-		*CLAY, with sand (CH)- Greenish gray (GLEY1 5/10Y, damp, hard, contains trace shell fragments and phosphate grains, +HCL	
SS 26		13-50/6"	16		130-		SAA except greenish gray (GLEY1 5/5GY)	
SS 27		18-17-19	18	02.2	135—		SAA	
UD 4	<b>⊕</b> + □		28.5	82.2_	140-		**CLAY (CH)- Greenish gray (GLEY1 5/5G to 5/5GY), damp, hard, contains trace shell fragments, +HCL	Pitcher
SS 28		9-17-50/5"	18		145-		SAA except greenish gray (GLEY1 7/10Y), dry to damp, contains fine grained SAND traces	
SS 29		12-15-14	18	68.7_	150-		SAA except very stiff	Top of Still Branch Formation at a depth of 150.5 feet
SS 30		22-27-30	14	64.2_	155—		SAND, silty (SM)- Very dark greenish gray (GLEY! 3/10Y), damp to moist, very dense, fine grained, -HCL Boring terminated at 155 feet	of 150.5 feet
				SITE	V 222 of	_	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3005</b>



GI	ΕO	TECHNIC	CAL LO		OJEC		2 Rr /	1 ((		ов NO. <b>6141-0</b>	6 0286	SHEET NO		HOLE NO. <b>B-3006</b>
LOGG						DINATES	3 & 4		JL Froject	0141-0	BEGUN	I OF	COMPL	
DRILL	FR	A. Rei	mer		RILI	MAKE AND			25.6 E 62192: HOLE DIAMET		11/30/20 HAMMER SE		12/7/2	2006 TOTAL DEPTH
	,	Christian-M					ME-		3 Inc			200587		155.0
GROL	IND E	$\nabla$ /	. GROUND WA	TER SIT	E:				Vogtle Electri	c Gene	ratino Pl	ant - Wa	vnesho	ro. GA
_									v ogtie Electri	e Gene	ruung ri	unt vvu	Tesso	10, 0/1
SAMP. TYPE AND NO.	SAMPLE	► N-VALUE (S ○ WATER CO + ATT. LIMITS □ FINES % 20 ▲ 40	NTENT %	1st 6" -z 2nd 6" 0 3rd 6" 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION (* = field class laboratory testir of sample by fie	ification adjust	ted based on	ION		LEVELS, CTER OF IG AND ATORY
SS 1	M	20 4 40		5-16-12	7	216.1		$\boxtimes$	SAND AND GR	-	-		Top of F	fill at a depth et
SS 2	X	^		7-21-25	12	215.1_			SAND, silty (SM dry, dense, nonpl	1)- Dark i lastic, me	red (2.5YR dium graine	3/6), ed /	Top of E Group at	Barnwell t a depth of
SS 3 SS	X			6-10-23	15 17		5-		SAND, silty, cla (7.5YR 4/6), dry, medium grained SAA except red ( SAA	yey (SC-) , dense, n (2.5YR 4)	SM)- Strong conplastic, fi	g brown ne to	1.5 féet	
4		_		8-15-18	16		-							
SS 5	X			8-13-18	10		10-		SAA except dry	to moist			Installed	casing to a
SS 6	X	<b>A</b>		9-15-16	13.5				SAA except dry				depth of Water le	10.0 feet evel depth at
SS 7				8-14-16	14		15-		SAA				Ground Water le	1/30/06 = surface evel depth at ag of 12/01/06
SS 8	X	<b>A</b>		7-10-15	13	195.6	20-		SAA except med	lium dens	se			
SS 9	X			8-12-17	14.5	190.6_	25-		*SAND, silty (S) 5/6), damp, medi coarse grained, c 5/6) clay lenses	M)- Stroi ium dense ontains st	ng brown (7 e, nonplastic trong brown	.5YR s, fine to (7.5YR		
SS 10	X	<b>A</b>		6-10-11	16		30-		SAND, silty, cla brown (10YR 5/6	yey (SC-6), damp,	SM)- Yellov very stiff, n	wish conplastic		
SS 11	X	<b>A</b>		6-8-9	15	180.6	35-		SAA except yello medium dense, fi	ow (10YI ine to me	R 6/6), dry to dium graine	o damp, d		
SS 12	X	<b>A</b>		3-6-10	14	175.6	40-		CLAY, with san	<b>nd (CL)-</b> 6), moist,	Light yellow very stiff, n	vish onplastic	Water le	evel depth at $2/1/06 =$
SS 13	X						45-	-	SAMPLE NOT	TAKEN	·		Ground Water le beginnin = 39.8 fe	evel depth at ag of 12/5/06 eet
SS	X	<b>A</b>		4-8-8	17	170.6_	-		*SAND, with sil	lty clay (S	SP-SC)- Bro	ownish (5YR		
		D BY: A. TAYLOR BY: P. DEPREE				SITE	V	ogtl	e Units 3 & 4 COI Final Log	L Project			HOLE NO	3006
						<u> </u>	<del>223 o</del>	f <del>72</del> 4						



GE	Ξ(	ЭТІ	ECH	NIC	AL	LOC	<u> </u>	OJE(		3 & 4	l C	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 OF	
SAMP. TYPE AND NO.	SAMPLE	0 +	N-VALU WATER ATT. LII	CON MITS 4	TENT 9		1st 6" -r 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14			20 4	0 6	80 8	0				-		5/6), damp, medium dense, nonplastic, fine to coarse grained, slightly lignitic	
SS 15	X	7	<b>A</b>				7-12-18	16.5		55—		SAA except brownish yellow (10YR 6/6) and yellow (10YR 8/6), -HCL	
SS 16	X	7	<b>A</b>				9-15-19	15	155.6	60-		SAA except brownish yellow (10YR 6/6) and yellow (10YR 7/6), damp to moist, dense	
SS 17	X	7 <b>A</b>					3-4-7	18.5	150.6	65 —		CLAY, sandy (CL)- Pale yellow (2.5Y 8/3), damp to moist, stiff, low plasticity, fine to medium grained SAND, -HCL	
SS 18	X	7	<b>A</b>				8-14-16	21	145.6	70-		SAND, with silty clay (SP-SC)- Pale yellow (2.5Y 8/2), damp, medium dense, nonplastic, contains shell fragments, fine to medium grained, +HCL	
SS 19	X	7	<b>A</b>				6-9-23	22	143.0_	75 —		CLAY, silty (CL-ML)- Pale yellow (2.5Y 8/2), damp, hard, nonplastic, contains shell fragments, +HCL	Water level depth at end of 12/5/06 =
SS 20	×	=				_	50/2"	1	139.1_	80-		CLAY, silty (CL-ML)- Pale yellow (2.5Y 8/2), damp to moist, hard, nonplastic, contains shell fragments, +HCL	Ground surface  Water level depth at beginning of 12/6/06 = 64.75 feet Top of Utley Limestone at a depth of 78.5 feet
SS 21	X	7				_	12-50/4"	10.5		85 —		SAA except pale yellow (2.5Y 8/2 and 8/4) and olive yellow (2.5Y 6/6), moist	of 78.5 feet Advanced casing to a depth of 15.0 feet
SS 22	X	7				_	12-26-50/5"	12	129.6_	90-		*SILT, with sand (MH)- Greenish gray (GLEY1 5/5GY), dry, hard, contains sandy and cemented layers, +HCL	Top of Blue Bluff Marl at a depth of 88 feet
SS 23	X	7	0+			•	29-35-50	26		95—		SAA	
SS 24	X	7			<b>A</b>		16-36-38	27	115.6	100-	-       -       -	SAA except contains shell fragments	
SS 25	X	7		<b>A</b> — -		- 🗆	15-17-27	27	115.6_	105-		*SILT (MH) - Greenish gray (GLEY1 5/5GY), dry, hard, contains sandy and cemented layers, +HCL	
	_	1	:		:				SITE	V 224 of	_	e Units 3 & 4 COL Project Final Log	HOLE NO. B-3006



GE	EC	OTECHNICAL LOC	<u> •</u>	OJEC ogtl		3 & 4	C	JOB NO. SHEET NO. DL Project 6141-06-0286 3 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	lst 6"	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	×		50/3"	3		110-		SAA	
SS 27	X	<b>A</b>	19-26-36	24		115-		SAA	
SS 28	$\boxtimes$		28-50/2"	13		120-		SAA	
SS 29	X		6-50/5"	10		125—		SAA	Water level depth at end of 12/6/06 = Ground surface
SS 30	X	⊕-+ □ •	15-50/3"	16	90.6_	130—		*CLAY (CL)- Greenish gray (GLEY1 6/10Y), dry, hard, nonplastic, contains sandy and cemented layers, +HCL	Ground surface  Water level depth at beginning of 12/7/06 = 70.25 feet
SS 31	X	<b>A</b>	11-12-23	23		135—		SAA	
SS 32	X	<b>A</b>	16-22-26	27		140—		SAA	
SS 33	X	O+=-+	45-38-50/5"	27	70.6	145—		*SAA except contains sandy and cemented layers, +HCL	
SS 34	X	<b>★</b> + □	9-12-13	27	70.6_ 65.6_	150—		*CLAY, with sand (CH)- Greenish gray (GLEY1 6/10Y), dry to damp, very stiff, contains shell fragments and sandy and cemented layers	
SS 35	X	<b>A</b>	29-33-37	18	62.6_	155—		SAND, silty (SM) - Very dark greenish gray (GLEY1 3/5GY), damp, very dense, nonplastic, fine to medium grained, -HCL Boring terminated at 155 feet	Top of Still Branch Formation at a depth of 152 feet
					CITE				HOLENG
					SITE	V 225 of		e Units 3 & 4 COL Project Final Log	B-3006



GEOT	ECHNICAL LOG	<u>•</u>	OJEC		201	C	OI Dualant	JOB NO.	06.0396	SHEET NO		HOLE NO.
LOGGED BY		, v		DINATES	3 & 4	C	OL Project	0141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	B-3007 LETED
	A. Reimer				N 114	27	18.5 E 6218	76.7	11/15/20	06	11/29	
DRILLER	N	D	RILL	MAKE AND			HOLE DIAM		HAMMER SE		ER	TOTAL DEPTH
GROUND EL.	Christian-MACTEC  DEPTH/EL. GROUND WATE	R SITE	=-	C	ME-7	75	31	nches		200587		159.8
220.8	DEF III/EE. GROOND WATE □ / □ /	.K   5111					Vogtle Elect	ric Gene	erating Pla	ant - Wa	ynesbo	oro, GA
		<u> </u>										-
1 % 1 1		N-COUNT	RECOVERY (in)	Z	Ħ	SS					NOTES	
AMP. TYF AND NO. SAMPLE +	WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ĒR	ATI(	Z ⊤	)Hc	DESCRIPTIC	N AND CI	ASSIFICAT	ION		R LEVELS, ACTER OF
AMP AND SAN	- ATT. LIMITS %	3 2	8	ELEVATION IN FEET	DEPTH IN	GRAPHICS	( * = field cl	assification adjus				NG AND ATORY
\sigma \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	FINES %		R	Ш			of sample by	field geologist/e	engineer)		TESTIN	
SS V	20 40 60 80	6-9-10	10	220.8	_	. •	GRAVEL				Top of	Fill at a depth
1 M	<b>A</b>	8-10-12	12.5	219.8_	-	1	SAND, silty (S	SM)- Red (	(10R 4/8), dr	y,	of 0.0 f	eet. Barnwell
					-		medium dense non-plastic SAA except m	,	C	<i>'</i>	Group a	at a depth of
$\left \begin{array}{c} SS \\ 3 \end{array}\right $		12-13-12	15		5—		SAA except iii SAND SAA	ottied with	i iigiit ieu (10	K 0/0)		
ss 🗸	<b>A</b>	11-12-16	12		_		SAA					
4					-							
SS 5	<b>A</b>	7-7-9	14		-		SAA except re to coarse grain	d (2.5 YR	4/6), dry to d	amp, fine		
ss	<b>A</b>	6-8-9	14		10-		_	_	-			
6					-		SAA except re brown (10YR	5/8), damp	4/0) and yen	OWISH		
ss 🗸	<b>A</b>	8-5-9		206.3_	_		SAA					
7					15-		SAND, silty, c	layey (SC- brown (10	-SM)- Red (2 YR 5/8), mot	2.5 YR) tled,		
				203.8_	-		damp, medium low plasticity	dense, fin	e to médium	grained,		
ss 🗸	<b>A</b>	12-14-17	14		-		*SAND silty	(SM)- Red	dish vellow (	7 5VR		
8					20-		*SAND, silty (6/8) and light y dense, fine to d	ellow brov	wn (10YR 7/2 ned. subround	8), damp,		
					-		non-plastic, lig	nitic, calca	areous minera	alization		
	<u>.</u>	7.60	,,		-							
		7-6-8	12		25-		SAA except br dense, contains	own (7.5Y s 1/2" thick	R 5/6), medi c clay lenses	um		
				193.8_	-							
				175.6_	-							
		1-2-4	17.5		-		CLAY, sandy damp, loose, fi	(CL)- Lig	ht brown (10	YR 7/6),		
10					30-		aump, 10050, 11	Similion	, 1011 piastici	~ <i>J</i>		
				188.8_	-		<u> </u>					
ss 🗸 🕯	<b>\</b>	4-5-7	18		=		SAND, silty, c	layey (SC	-SM)- Light			
11					35—		medium dense	, fine to me	7/6), damp to edium graine	moist, d, low to		
					_		moderate plast	ıcıty				
ss 🗸 🔺		6-4-3	15	181.8_	-		SAA					
12					40-		CLAY (CH) - 6/6), moist, loo	Light yello	owish brown	(10YR		
				178.8_	=							
_     _		2.1.			_		*SAND, with yellowish brow	silty clay ( vn (10YR	( <b>SP-SC)-</b> Lig 7/6), moist, lo	ht oose, low		
$\left \begin{array}{c} SS \\ 13 \end{array}\right $		3-4-5	20		45 —		plasticity, very	tine to fin	e grained			
					-							
					-							
ss 🛮 🗆	<b>^</b>	7-6-7	15.5		-		SAA except m	edium den	se, fine to me	edium		
	BY: A. TAYLOR			SITE	V	ogtl	e Units 3 & 4 CO		t		HOLE NO	
REVIEWED B	Y: P. DEPREE				226 of	<del>72</del> 4	Final Log	<u> </u>			B	-3007



GE	ΞC	TECHNICAL LOC	•	OJE(		3 & 4	C	DL Project   JOB NO.   SHEET NO.   SHEET NO.   2 OI	
SAMP. TYPE AND NO.	SAMPLE		1st 6" -7 2nd 6" 00 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40 30 30			168.8_	-			
SS 15	X	<b>A</b>	15-40-47	13.5		55—		SAND (SP) - Brownish yellow (10YR 6/6) and tan (2.5Y 8/4), damp, very dense, fine to coarse grained, subrounded, non-plastic, slightly lignitic	
SS 16	X	<b>A</b>	3-4-19	18	162.8_ 158.8_	60-		SAND, with clay (SP-SC)- Light tan (12.5Y 8/2) and light yellowish brown (2.5Y 7/6), damp, fine to medium grained, contains shell fragments	
SS 17	X	<b>A</b>	9-17-15	24	154.8_	65—		CLAY, silty, sandy (CL-ML)- Light brown/tan (2.5YR 8/2), moist, hard, contains shell fragments up to 1" in diameter	
SS 18	X	<b>A</b>	6-9-18	18		70-		CLAY, silty with sand (CL-ML)- Light brown/tan (2.5YR 8/2), moist, very stiff, contains shell fragments up to 0.2" in diameter	
SS 19	X	•	14-21-21	16		75-		SAA except light brown/tan (2.5YR 8/2) and pink (10R 8/2), mottled, damp to moist, hard, contains shell fragments < 0.1" in diameter	Water level depth at end of 11/15/2006 = Ground surface
SS 20	×		27-10-50/4"	12	142.8_	80-		CLAY, silty with sand (CL-ML)- Light brown/tan (2.5YR 8/2) and pink (10R 8/2), mottled, damp, hard, contains pebble size shell fragments	Top of Utley Limestone at a depth of 78.0 feet. Water level depth at beginning of 11716/2006 = 32.74
SS 21	×		50/3"	0	134.3_	85-		NO RECOVERY	feet Loss of approximately 100 gallons of drilling flluid during drilling between depths of 75.0 and 80.0 feet.
SS 22	X		20-34-50/4"	21	128.8_	90—	-	SILT, with sand (ML)- Greenish gray (GLEY1 5/5GY), dry, hard, non-plastic	installed 4 inch casing to a depth of 80.0 feet. Lost 450 gallons of drilling fluid during
SS 23	X	▶ +	12-21-20	22	128.8_	95—		*SILT (MH)- Greenish gray (GLEY1 5/5GY), dry to damp, hard	casing installation. Loss of approximately 80 gallons of drilling fluid at a depth of 88.5 feet. Top of Blue Bluff Marl at a depth of 86.5 feet. Added an additional 5
SS 24	X	<b>A</b>	16-18-19	21		100-		SAA except contains shell fragments < 0.25" in diameter	Bottom of casing now at a depth of 85.0 feet. Water level depth at end of 11/16/2006 =
SS 25	_		50/1"	1	113.8_	105-		SAA	Lost approximately 60 gallons of drilling fluid during drilling between depths of 86.5 and 93.5 feet. Water level depth at beginning of 11/27/2006 = 67.0
		· · · · ·			SITE	V 227 of	_	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3007</b>



GE	ΞC	TECHNICAL LO	$\sim$	ojec ogtl		3 & 4	CC	JOB NO. SH DL Project 6141-06-0286	IEET NO.	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>7</del> 2nd 6" -0 3rd 6" <u>-</u> 2	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	I	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	₩	12-18-22	23	108.8_	110-		*CLAY (CH)- Greenish gray (GLEY1 5/5GY), dry to damp, hard		feet Water level depth at end of 11/27/2006 = Ground surface Water level depth at beginning of 11/28/2006 = 57.33
SS 27	×		50/2"	1.5	103.8_	115—		SILT, with sand (CL-ML)- Greenish gra (GLEY1 5/5GY), dry, hard, contains ceme layers and shell fragments <0.25" in diam	ay ented eter	feet
SS 28	X	•	26-18-42	20		120-		SILT (ML) - Greenish gray (GLEY1 6/10 dry, hard, cemented, contains shell fragme <0.25" in diameter, calcareous mineralization	OY), ents tion	
SS 29	X	<b>A</b>	7-10-14			125-		SAA except, dry to damp, very stiff, contashell fragments < 0.1" in diameter	ains	
SS 30	X		10-50/3"	16.5		130-		SAA except hard		Loss of circulation at a depth of 131.0 feet. Lost approximately
SS 31	×		50/4.5"	7		135-		SAA except contains shell fragments < 0. diameter	1" in	Lost approximately 120 gallons of drilling fluid. Obtained good fluid return at a depth of 133.0 feet.
SS 32	X	<b>A</b>	12-12-22	22		140-		SAA except does not contain shell fragme +HCL	ents,	Loss of approximately
SS 33	X	<b>A</b>	18-37-35	20	73.8_	145-		SAA		Loss of approximately 80 gallons of drilling fluid from depths of 141.0 to 142.5 feet. Loss of approximately 50 gallons of drilling fluid from depths of
SS 34	X	<b>A</b>	11-12-21	23		150-		*CLAY, silty (CL-ML)- Greenish gray (GLEY1 7/10Y), damp, hard, +HCL		145.0 to 147.0 feet.
SS 35	X	<b>A</b>	12-18-31	21.5	<b>62.2</b>	155—		SAA		Water level depth at end of 11/28/2006 = Ground surface
SS 36	X		26-48-50/4"	16	63.3_ 61.0_			SAND, silty (SM)- Very dark greenish gr (GLEY1 3/5GY), moist, very dense, fine to medium grained, well graded, contains tra CLAY Boring terminated at 159.83 feet.	ray to aces of	Top of Still Branch at a depth of 157.5 feet. Water level depth at beginning of 11/29/2006 = 59.6 feet
					SITE	Vo	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-3007</b>



GE	ΩТ	ECHNIC	CAL LO	C	OJEC					JOB NO.		SHEET NO		HOLE NO.
		CHIN	CAL LO	Ψ,			3 & 4	CO	OL Project	6141-0	06-0286 BEGUN	1 OF	3 COMPL	B-3008
LOGGED	BY	A. Rei	mar		OOR	DINATES	N 114	242	25.4 E 6217	773 0	11/8/200	16	11/14	
DRILLER	1	A. Ku		D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
	C	hristian-N				C	ME-	75	3 1	nches		200587		155.0
GROUNE 217		DEPTH/EL ♀ / ▼ /	. GROUND WA	TER SITI	E:				Vogtle Elect	rio Con	rating Dl	ant Wa	vnosho	ro CA
217		<u>¥</u> /							v og ne Elect	iic Gene	trating 11	ant - wa	ynesuc	no, GA
SAMP. TYPE AND NO. SAMPI F	0 +	N-VALUE (S WATER CO ATT. LIMITS FINES %	NTENT %	1st 6" -5- 2nd 6" OO 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory of sample t	DN AND CI classification adju- testing data and/or by field geologist/	sted based on	ION	CHARA DRILLII	R LEVELS, ACTER OF NG AND ATORY
SS X		20 40	60 80	10-17-20	16	217.9 216.7		. •	GRAVEL				Top of	Fill at a depth
1 SS 2 SS 3	7	□ <i>Δ</i>	<b>\</b>	26-28-25 10-11-12	15.5	210./_	- - -		*SAND, clayed dense, fine to SAA except lo traces of CLA	medium gra	ained, non-pl	astic	of 0.0 fo Top of 3 Group a 1.2 feet	Fill at a depth eet. Barnwell it a depth of
SS 4	7			7-11-14	16		5 - -		SAA except lo					
SS 5	7	<b>A</b>		6-9-12	15		10-		SAA except regrained, media	ed (10R 5/8 um dense	s), fine to coa	rse		
SS S				6-11-13	15.5	204.9	-		SAA except d	amp, medit	ım dense, fin	e grained,		
SS 7	, ,	<b>A</b>		6-13-14	15	201.92	15—		SILT, sandy (very stiff, lign	(ML)- Red	(10R 5/8), d eous minerali	amp, ization		
SS 8	7	<b>A</b>		7-11-16	13	198.9_	20-		SAA except mplasticity, con *SAND, with 7/8), damp, m non-plastic	noist, stiff, l tains traces silt (SP-SI edium dens	low to mediu of CLAY M)- Light red se, fine grains	m 1 (2.5YR		
SS 9		<b>,</b>		7-7-5	11	190.9_	25—		SAA reddish b medium grain	prown (7.5) ed, slightly	YR 5/8), moi lignitic	st, fine to	end of 1	evel depth at 1/8/2006 = surface
SS 10	•	₩	+	3-3-5	14		30-		*SAND, claye (2.5Y 6/6), da plasticity	ey (SC)- Li mp, loose,	ght reddish t fine grained,	orown low	Water l	evel depth at ng of 06 = 24.0 feet
SS 11	<b>A</b>			3-4-8	14		35-		SAA except li medium dense to very fine gr	e, low to mo	(10YR 7/6), oderate plasti	moist, city, fine		
SS 12	, <b>^</b>	<b>.</b> .		3-4-8	17		40-		SAA except d calcareous she	amp, low p ll fragment	lasticity, conts	tains		
SS X	<b>^</b> • [	] +-+		2-3-3	21	170.9	45—		SAA except lo	oose, fine g	rained			
ss		<b>A</b>		5-8-10	14		- - -		SAND, silty (	SM)- Light n dense, fin	t brown (10Y	R 7/6), grained,		
		Y: A. TAYLOR Y: P. DEPREE				SITE	V	ogtl	e Units 3 & 4 C Final Log		t		HOLE NO	-3008
v :_ v V	וט כ_	SEI NEE				<u> </u>	229 of	724		<del>-</del>				2000



GE	EOTECHNICAL		OJEC N <b>otl</b>		3 & 4	l CO	JOB NO.   5 DL Project   6141-06-0286	SHEET NO.	
SAMP. TYPE AND NO.	L FINES %	%	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATIO  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 60 8	0		165.9_	-		non-plastic, well graded, slightly lignitic	c 	
SS 15		7-11-19	14.5	160.9_	55-		*SAND, with clay (SP-SC)- Light brov (10YR 7/6), damp, dense, medium to co grained, subrounded, non-plastic, slight lignitic	wn parse ly	
SS 16		6-7-8	17	156.9_	60-		*SAND, clayey (SC)- Light brown (10 7/6), damp to moist, medium dense, cor shell fragments  SAND, sitty, clayey (SC-SM)- Light ta		
SS 17		1/1.2'-19/0.3	18	153.9_	-		SAND, silty, clayey (SC-SM)- Light ta white (2.5YR 8/2), damp, coarse graine subrounded, contains shell fragments CLAY, silty (CL-ML)- Light brown (2 8/2), and pink (10R 8/2), mottled, damp		
17				150.9_	65		8/2), and pink (10R 8/2), mottled, damp moist, very stiff, medium plasticity	o to	
SS 18		11-11-17	27		70-		CLAY, with sand (CL)- Light brown (8/3), damp, very stiff, contains fine to n grained SAND, contains shell fragments	2.5YR nedium s	
SS 19	<b>A</b>	9-12-19	26		75—		SAA except light brown (2.5Y 8/4), corvery fine to fine SAND	ntains	
SS 20	X	5-50/4"	12		80-		SAA except hard, 50% of sample is con of shell fragments		Loss of circulation and approximately 25 gallons of drilling fluid at a depth of 80 feet. Continued drilling and
SS 21	<b>A</b>	11-18-9	16	130.9	85 –		SAA except light brown (2.5YR 7/4), covery fine to fine SAND, low plasticity		lost 125 additional gallons of drilling fluid.  Installed casing to a depth of 85 feet.
SS 22	X	17-50/5"	18	125.9	90-	-	SILT, with sand (ML)- Greenish gray (GLEY1 5/5GY), dry to damp, hard, covery fine to fine SAND, non-plastic	ntains	Water level depth at end of 11/9/2006 = Ground surface Top of Blue Bluff Marl at a depth of 87.0 feet. Water level depth at beginning of
SS 23	X	14-50/2"	12		95 <del>-</del>		*SILT (MH) - Greenish gray (GLEY1 5/5GY), dry to damp, hard, contains fin grained SAND		beginning of 11/10/2006 = 10.64 feet
SS 24		16-16-22	23		100-		SAA except greenish gray (GLEY1 6/10	0Y)	
SS 25		50/2"	4		105-		SAA except contains shell fragments 0diameter	5" in	
		:		SITE	V 230 of	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-3008</b>



C		TECUNICAL I O		OJEC					JOB NO.	SHEET NO		HOLE NO.
GI	_(	OTECHNICAL LO	V	ogtl	e Units	3 & 4	C	OL Project	6141-06-0286	<b>3</b> OF	3	B-3008
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>7</del> 2nd 6" O 3rd 6" -4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field c	DN AND CLASSIFICAT classification adjusted based on sesting data and/or re-examination by field geologist/engineer)	ION	WATE CHAF DRILI	ES ON: ER LEVELS, RACTER OF LING AND PRATORY ING
SS 26	X		22-19-50/2"	16		110—		SAA				
SS 27	×	++	50/3"	5		- - 115—		SAA			Water	level depth at f 11/10/2006 = ad surface
SS 28	×	++	50/5"	6.5		120-		SAA			Water	e level depth at ning of 2006 = 50.1
SS 29	X		13-22-50/4"	21	95.9_	125—		*CLAY (CH) 6/10Y), dry to grained SAND SAA	- Greenish gray (GLEY damp, hard, contains fir	 1 ne		
SS 30	X		36-50/5"	16		130-		SAA except gr	reenish grey (GLEY1 7/	10Y)		
SS 31	X	<b>A</b>	11-23-32	24		135—		SAA				
SS 32	X	4	12-17-22	21		- - 140—		SAA except gi contains fine g	reenish grey (GLEY1 6/ grained SAND	10Y),		
SS 33	X	<b>A</b>	16-21-42	22		- - 145—		SAA				
SS 34	X	<b>A</b>	7-11-20	25	65.9_	150-		SAA except vo	ery stiff			
SS 35	X	<b>A</b>	22-31-35	15	62.9_	155—		SAND, silty, of gray (GLEY1 6/5G medium graine Boring termina	clavey (SC-SM)- Light; 8/5GY) and greenish gr ), damp, very dense, fin ed ated at 155 feet	greenish ey e to	Top o a dept	f Still Branch at h of 152.0 feet.
					SITE	V	ogtl	e Units 3 & 4 Co Final Log			HOLE I	NO. <b>3-3008</b>



GE	OTECHNICAL LOG	~	OJEC ngtl		3 & 4	CC	OL Project	JOB NO.	06-0286	SHEET NO.		HOLE NO. <b>B-3009</b>
LOGGE	O BY			DINATES				ı	BEGUN	1 01	COMPL	
DRILLER	M. Harvey		DILL	MAKE AND			84.5 E 6219 HOLE DIAM		12/7/200	<b>)6</b> ERIAL NUMBI	12/13/	
DRILLER	Warren-MACTEC	ا ا	KILL		ME-7			nches		ERIAL NUMBI 211797	EK	153.9
GROUN	D EL. DEPTH/EL. GROUND WATI	ER SITE	E:		,14112 /	<u> </u>	71	Henes		211///		130.7
21	<b>7.9</b> ♀ / .						Vogtle Elect	ric Gene	erating Pl	ant - Way	ynesbo	ro, GA
SAMP. TYPE AND NO.	○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" ±	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC  (* = field cl laboratory te of sample by	lassification adju-		ION	CHARA	R LEVELS, CTER OF NG AND ATORY
SS	20 40 60 80	6-7-8	18	217.9			*SAND, silty (	(SM)- Red	(2.5YR 4/6)	), dry,	Top of l	Barnwell
		14-12-12	18		-		SAA except re	d (2.5YR 5	5/8)		0.0 feet	t a depth of
SS 2 SS 3	<b>A</b>	7-7-8	12		5-		SAA except re	d (2.5YR 4	4/8)			
SS 4		13-12-12	15		- -		SAA					
SS 5	<b>A</b>	7-9-10	12		10-		SAA except re	d (2.5YR 4	4/6)			
SS 6	<b>A</b>	8-6-5	15		- -		SAA except re	d (10R 4/6	), fine to coa	ırse		
SS 7	<b>A</b>	6-7-9	12		-  -		SAA					
SS 8	<b>A</b>	10-10-9	9	195.9_	20-		SAA except br	rown (7.5Y	TR 5/8), dry,	medium		
SS 9		10-10-12	9		25-		* <b>SAND, with</b> 5/8), dry, medi	silt (SP-SI um dense	<b>M)-</b> Brown ('	7.5YR		
SS 10	<b>A</b>	5-7-8	10		30-		SAA except br	ownish ye	llow (10YR	6/6)		
SS 11	<b>A</b>	4-5-6	15		35-		SAA except pa	ale yellow	(2.5Y 7/4), d	amp		
SS 12 2	<b>A</b>	6-7-7	11	175.9	40-		SAA					
SS 13	<b>A</b> □	2-3-5	15	113.9_	45—		* <b>SAND, silty</b> (6/8), moist, loc	———— ( <b>SM)</b> - Bro	wnish yellov	v (10YR		
ss	<b>A</b>	10-12-15	7		- -		SAA except ye	ellow (2.5Y	7/6), -HCL			
PREPAR	<u>`\</u>			SITE	V	ogtle	e Units 3 & 4 CO				HOLE NO	
REVIEW	/ED BY: P. DEPREE				(		Final Log				B	-3009



GE		TECHNICAL LO		OJEC ogtl		3 & 4	C C	JOB NO.   SHEE* OL Project   6141-06-0286   2	NO. OF <b>3</b>	HOLE NO. <b>B-3009</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	lst 6" -z 2nd 6" O 3rd 6" _ I	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NC W/ CH DF LA	OTES ON: ATER LEVELS, IARACTER OF EILLING AND BORATORY STING
SS 15	X	<b>A</b>	20-20-15	8		- - - - 55—		SAA except yellow (10YR 8/8), wet, dense		
SS 16	X	<b>A</b>	10-10-12	6		60-		SAA except very pale brown (10YR 8/4), medium dense		
SS 17	X	<b>A</b>	8-28-20	18	154.4_	65—		*SHELL HASH, clavey (GC)- White (5Y 8/1), moist, dense, +HCL		
SS 18	X	<b>A</b>	7-12-15	18	150.9_ 145.9	- - 70-	<b>0</b> //,	SAND, silty (SM)- Pale yellow (2.5Y 8/2), damp, medium dense, contains shell hash, +HCL		
SS 19	X	<b>A</b>	8-10-15	18	143.9_	75—		SAND (SP) - Pinkish white (7.5YR 8/2), moist to wet, medium dense, fine grained		
SS 20	×		50/6"	8		80-		*SHELL HASH, silty (GM)- Pale yellow (2.5Y 7/4), wet, very dense, +HCL	Lii of Wa	p of Utley nestone at a depth 77.0 feet ater level depth at 1 of 12/07/06 =
SS 21	×		50/5"	18	135.9_	- - 85 —	<del>                                     </del>	SILT (ML) - Pale olive (5Y 6/3), damp, hard +HCL		bund surface
SS 22	×		50/4"	18	129.4_	90-		*CLAY, with sand (CH)- Greenish gray (GLEY1 5/5GY), damp, hard, +HCL	To Ma	p of Blue Bluff Irl at a depth of 5 feet
SS 23	X	<b>A</b>	15-15-20	18		95—		SAA		
SS 24	×	⊕+□ ,	50/4"	16		100-		SAA		
SS 25	X	<b>A</b>	12-14-15	18		105—		SAA except very stiff		
		<del>;</del> <del>;</del> <del>;</del>	1		SITE	V 233 of	_	e Units 3 & 4 COL Project Final Log	НО	B-3009



GE	EC	TECHNICAL LO	$\frown$	OJE(		3 & 4	l CO	JOB NO. SHEE OL Project 6141-06-0286 3	T NO.	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6"00 3rd 6" 1z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	×	,	50/5"	12		110-		SAA except hard		Water level depth at end of 12/12/06 =
SS 27	×	,	50/3"	10		115-		SAA except greenish grey (GLEY1 5/1/10Y		Ground surface  Water level depth at beginning of 12/13/06 = 10 feet
SS 28	×		50/5"	18		120-		SAA		
SS 29	×		50/4"	11		125-		SAA		
SS 30	X	<b>(A</b> −−+ □	10-12-14	18	90.9_	130-		*CLAY, sandy (CL)-Greenish gray (GLEY 6/1/10Y), damp, very stiff, +HCL	1	
SS 31	X	<b>A</b>	20-20-20	18		135-		SAA except hard		
SS 32	×		50/4"	18		140-		SAA		
SS 33	X	<b>A</b>	13-16-24	18		145-		SAA		
SS 34	×		50/3"	0	69.4_	150-		NO RECOVERY		Top of Still Branch Formation at a depth of 148.5 feet
SS 35	×		50/5"	5	65.9_ 63.9_	-		SAND (SP) - Very dark gray (GLEY1 3/N), wet, very dense, -HCL Boring terminated at 153.92 feet		
					SITE	V	ogtl <sup>/</sup>	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-3009</b>



	PROJEC		201			OB NO.	( 020(	SHEET NO		HOLE NO.
		DINATES	3 & 4	CC	OL Project 6	6141-00	BEGUN	<b>1</b> OF	COMPL	B-3010 ETED
R. Clark			N 114				3/3/200		3/5/2	
DRILLER Bilbrey-MILLER DRILLING	DRILL	MAKE AND	MODE ME-8		HOLE DIAMETE		HAMMER SE	RIAL NUME <b>270256</b>	SER	160.0
GROUND EL. DEPTH/EL. GROUND WATER S	ITE:		TVILL (		'					
219.7 💆 /	1 1	<u> </u>		,	Vogtle Electric	Gener	rating Pla	ant - Wa	ynesbo	ro, GA
A N-VALUE (SPT)  O WATER CONTENT %    State   1	Srd 6" ¬ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION /  (* = field classif laboratory testing of sample by field	fication adjuste	ed based on	ION		LEVELS, CTER OF IG AND ATORY
SS 1-4-5	8	219.7	_		GRAVEL	CC) D	1 (2 5VD 5 /		Top of F	Fill at a depth
1 SS 2 7-10-12 SS 3 8-14-13			- - - 5		*SAND, clayey (\$\frac{9}{2}\text{moist, loose, fine trace organics} \$\frac{8}{2}\text{AA except medi SAA except red (2)}	grained,	nonplastic,	contains	Top of F	Barnwell t a depth of
SS 4 9-15-18	8 17		-		SAA except dense	e				
SS 6-9-11	17		10-		SAA except medi	ium dense	e			
SS 6 6-9-11	16		-		SAA					
SS 7 12-12-1	.0 18		15-		SAA					
SS 8 9-10-12	2 16	202.7_	20-		SAND, with silt (7.5YR 6/6), medinonplastic, subrou	(SP-SM) lium dens unded	- Reddish yee, medium	ellow grained,	Water le end of 3 Ground	evel depth at /3/07 =
SS 9 8-10-14	4 12	192.7	25		SAA				Water le	evel depth at
SS 10 4-8-11	18		30-		SAND, with clay 7/6), moist, mediu nonplastic	(SP-SC) um dense	)- Yellow (1	OYR grained,		
SS 11 2-4-6	16	187.7_	35—		CLAY, with sand moist, stiff, very f	d (CL)- Y	Yellow (10Yellow plas	7R 7/6), sticity		
SS N 6-5-5	18	180.4_ 177.7_	40-		SAA SAND, with clay 7/6), moist, mediu nonplastic	(SP-SC) um dense	- Yellow (2 , fine graine	2.5Y ed,		
SS 13	19		45—		CLAY, with sand moist, soft, very flow toughness	d (CL)- Y	Yellow (2.5 ed, low plas	Y 7/6), sticity,		
SS WOR/6"-	-6-7 19	170.1_	-		SAA except stiff					
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE	1 1	SITE	235 of	_	e Units 3 & 4 COL Final Log	Project			HOLE NO	-3010



GE	EC	OTECHNICAL LO	~	OJE(		3 & 4	C	DL Project   JOB NO.   SHEET N 6141-06-0286   2 C	O. HOLE NO. B-3010
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" C 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40 00 80				-	V	SAND, with clay (SP-SC)- Pale yellow (2.5YR 7/4), moist, medium dense, fine grained, nonplastic	
SS 15	X	•	12-14-17	17		55—		SAA except moist to wet, dense	
SS 16	X	<b>A</b>	9-15-14	15	162.7_	60-		SAND, with silt (SP-SM)- Pale yellow (10YR 7/4), wet, medium dense, fine grained, nonplastic	
SS 17	X		2-WOH/12"	19	155.9_	65—		¬ <u>SAA</u> <u>CLAY (CL)</u> - <u>Pale yellow (5Y 8/3), moist,</u> very soft, low to medium plasticity	
SS 18	X	•	1-WOH/6"-1	21	147.7	70-		SAA except low plasticity	
SS 19	X	<b>A</b>	1-3-2	18	143.7_	- - 75—		SAND, with clay (SP-SC)- Pale yellow (5Y 8/3), moist, loose, very fine grained, nonplastic	
SS 20	_		50/1"	0		- - 80—		NO RECOVERY	Top of Utley Limestone at a depth of 76.0 feet
SS 21			50/1"	2	137.7_	85—		*SHELL HASH, with clay (GP-GC)- Pale yellow (5Y 8/4), moist, very dense, angular, +HCL	Loss of circulation at a depth of 82.0 feet
SS 22			50/1"	1.5	193.7_	- - - 90-		*CEMENTED FRAGMENTS, with clay (GP-GC) - Dark greenish gray (GLEY1 4/5GY), damp, very dense, +HCL	Top of Blue Bluff Marl at a depth of 86.0 feet  Return of circulation
					127.7_	- -			at a depth of 90.0 feet
SS 23	X	•	17-17-23	22	122.7_	95—		CLAY (CL) - Greenish gray (GLEY1 5/5GY), moist, hard, low plasticity, medium toughness, contains trace of shells, +HCL	
SS 24		,	50/0"	0		100-		NO RECOVERY	Water level depth at end of $3/4/07 = 3.0$
UD 1		0		24	117.7_	105-		SAA	feet  Water level depth at beginning of 3/5/07 = 18.0 feet Pitcher
		<u> </u>			SITE	V 236 of	_	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3010</b>



GE	EC	OTECHNICAL LOC	•	OJEC ogtl		3 & 4	C	JOB NO. SHEET NO. SHEET NO. 3 O	
SAMP. TYPE AND NO.	SAMPLE		1st 6" - 75 2nd 6" 05 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 25		O: □ 4	50/2"	2		110-		SAA except damp	
SS 26	X		11-27-50/3"	16	102.7_	115-		SAA except greenish gray (GLEY1 6/5GY)	Loss of circulation at a depth of 113.0 feet
SS 27	×	•	50/5"	6	192.7	120-		*CLAY, with cemented fragments (CL)- Greenish gray (GLEY1 6/5GY), moist, hard, +HCL	
SS 28	×	⊕-+ □	50/5"	5	92.7_	125-		SAA	
UD 2		0 🗆		13	72.7	130-		CLAY (CL)- Greenish gray (GLEY1 6/5GY), moist, hard, low plasticity, contains cemented fragments, +HCL Pocket Penetrometer: >4.5 TSF, >4.5 TSF, >4.5 TSF	Changed from a 5 7/8 inch to a 2 7/8 inch drilling bit Pitcher
SS 29	X	<b>A</b>	13-23-31	20		135—		SAA except greenish gray (GLEY1 5/10Y)	
SS 30	X		11-27-50/4"	16	77.7_	140-		SAA	
SS 31	X	+⊖+▲ □	17-22-28	22	,,	145-		*CLAY, sandy (CL)- Greenish gray (GLEY1 6/5GY), moist, hard, low plasticity, +HCL	
SS 32	X	<b>A</b>	16-19-25	19		150-		SAA	
SS 33	X	<b>A</b>	18-22-33	20	62.7_	155—		SAA	
SS 34	X	<b>A</b>	8-12-16	3	59.7_	160-		SAND, with clay (SP-SC)- Gray (5Y 6/1), wet, medium dense, very fine to medium grained, nonplastic, -HCL Boring terminated at 160 feet	Top of Still Branch Formation at a depth of 157.0 feet
		; ; ; ;			SITE	V 237 of		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3010</b>



GE	=(	OTECHNICAL LOG	<u> </u>	OJEC		2 0 4 0	OLD : 4	JOB NO.	0.6.0206	SHEET NO		HOLE NO.
LOGG			•		DINATES	3 & 4 C	OL Project	6141-0	06-0286 BEGUN	1 OF	4 COMPL	<b>B-3011</b> ETED
		M. Harvey				N 11427	76.7 E 6220	24.9	1/10/200	)7	1/15/2	
DRILL	ER		D	RILL	MAKE AND		HOLE DIAM			ERIAL NUMB	ER	TOTAL DEPTH
GROU	NID	Warren-MACTEC EL. DEPTH/EL. GROUND WATI	ER SITI		C	CME-75	3 ]	nches		211797		165.0
	20	$\nabla$ /	EK SIII				Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	ro, GA
		- ·	l						<u> </u>		<i>y</i>	- / -
뷥.	l		N-COUNT	RECOVERY (in)	Ζ.	မ မ					NOTES	ON:
<u>₹</u> 9	F	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ER/	ATIC EET	를 IS	DESCRIPTION		AQQIEICAT	ION		R LEVELS, CTER OF
SAMP. TYPE AND NO.	SAMPLE	+ ATT. LIMITS %	1s 21 31	S S	ELEVATION IN FEET	DEPTH IN F	( * = field o	elassification adju esting data and/or y field geologist/	sted based on	ION		NG AND
8		☐ FINES %		R M	Ш		of sample b	y field geologist/	engineer)		TESTIN	
SS		20 40 60 80	4-8-12	10	220.6		CLAY, sandy	(CI) Par	1 (2 5VD 4/6	) deu	Ton of I	Barnwell
1	Ä	<b>A</b>	8-10-13	10	219.1_	<u> </u>	very sitff  SAND (SP)-	` '	`	· • •	Group a	t a depth of
2	Å				217.3_		dense				0.0 1001	
SS 2 SS 3	$\mathbb{M}$	_	10-20-25	14		5-	SAND, silty (	SM)- Red	(2.5YR 4/8),	dry,		
SS	$\mathbb{H}$	<b>A</b>	11-20-21	14			SAA					
4	A											
SS 5	X		10-17-21	15		10-	SAA					
SS		<b>A</b>	13-21-26	14		107	SAA except re	ed (10R 4/8	8)			
6	Å						Shirt except it	a (Tote 1/0	,,,			
SS 7	X	<b>A</b>	10-20-20	12			SAA					
,						15						
SS 8	X	<b>A</b>	10-12-17	12			SAA except red	ed (2.5YR 4	4/8), damp, n	nedium		
8	$\Box$					20	dense, fine to	meaium gr	ained		Water le	evel depth at /10/2007 =
											Ground	surface
SS	$\forall$	<b>A</b>	5-12-12	12			SAA except y	ellowish re	d (5YR 5/8)		Water le	evel depth at
9	A					25					1/11/20 dry	07 = Borehole
											Boring of	caved to a f 22 feet.
SS	$\square$	<b>A</b>	13-14-9	9			SAA				depth of	27.5 feet.
10	Å					30-						
00		<b>A</b>	5-8-8	15		-	CAA awaamt 1-	povymiah v	llow (10VP)	6/9) d		
SS 11	Д		300	13		35-	SAA except b	iownish ye	now (IUYK)	0/0 <i>)</i> , ury		
					183.6_		<u> </u>					
00			000	16			2	1 (07-5)	3/ P ::	17		
SS 12	X		8-8-8	16		40-	<b>SAND, with c</b> (10YR 6/8), d	amp, medit	.)- Brownish im dense	yellow		
			, -									
SS 13	$\mathbb{N}$	_	4-5-8	18		45	SAA					
SS	X	•	6-8-12	11			SAA except y	•	•			
		ED BY: A. TAYLOR			SITE	Vogt	le Units 3 & 4 C Final Log		t		HOLE NO	-3011
KEVIE	۷VE	ED BY: P. DEPREE				238 of 72		<u> </u>			D.	-JU11



GE	EOTECHNICAI		OJEC ogtl		3 & 4	C	JOB NO. SHEE OL Project 6141-06-0286 2	T NO	
SAMP. TYPE AND NO.	│ │ □ FINES %	lst 2m 3rc	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 60	80		168.6					
SS 15	<b>A</b>	3-3-5	18		55—		CLAY, sandy (CL)- Yellow (2.5Y 7/6), damp, medium stiff		
SS 16	<b>A</b>	11-13-14	13	163.6_	60-		SAND, with clay (SP-SC)- Pale yellow (2.5 8/2), damp, medium dense	Y	
SS 17	<b>A</b>	16-20-14	5	158.6_	65—	1/2	SAND (SP) - Pale red (10R 7/2), wet, dense, -HCL		
SS 18		3-2-2	18	153.6_	70-		CLAY, sandy (CL) - Pale yellow (2.5Y 7/4) moist, medium stiff, -HCL	 ),	
SS 19	X •	5-6-8	18	148.6_	75—		CLAY (CL) - Yellow (2.5Y 7/4), moist, stiff	 f,	
SS 20		10-11-13	18	141.1_	80-		SAA except olive grey (5Y 5/2), wet, very st *SHELL HASH, silty (GM)- Pale yellow (3 8/2), wet, medium dense, +HCL	tiff 5Y	
SS 21		16-16-7	6		85—		SAA		
SS 22	X	28-50/1"	12	133.6_	90-		*CLAY, with shell hash (CL)- Pale yellow (2.5Y 8/3), hard, +HCL		Loss of circulation at a depth of 86.0 feet. Advanced casing to a depth of 88.5 feet. Later advanced casing to a depth of 92.0 feet. Top of Utley Limestone at a depth of 87.0 feet.
SS 23	<b>A</b>	11-13-19	18	128.6_	95—		CLAY (CL) - Pale olive (5Y 6/3) and green grey (GLEY1 5/1/10GY), damp, hard, +HCI	ish	of 87.0 feet. Top of Blue Bluff Marl at a depth of 92.0 feet.
SS 24		50/1"	8		100-		SAA except greenish grey (GLEY1 5/1/10G contains shell hash	Y),	Loss of circulation at a depth of 96.0 feet. Advanced casing to 97.0 feet.
SS 25		17-19-22	18	118.6_	105—		*CLAY, silty (CL)- Greenish grey (GLEY1 5/1/10GY), hard, contains traces of shells, +HCL		Water level depth at end of 1/11/2007 =
				113.6_ SITE	V	ogtl	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-3011</b>



GE	OTECHNICAL LO		OJEC ogtle		3 & 4	C	JOB NO.  OL Project 6141-06-0286	SHEET NO	
SAMP. TYPE AND NO.	■ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" 0 3rd 6" 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	ON	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	17-26-50/1"	18		110-		CLAY (CL) - Dark greenish grey (GLF 4/1/10Y), moist, hard, contains traces o +HCL	EY1 f shells,	Ground surface
SS 27	×	26-50/1"	10		115-		SAA		
SS 28	<b>A</b>	26-31-41	18		120-		SAA except greenish grey (GLEY1 5/1	/10Y)	Loss of circulation at a depth of 117.0 feet.
SS 29	×	<b>▲</b> 36-50/1"	8		- - 125—		SAA		
SS 30		50/1"	6		130-		SAA except moist to wet		
SS 31	×	27-50/1"	18		135—		SAA except greenish grey (GLEY1 6/1 moist	/10Y),	
SS 32	<b>A</b>	21-25-26	13		140-		SAA		
SS 33		26-36-42	18		145-		SAA		Water level depth at end of 1/12/2007 =
SS 34	X	<b>1</b> 7-38-50/2"	18		150-		SAA		65.0 feet
SS 35	X	41-47-50/3"	18		155—		SAA		
SS 36	X	13-32-50/1"	18		160-		SAA		
SS	X	13-32-50/1"	8	58.6_	-	ogtl	SAND, silty (SM)- Very dark greenish e Units 3 & 4 COL Project	grey	Top of Still Branch Formation at a depth of 162.0 feet.
					240 of	724	Final Log		B-3011



GE	OTECHNICAL L	DJECT ogtle Units	3 & 4	CC	L Project	JOB NO. 6141-06-0286	SHEET NO		HOLE NO. <b>B-3011</b>
SAMP. TYPE AND NO.	☐ FINES %	RECOVERY (in) ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	(* = field cl laboratory te of sample by	ON AND CLASSIFICAT lassification adjusted based on esting data and/or re-examination y field geologist/engineer)		WATE CHAR DRILL	S ON: ER LEVELS, RACTER OF ING AND RATORY ING
37	20 40 60 80	SITE		ogtle	· Units 3 & 4 CC	OY), wet, very dense, - ated at 164.58 feet	HCL /	HOLE	
			<del>724</del>	Final Log	5		<u> </u>	3-3011	



GE	ΞΟ	TECHNICAL LOG	<u> </u>	OJEC notl		3 & 4	CO	OL Project	JOB NO.	06-0286	SHEET NO	-	HOLE NO. <b>B-3012</b>
LOGG	ED B				DINATES			•		BEGUN		COMPLE	ETED
DRILL	ER	C. Gandy	D	RILL	MAKE AND			72.5 E 6219 HOLE DIAM		11/15/20 HAMMER SE		11/27/2 SER	<b>2006</b>  TOTAL DEPTH
		Burnett-Gregg Drilling			CI	ME-8	50	3 I	nches		165952		159.3
GROU 2	ND 6	$\nabla$ /	R SITE	Ξ:				Vogtle Elect	ric Gene	erating Pla	ant - Wa	vnesboi	ro, GA
										8		•	
SAMP. TYPE AND NO.	SAMPLE	<ul><li> WATER CONTENT %</li><li> + ATT. LIMITS %</li><li> □ FINES %</li></ul>	1st 6" -7 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIO (* = field cl laboratory te of sample by	ON AND CL lassification adjus esting data and/or y field geologist/e	sted based on	ION		LEVELS, CTER OF IG AND ATORY
SS	$\forall$	20 40 60 80	3-18-18	19	220.4			SAND, silty (S	SM)- Red (	10R 4/8), dr	y, dense,	Top of B	Barnwell a depth of
1 SS 2 SS		<b>A</b>	12-14-17	18		-		SAA except do	oes not con	tain fill	at surface	0.0 feet	a depth of
SS 3 SS		<b>A</b>	10-7-7 7-11-13	15	216.3_	5— 5—		SAA except lig medium dense CLAY (CL)- medium plastic	Red (10R 4	4/8), damp, s	tiff,		
4	Ä				212.4_	_		SAA except dr slightly lignitic	y, very stif	f, low plastic	city, 		
SS 5	X	<u>^</u>	10-13-12 12-15-18	18		10-		SAND, clayey medium dense	_	-	damp,		
SS 6	X		12-13-18	18		-		SAA except re	d (10R 5/8	), dense			
SS 7	X	<b>A</b>	14-14-19	16		15—		SAA					
SS 8	X	<b>A</b>	7-10-12	14	203.4_ 198.4	20-		SILT (ML) - F low plasticity	————— Red (10R 4,	/8), dry, very	stiff,		
SS 9	X	<b>A</b>	6-5-7	17	170.1_	25-		SAND, clayey medium dense	(SC)- Red , contains r	l (10R 5/8), q ninor clay-ri	damp, ch seams		
SS 10	X	<b>A</b>	7-10-13	16		30-		SAA				Water le end of 1 30.0 feet	vel depth at 1/15/06 =
SS 11	X	<b>A</b>	6-6-7	18		35—		SAA except re plasticity, cont	ddish yello ains minor	ow (7.5YR 6/ clay seams	/8), low		
SS 12	X	<b>A</b>	5-8-9	14	178.4	40-		SAA except co	ontains 2" v	vide clay sea	m		
SS 13		<b>A</b>	5-8-8	21	173.4_	45 —		SILT, with sal (7.5YR 7/8) an to moist, very s contains minor	id light bro stiff, low to	wn (7.5YR 6 medium pla	5/4) damn		
SS	X	<b>A</b>	5-5-6	10.5		_		SAND, clayey 6/8), moist, me			(7.5YR rained,		
		D BY: A. TAYLOR D BY: P. DEPREE			SITE	V	ogtl	e Units 3 & 4 CC Final Log	OL Project			HOLE NO.	3012
					<u>I</u>	242 of	<del>724</del>		<del>-</del>				



GEOTE	<u> </u>	OJEC ogtl		3 & 4	C	JOB NO. SHEET N OL Project 6141-06-0286 2 C	O. HOLE NO. B-3012	
SAMP. TYPI AND NO. SAMPLE + O		1st 6" '7 2nd 6" O 3rd 6" '4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	40 60 80			168.4			low plasticity	
SS 15		2-2-4	20		55—		CLAY (CL) - Pale yellow (2.5Y 7/4), damp, medium stiff, medium plasticity	
SS 16	<b>A</b>	9-12-14	14	163.4_	60-		SAND, with silt (SP-SM)- Yellow (10YR 7/8), moist, medium dense, medium grained, nonplastic	
SS X		5-8-9	15	153.4_	65—		SAA except yellow (10YR 7/6), wet	
SS X		2-1-2	27	148.4_	70-		SAND, clayey (SC)- Pale yellow (2.5Y 7/4), damp, very loose, fine grained, medium plasticity	
SS 19		1-1-1	27	143.4_	75—		SAND, silty, clayey (SC-SM)- Very pale brown (10YR 7/4), damp, very loose, fine grained, low plasticity	Water level depth at end of 11/16/06 =
SS 20	,	WOH/6"-1-2	2 26		80-		SAND, clayey (SC)- Very pale brown (10YR 7/4), moist, very loose, fine grained, low plasticity	Water level depth at beginning of 11/17/06 = 36.4 feet
SS 21		1-1-2	24	133.4_	85—		SAA except slightly lignitic	
SS 22		50/1"	0		90-	<i></i>	NO RECOVERY	Top of Blue Bluff Marl at a depth of 87.0 feet  Advanced casing to 90.0 feet
SS Z	<b>A</b>	10-12-16	25	128.4_	95—		SILT (ML) - Greenish gray (GLEY1 5/1), dry, very stiff, low plasticity	End logging by C.
SS Z	•	42-18-18	24		100		SAA except dry to moist, hard, low to medium plasticity, contains traces of SAND and shell hash	Begin logging by M. Cooke.
SS X		12-50/5"	14		105—		SAA except very stiff	Water level depth at end of 11/17/06 =
	; ; ; ; <u> </u>		<u> </u>	SITE	V 243 of	_	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3012</b>



GE	Ξ(	OTECHNICAL LOC	•	OJEC ngtl		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 OF	HOLE NO. B-3012
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" 'A 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	7	9-13-16	27		110-		SAA except medium plasticity	10.0 feet End logging by M. Cooke. Begin logging by C. Gandy. Water level depth at
SS 27	X		15-15-50/1"	22		115-		SAA except hard	Water level depth at beginning of 11/27/06 = 22.4 feet
SS 28	×		50/4"	16		120-		SAA	
SS 29	X	•	9-9-24	27		125—		SAA except damp	
SS 30	X		12-50/4"	17.5		130-		SAA except low plasticity	
SS 31	X	7	10-26-35	26		135—		SAA except medium plasticity	
SS 32	X	, A	8-13-30	27		140—		SAA	
SS 33	X	7	13-20-19	27		- - 145—		SAA except greenish gray (GLEY1 6/1), dry to damp	
SS 34	X	<b>A</b>	18-34-26	27		150-		SAA except slightly lignitic	
SS 35	X	, <u> </u>	9-10-12	26		- - 155—		SAA except damp, very stiff, contains traces of shell hash	
SS 36	×		30-50/4"	15	63.4_ 61.1_	- - -		SAND, silty (SM) - Very dark gray (2.5Y 3/1), damp, dense, fine grained, nonplastic to low plasticity Boring terminated at 159.33 feet	Top of Still Branch Formation at a depth of 157.0 feet  Water level depth at end of 11/27/06 = 10.0 feet
					SITE	V 244 of		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3012</b>



GE	EO1	TECHNIC	AL LO	C	OJEC		201		OI Duoised	JOB NO.	0206	SHEET NO		HOLE NO.
LOGG				•		DINATES	3 & 4		OL Project	0141-0	06-0286 BEGUN	<b>1</b> OF		B-3013(C) LETED
DDIII	- D	G. Pillaj	ppa		י יים		N 114				2/13/200			2007
DRILL	EΚ	Banks-MA	CTEC	ا	KILL	MAKE AND	моде <b>МЕ-5</b>		HOLE DIAM	Inches	HAMMER SE	ERIAL NUME <b>337153</b>	ÞEK	155.0
GROU		. DEPTH/EL.	GROUND WA	TER SITI	E:									
2	20.5	Ţ / ▼ /							Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesb	oro, GA
SAMP. TYPE AND NO.	SAMPLE	N-VALUE (SF ) WATER CON - ATT. LIMITS - FINES % - 20 40	ITENT %	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET OF Street St	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field of laboratory of of sample b	ON AND CL classification adjust testing data and/or by field geologist/o	sted based on	TION	CHAR/ DRILLI	R LEVELS, ACTER OF NG AND RATORY
SS 1	<b>X</b> '	20 40	<del>.</del>	2-4-7	18	220.3			SAND, silty (	SM)- Red (	2.5YR 4/8), e grained, lo	dry to	Top of Group	Barnwell at a depth of
SS 2		•		6-12-13	16		-		SAND, silty (damp, medium plasticity, con SAA except no	tains trace o o organics	organics ,		0.0 feet	at a depth of
SS 3		^		9-22-21	12	215.0	5-		SAA except dense	ark yellowi	sh brown (10	OYR 4/6),		
SS 4	4	<b>A</b>		4-4-7	14	213.0_	-		SAND, clayey 5/6), dry to da	(SC)- Yel mp, mediur	lowish brown dense, fine	n (10YR grained,		
SS 5		<b>A</b>		10-15-20	14		10-		low plasticity SAA except re medium grain	ed (2.5YR 4 ed	1/8), dense, f	ine to		
SS 6		<b>A</b>		17-19-21	16.5		- 10		SAA except re					
SS 7		<b>A</b>		13-17-17	16		- -		SAA except re	ed (2.5YR 4	1/8)			
SS 8		<b>A</b>		12-16-22	18		15 – -		SAA except d	amp				
SS 9		<b>A</b>		9-12-13	15		20-		SAA except m	nedium den	se			
SS 10		<b>A</b>		8-13-11	16	107.5			SAA except re	ed (2.5YR 5	5/8)		Water lend of Ground	level depth at 2/13/07 = l surface
SS 11		<b>A</b>		7-10-14	12	197.5_	25-		SAND, with s	silt (SP-SM n dense, fin	)- Red (2.5Y) e to medium	R 5/8), grained,		
SS 12		<b>A</b>		8-10-10	12		- -		low plasticity SAA					
SS 13		<b>A</b>		9-11-13	16		30-		SAA except re	ed (2.5Y 4/8	8), contains (	CLAY		
SS 14		<b>A</b>		8-8-8	12		-		SAA except st	trong brown	n (7.5YR 5/8	)		
SS 15		<b>A</b>		9-9-9	17.5	185.0	35-		SAA except b	rownish yel	llow (10YR	6/8)		
SS 16		<b>A</b>		8-8-8	17	182.5	-		SAND, clayey 6/8), damp, m grained, low p	y (SC) - Bro edium dens	wnish yellov e, fine to me	w (10YR dium		
SS 17		<b>A</b>		4-6-9	18		40-		CLAY, sandy 6/8), dry to da grained SANI		wnish yellow w plasticity,	w (10YR , fine		
SS 18		<b>A</b>		4-7-9	18	177.5	-		SAA	, contains	писс риозри	are grains		
SS 19		<b>A</b>		6-9-9	12	/ .0_	45-		SAND, with of damp, medium plasticity	clay (SP-SC n dense, fin	C)- Red (2.5) e grained, lo	YR 5/8), w		
SS 20		<b>A</b>		5-7-9	14		-		SAA except y	ellowish red	d (5YR 5/8)			
SS		<b>A</b>		5-5-7	14	Love	-		SAA except b			6/6)		
		BY: A. TAYLOR BY: P. DEPREE				SITE			e Units 3 & 4 C Final Lo		t		HOLE N	o. 8013(C)
							245 of	724						



GE	EC	OTECHNICAL LOC	<u> </u>	OJEC		3 & 4	l CC	JOB NO. S DL Project 6141-06-0286	SHEET NO <b>2</b> OF	
Щ	SAMPLE	▲ N-VALUE (SPT)	1st 6" -x 2nd 6"00 3rd 6" 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATIO  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY
21		☐ FINES %  20 40 60 80		꿉	170.0-					TESTING
SS 22	X	^	4-4-7	15.5	170.0	- - -		<b>SAND, clayey (SC)</b> - Yellowish red (5Y 5/8), damp, medium dense, fine grained, plasticity	R, low	
SS 23			4-7-9	15.5		55-		SAA except red (10R 5/8), contains trac phosphate grains	e	
SS 24	X	<b></b>	5-7-13 8-11-14	10.5	162.5_	-		SAA		
SS 25 SS	X		2-1/12"	15	160.0_	60-		SAND, with silt (SP-SM)- Strong brow (7.5YR 5/6), damp, medium dense, fine medium grained, low plasticity SAND, clayer (SC)- Pale yellow (5Y 8		
26 SS	X A		WOH/18"	17		- - -		SAND, clayey (SC) - Pale yellow (5Y 8, damp, very loose, fine grained, low plast contains trace phosphate grains SAA	ticity,	Loss of circulation at a depth of 62.0 feet
27 SS	X	<b>A</b>	WOH/6"-3-3	17		65-		SAA except loose, contains CLAY seam	ns	
28 SS 29		<b>A</b>	2-8-12	17		-		SAA except pale yellow (5Y 8/2), media dense	um	
SS 30		<b>A</b>	7-9-11	12		70-		SAA except pale yellow (5Y 7/3)		
SS 31	X	<b>A</b>	7-7-10	12.5		75-		SAA		
SS 32	X	<b>A</b>	7-8-9	18	142.5_	- -		SAA except pale olive (5Y 6/4)		
SS 33	X	<b>^</b>	20-18-10	8	140.0_	80-		CLAY, silty with sand (CL-ML)- Oliv 4/4), damp, very stiff, low plasticity, cor shell fragments and calcareous cemented \( \sum_{AND}, \frac{+}{HCL} \)		Loss of circulation at a depth of 78.75 feet
SS 34			18-12-18	18	137.5_	- -		SAND, clayey (SC) - Pale yellow (5Y 7), damp, dense, contains many shell fragm and calcareous cemented SAND with traphosphate grains, +HCL	ients ace	Top of Utley
SS 35 SS	$\boxtimes$	<b>^</b>	30-50/2"	18	135.0_	85-		SAND, clayey (SC)-Pale yellow (5Y7), damp, very dense, contains many shell	VID vyith	Limestone at a depth of 83.0 feet
36 SS	X	<b>A</b>	10-13-16	18		- -		trace phosphate grains, +HCL CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/5GY), dry to damp, stiff, low plasticity, contains trace shell fragments	J S, +HCL	Marl at a depth of 85.5 feet
37					128.5	90-		SAA excépt dark greenish gray (GLÉYI 4/10Y)	I	Water level depth at end of 2/14/07 = Ground surface
SS 38	×	•	50/3"	8		-		*CEMENTED FRAGMENTS, clayey Light greenish gray (GLEY1 8/10Y), da	(SC)-	Installed 6" steel casing to a depth of 93.0 feet (installed by
SS 39	X	<b>A</b>	32-23-32	18	125.0_	95-		very dense  *SILT (MH)- Dark greenish gray (GLE 4/10GY), dry to damp, hard, low plastic contains cemented SAND and trace shel	<i></i> -	Graves Drilling)
UD 1		0+		7		100-		contains cemented SAND and trace shel fragments and phosphate grains, +HCL SAA except damp, no phosphate grains Pocket Penetrometer: >4.5 TSF	II <sup>-</sup>	Pitcher
UD 2		0		31.5		-		SAA Pocket Penetrometer: >4.5 TSF		Pitcher
SS 40	X	<b>A</b>	7-9-14	18		105-		SAA except dry to damp		
SS	×		50/6"	9	SITE	V	   ogtl	SAA except no cemented SAND e Units 3 & 4 COL Project		HOLE NO.
						246 of	_	Final Log		B-3013(C)



GE		OTECHNICAL LOC	<u> </u>	OJEC		2 & A		JOB NO.   10   10   10   10   10   10   10   1	SHEET NO	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)	1st 6" -7 2nd 6" 00 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
41 SS 42	×	•	50/3"	9		-		SAA except with cemented SAND		
SS 43	X	<b>A</b>	23-29-24	18		110-		SAA		
SS		4	7-25-50/3"	18		-	-	SAA		
44 SS 45	$\boxtimes$	4	6-50/2"	8		115-		SAA		
UD 3		0		10.5	102.5_	-		*LIMESTONE (GP)- Greenish gray (6/5GY), dry, hard, contains cemented S	GLEY1	Water level depth at end of 3/6/07 = Top or
UD 4		0		21	99.5_	120-		+HCL ¬ Pocket Penetrometer: >4 5 TSF		casing Pitcher Pitcher
SS 46	×	4	50/5"	9		-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/5GY), dry to damp, hard, lo plasticity, contains cemented seam in bitrace shell fragments, and phosphate gra+HCL	w ottom, ains,	Water level depth at beginning of 3/7/07 = 38.5 feet
SS 47	X	<b>A</b>	11-12-16	18		125-		SAA SAA except very stiff		
SS 48	X	<b>A</b>	12-16-18	18		- 120		SAA except hard		
SS 49		<b>A</b>	12-40-27	18		130-		SAA		
SS 50	X	<b>A</b>	12-16-15	18		135-		SAA		
SS 51	X	<b>A</b>	10-16-29	18		-		SAA except no seams		
SS 52	X	<b>A</b>	12-17-25	18		140-		SAA		
SS 53	X	<b>A</b>	7-18-19	18		-		SAA		Loss of circulation at a depth of 141.0 feet
SS 54	X	4	40-50/4"	15		145-		SAA		
SS 55	X	<b>A</b>	9-9-16	18		-		SAA except very stiff		
SS 56	X	<b>A</b>	7-8-7	18	70.0_	150-		SAA		
SS 57	X	<b>A</b>	9-28-30	18	70.0_	-		SAND, clayey (SC) - Very dark greenis (GLEY1 3/10Y), damp, very dense, fin grained, low plasticity, contains trace sl fragments, -HCL	sh gray	Top of Still Branch Formation at a depth of 150.5 feet
SS 58	X	<b>A</b>	17-35-28	18	65.5_	155-		SAA	neii	
								Boring terminated at 155 feet		
					SITE	V	ogtl	e Units 3 & 4 COL Project		HOLE NO.
						247 of		Final Log		B-3013(C)



GI	ΞC	OTECHNICAL L		ROJEC		3 & 4	l CC	OL Project	JOB NO.	06-0286	SHEET NO		HOLE NO. <b>B-3014</b>
LOGG	ED				DINATES				ı	BEGUN	1 OF	COMPL	
DRILL	ER	M. Herrera		DRILL	MAKE AND			99.4 E 6217 HOLE DIAM		2/7/200 HAMMER SE		2/13/2 BER	2007 TOTAL DEPTH
		<b>Burnett-Gregg</b>			Fros	ste M	DX	L 31	nches		X02958		158.7
GROU 2	ND <b>20</b> .	$\nabla$ /	WATER SIT	E:				Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	ro, GA
										<u> </u>			
/PE	щ	▲ N-VALUE (SPT)	N-COUNT	Y (in)	N O ⊢	I FT	CS					NOTES	
SAMP. TYPE AND NO.	SAMPLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	VER	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTIO	N AND CL		ION		LEVELS, CTER OF
SAN	S/S	+ ATT. LIMITS % □ FINES %		RECOVERY (in)		DEP	GR	laboratory to of sample by	esting data and/or y field geologist/o	r re-examination engineer)		LABOR	ATORY
		20 40 60 80			220.3	_							
SS 1	A	Ā	9-11-9 9-6-11	18		-	$\bigotimes$	SAND, with si	ilt (SP-SM	l)- Contains o	lebris	Top of F of 0.0 fe	Fill at a depth et
SS 2 SS	Å	<b>A</b>	3-2-4	0	217.0_	-	$\bowtie$						
3	A		3-2-4		214.8_	5-		NO RECOVE	. <b>К</b> Ү				
SS 4	M	<b>A</b>	4-4-10	8	213.3_	-		GRAVEL (GI	P)	rad (5V 5/8)	and nala	Top of I	Barnwell
SS	M	<b>A</b>	8-8-10	14	212.3_	-		CLAY (CL)- yellow (5Y 8/3 SAND, with c (5YR 5/8), dan medium graine	3), damp, st lay (SP-SC	tiff C)-Yellowish	n red	Group a 7.0 feet	t a depth of
5		<b>A</b>	11 11 12	10		10-		(5YR 5/8), dan medium graine	np, mediured, rounded	n dense, fine	to		
SS 6	X		11-11-13	18		-		SAA except re yellow (7.5YR	d (2.5YR 5 . 6/8)	5/8) and redd	ısh		
SS 7	X	<b>A</b>	13-15-18	18		-		SAA except re	d (2.5YR 5	5/8), dense			
,					203.3	15-							
					203.3_	-						-	
SS 8	X		16-16-16	18		20-		<b>SAND, with c</b> (2.5YR 5/8), d	lay and gr amp, dense	avel (SP-SC) e, medium gr	)- Red ained		
					198.3_	-							
SS			15-12-10	18		-		CAND (CD) S	Strong brow	vn (7 5VP 5)	Q) wat		
9	A		17 12 17			25-		SAND (SP) - S medium dense	, coarse gra	ained, sub-ro	unded		
					193.3_	-	777						
SS	M	<b>A</b>	7-8-10	18		-		SAND, clayey	(SC)- Bro	ownish yellov	y (10YR		
10						30-		<b>SAND, clayey</b> 6/6), damp, me sub-rounded	edium dens	se, coarse gra	ined,	Water le	evel depth at /07/2007 =
						-		SAA excent lis	eht vellowi	sh brown (10	YR 6/4)	Ground	surface
SS 11	X	<b>A</b>	6-8-7	17		35-		SAA except lig to brownish ye medium graine	flow (10Y)	R 6/6), moist	, fine to	beginnir	evel depth at ng of 07 = 13.0 feet
''	П				183.3	- 25						2,00,200	5, 13.0 ICC
_					103.3_	-							
SS 12	M	_	5-5-8	18		40-		CLAY, sandy 7/8), damp, sti	(CL)- Yel ff, low plas	llow (2.5Y 7) sticity	6 to		
					178.3_	-							
SS	$\mathbb{H}$	<b>A</b>	8-9-9	10		-		SAND, clayey	(SC)- Yel	low (10YR 7	7/6).		
13	A					45-		wet, medium d sub-rounded, -	lense, medi	ium to coarse	grained,		
						-							
SS	A	<b>A</b>	3-4-5	18		-		SAA except m	oist, loose,	, fine grained			
		ED BY: A. TAYLOR	<u> </u>		SITE	V	ogtl	e Units 3 & 4 CC		t		HOLE NO	
REVIE	WE	ED BY: P. DEPREE				248 of	<del>724</del>	Final Log	<u> </u>			B-	-3014



GE	EC	OTECHNICAL LO	<u> </u>	oje( o <b>gt</b> ]		3 & 4	l C(	JOB NO.         SHEET NO.           OL Project         6141-06-0286         2 of	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14					168.3_	-			
SS 15	X	<b>A</b>	4-4-5	18	163.3	55-		CLAY, with sand (CL)- Yellow (2.5Y 8/6), damp, stiff, low plasticity, -HCL	
SS 16	X	<b>A</b>	9-11-13	11	158.3_	60-		SAND, with clay (SP-SC)- Yellow (10YR 7/6), wet, medium dense, medium grrained, -HCL	
SS 17	X	<b>A</b>	4-5-5	18	153.3	65-		CLAY, with sand (CL)- Yellow (2.5Y 7/6) and pale yellow (5Y 8/4), moist, stiff, medium plasticity, contains SAND lenses	
SS 18	X	<b>A</b>	10-22-14	18	_	70-		SAND, clayey (SC)- Pale yellow (5Y 8/3), moist, dense, fine grained, -HCL	
SS 19	X	<b>A</b>	14-14-21	14	148.3_	75-		SAND, with silt (SP-SM)- Pale yellow (2.5Y 8/2), moist, dense, fine grained, -HCL	
SS 20	X	<b>A</b>	10-3-1	12	139.3_	80-		SAA except light grey (5Y 7/2) to pale yellow (5Y 7/3), very loose	Ton of Utlay
SS 21	X	<b>A</b>	6-9-9	2.5		85-		*SHELL HASH (GP)- Pale yellow (5Y 8/3), +HCL	Top of Utley Limestone at a depth of 81.0 feet. Loss of circulation at a depth of 81 feet
SS 22	X	<b>A</b>	10-16-24	18	132.3_	90-		CLAY (CL)- Greenish grey (GLEY1 6/1 to 5/1), damp, very stiff, medium plasticity, +HCL	Top of Blue Bluff Marl at a depth of 88.0 feet.
SS 23	X	<b>Å</b>	16-18-22	18	128.3_	- - - 95 –		*CLAY, with shell hash (CL)- Greenish grey (GLEY1 5/10Y), dry, very stiff, +HCL	
SS 24	X	4	15-17-50/4"	14		100-		SAA except hard	Installed 4" steel casing to a depth of 100.0 feet Water level depth at end of 2/08/2007 =
SS 25	X	<b>A</b>	10-14-16	18	118.3_	105-		CLAY, silty (CL-ML)- Greenish grey (GLEY1 5/10Y), dry, very stiff, low plasticity, +HCL	Water level depth at end of 2/08/2007 = Ground surface
					113.3_ SITE	V 249 of	_	e Units 3 & 4 COL Project Final Log	HOLE NO. B-3014



GE	EC	TECHNICAL LO	$\frown$	OJEC ogtl		3 & 4	C	JOB NO. SHEET N OL Project 6141-06-0286 3 c	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" C 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X		14-50/6"	17.5		- 110-		CLAY (CL) - Greenish grey (GLEY1 6/10Y), dry, hard, medium plasticity, +HCL	Water level depth at end of 2/12/2007 = 6.0 feet
SS 27	X	Å	13-20-18	18		115—		SAA except damp	Water level depth at beginning of 2/13/2007 = 23.0 feet
SS 28	X	<b>A</b>	32-23-44	18		120-		SAA	
SS 29	X		32-50/5"	16		125-		SAA except damp	
SS 30	X	<b>A</b>	13-12-18	18		130-		SAA except light greenish grey (GLEY1 7/10Y) to greenish grey (GLEY1 6/10Y), very stiff	
SS 31	X		27-22-50/5"	18		135—		SAA except hard	
SS 32	X	4	12-18-20	18		140-		SAA	
SS 33	X	<b>A</b>	18-29-36	18		145—		SAA	
SS 34	X	<b>A</b>	19-25-25	18	68.3_	150-		SAA except contains shell fragments	
SS 35	X	<b>.</b>	12-18-22	18	63.3_	155—		SAND, with silt (SP-SM)- Very dark greenish grey (GLEY1 3/10Y), moist, dense, fine grained, -HCL	Top of Still Branch Formation at a depth of 152.0 feet.
SS 36	×		50/3"	0	61.5_	-	. · J11.	NO RECOVERY Boring terminted at 158.75 feet	
					SITE	V <del>250 of</del>		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3014</b>



GFO	TECHNICAL LOC	<u> </u>	OJEC.		2 0 4	~		JOB NO.	26.0206	SHEET NO		HOLE NO.
LOGGED B		* (		OINATES	3 & 4	CC	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	B-3015
LOGGLD	S. Woodham		JOINL		N 114	295	56.9 E 6218	24.0	2/13/200	7	3/7/2	
DRILLER	St 11 dddidii	DI	RILL N	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
	Warren-A.E. Drilling			<b>C</b> ]	ME-7	<u>50</u>	6 I	nches		328848		150.0
GROUND E <b>221.</b> 3	$\nabla$ /	ER SITE	Ξ:				Vogtle Elect	ric Gond	rating Pla	ant - Wa	vnasho	ro GA
221.0	<u>o</u> ,						v ogue Electi	iic Gene	Taung 1 i	ant - vv a	ynesbu	10, GA
SAMP. TYPE AND NO. SAMPLE		1st 6" -7 2nd 6" 00 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIO (* = field cl laboratory te of sample by	assification adju-		ION	CHARA	R LEVELS, CTER OF NG AND ATORY
SS 1	<b>^</b> .	2-4-6	18		_		SAND, silty (S medium dense	SM)- Red (	(2.5YR 4/6), ed	damp,	Top of I Group a	Barnwell t a depth of
$\mid$ ss $\mid X \mid$		8-7-9	18		-		SAA	, mie Brum			0.0 feet	t a depth of
$\begin{bmatrix} 2 & \times \\ SS & \times \\ 3 & \times \end{bmatrix}$	□ ▲	8-12-14	18	216.3_	5-		SAA					
SS 4	<b>A</b>	4-7-9	18		-		SAND, clayey 5/8), damp, me	(SC)- Yel edium dens	llowish brown se, fine graine	n (10YR ed		
SS 5	0 🛦 🗆	5-13-15	18		10-		SAA except re 7/6)	d (2.5YR 4	4/8) and yello	ow (10YR		
SS S	<b>^</b>	8-12-13	18	208.8_	-		SAA except re grained	d (2.5YR 4	4/8), fine to c	oarse		
SS 7	<b>A</b>	12-16-19	18		15-		SAND, silty (S	SM)- Yello ine graineo	owish red (5Y l	7R 5/8),		
				204.8_	-, -	///						
SS X	^	6-9-15	18	202.3_	20-		CLAY (CH) - stiff, high plast SAND, clayey	(SC)- Bro	wnish vellov	v (10YR 🔝		
				199.8_		4	6/6), damp, me	dium dens	se, fine graine	ed` 		
SS S	<b>A</b>	6-8-8	18	194.8_	25-		SAND, silty (S 6/6), damp, me	SM)- Brow edium dens	vnish yellow ee, fine graine	(10YR ed		
SS N	<b>A</b>	5-5-7	18	174.0_	30		CLAY (CH)-high plasticity,	Yellow (2 -HCL	.5Y 7/6), dan	np, stiff,		
				189.8_	-							
SS X	<b>A</b>	4-5-10	18	184.8	35-		CLAY, sandy damp, stiff, low	(CL)- Oli v plasticity	ve yellow (2.	5Y 6/6),		
SS X	<b>A D O</b>	3-4-4	18		40-		SAND, silty, c 7/6), damp, loc	layey (SC ose, fine gr	- <b>SM)</b> - Yellov ained	w (2.5Y		
SS X	<b>A</b>	WOH/6"-2-3	18	174.8	45 —		SAA					
55 🛚		WOH/6"-3-4	18		- -		* <b>SAND, with</b> : 8/3), damp, loc	se, fine to	medium grai	ned		
	D BY: A. TAYLOR D BY: P. DEPREE			SITE	V	ogtlo	e Units 3 & 4 CC Final Log		t		HOLE NO	-3015
	, DEI NEE				251 of	<del>72</del> 4	1 III II I I I	•				JU10



GE	Ξ	OTECHNIC	CAL LO		OJE(		3 & 4	l C(	JOB NO. SHEET! OL Project 6141-06-0286 2	HOLE NO. DF 3 B-3015
/S	SAMPLE	▲ N-VALUE (S ○ WATER COM + ATT. LIMITS □ FINES % 20 40	NTENT %	lst 6" -z 2nd 6" 00 3rd 6" 11	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 15	X	<b>A</b>		4-4-5	12	164.0	- - - 55—		SAA except pale yellow (5Y 8/2)	
SS 16	X			WOR/18"	18	164.8_ 159.8	- - 60-		SAND, silty, clayey (SC-SM)- Pale yellow (5Y 8/4), damp, very loose, fine grained	Beginning to lose circulation at a depth of 59.0 feet
SS 17	X	•		WOR/18"	18	154.8	65—		CLAY (CL) - Pale yellow (5Y 8/4), damp, very soft, low plasticity, contains 0.25" to 0.5" SAND seams, -HCL	
SS 18	X	4		8-9-10	3	19 1.6_	70—	-	SAND, with silt (SP-SM)- Pale yellow (2.5Y 7/3), damp, medium stiff, fine grained, -HCL	Loss of circulation at a depth of 70.0 feet
SS 19	X	<b>A</b>		10-12-12	18		75—		SAA except yellow (5Y 7/6)	
SS 20	X	<b>A</b>		3-4-4	8		80-		SAA except pale yellow (5Y 8/4), moist, loose	
SS 21				50/1"	8	137.0_ 134.8	85 —		CLAY, sandy (CL)- Pale olive (5Y 6/4), damp, hard, low plasticity, contains shells, +HCL	Top of Utley Limestone at a depth of 84.8 feet
SS 22	X	<b>A</b>		16-14-16	18		- - 90-		CLAY (CL) - Dark greenish gray (GLEY1 4/10Y), damp, very stiff, low plasticity, +HCL	Top of Blue Bluff Marl at a depth of 87.0 feet  Water level depth at end of 2/14/07 = Ground surface
SS 23				50/1"	3	129.3_	95—		*SILT (MH) - Greenish gray (GLEY1 5/5GY), damp, hard, high plasticity, +HCL	Water level depth at beginning of 3/5/07 = 32.0 feet End logging by S. Woodham. Begin logging by L.
SS 24	X			20-50/3"	10		100-		SAA	Davis. Installed 6" steel casing to a depth of 95.0 feet
SS 25	X	+++++++++++++++++++++++++++++++++++++++		22-50/5"	18		105-		SAA except greenish gray (GLEY2 5/10Y)	
				•		SITE	252 of	_	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3015</b>



GE		TECHNICAL LOC	<u> </u>	OJE(		2 8- /			ET NO.	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)	1st 6" -z 2nd 6" O 3rd 6" _ x	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	×		50/4"	10		110-		SAA except greenish gray (GLEY2 6/10Y) nonplastic	),	Water level depth at end of 3/5/07 = Top of
UD 1				6		115-	- - - -			casing Water level depth at beginning of 3/6/07 = 40.0 feet Pitcher
UD 1A				0		-				Pitcher
UD				5	101.8_	120-				Pitcher
1B UD		⊕+□		14		-		*CLAY (CH) - Greenish gray (GLEY1		Pitcher
1C SS 27	X		19-50/5"	15		125-		*CLAY (CH)- Greenish gray (GLEY1 6/10Y), damp, hard, low plasticity, +HCL Pocket Penetrometer: >4.5 TSF SAA except moist		
SS 28	X	•	8-13-27	26		130-		SAA except light greenish gray (GLEY1 7/10Y)		
SS 29	X	<b>A</b>	11-13-11	26		135-		SAA except greenish gray (GLEY1 6/10Y) very stiff	),	
SS 30	X	<b>A</b>	11-17-29	24		140-		SAA except hard, low to medium plasticity	y	Water level depth at end of 3/6/07 = Top of
UD 2		O		14		145-		SAA except light greenish gray (GLEY1 7/10Y), medium plasticity Pocket Penetrometer: >4.5 TSF		casing Water level depth at beginning of 3/7/07 = 35.0 feet Pitcher
SS 31	X	<b>A</b>	2-4-10	20	72.8_ 71.8_	150-		SAA except greenish gray (GLEY1 6/10Y) stiff, contains minor shell hash CLAY, silty, sandy (CL-ML)- Very dark greenish gray (GLEY1 3/5GY), moist, stiff medium plasticity, -HCL Boring terminated at 150.0 feet	), , , , , , , , , , , , , , , , , , ,	Top of Still Branch Formation at a depth of 149.0 feet
					SITE	V	/ogtl	e Units 3 & 4 COL Project		HOLE NO.
						253 o		Final Log		B-3015



GE	ОТ	ECHNICA	L LOG		OJEC ngtl		3 & 4	CC	OL Project	JOB NO.	06-0286	SHEET NO		HOLE NO. <b>B-3016</b>
LOGGE	D BY					DINATES				1	BEGUN		COMPL	ETED
DRILLE	R	D. Brooks		D	RILL	MAKE AND			78.4 E 6219 HOLE DIAM		12/13/20 HAMMER SE		12/21/ BER	<b>2006</b> TOTAL DEPTH
		hristian-MAC		$\perp$		C	ME-	75	3 I	nches		200587		150.0
GROUN 22	1D EL.	DEPTH/EL. GRO  □ / □ / □ /	UND WATER	SITE	≣:				Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	ro, GA
											· · · · · · · · · · · ·			-, -
SAMP. TYPE AND NO.		N-VALUE (SPT)	N-CC	TAUC	RECOVERY (in)	NO F	Ħ	cs					NOTES	
P. G	SAMPLE + O	WATER CONTEN	1z %	2nd 6" 3rd 6"	VER	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTIO			ION	CHARA	LEVELS, CTER OF
SAM		ATT. LIMITS %			ECO		DEP.	GR/	(* = field c laboratory t of sample b	lassification adju- esting data and/or y field geologist/o	sted based on r re-examination engineer)		DRILLIN LABOR TESTIN	ATORY
		FINES % 20 40 60	80		۳	222.5							IESTIN	G
SS 1	X		10-	13-16	14		-		SAND, silty (S	SM)- Red ( , fine grain	(2.5YR 4/8), ned	damp,	Group a	Barnwell t a depth of
SS 2	X		14-	16-20	13		-		SAA	_			0.0 feet	-
	X	<b>A</b>	4-1	17-19	14		5-		SAA					
ss	V	<b>A</b>	9-1	19-20	16		-		SAA except ye	ellowish br	rown (10YR	5/8)		
4				4.0	20	214.5_	-							
SS 5	X -		3	-4-8	20		10-		SAND, with c (5YR 5/8), me	lay (SP-SC dium dens	c)- Yellowis e, low plastic	h red city, -HCL		
ss	X	<b>A</b>	10-	12-17	16		-		SAA					
6		<b>A</b>	8-1	14-19	15	209.5_	-	_//	CAND (CD)				_	
SS 7	X				13		15-		SAND (SP) - Y dense, nonplas	tic	ieu (3 i K 3/6	), uamp,		
						205.5_	-							
SS		<b>A</b>	11-	10-17	14		-		SILT (ML)- Y	Vellowish 1	red (5VR-5/8	) damn		
8	Å						20-		SILT (ML) - Yery stiff, non	plastic, -HO	CL (3 TK 3/0	), damp,	Installed	l 4" steel
						200.5_	-						casing to	o a depth of t
ss	$ \sqrt{} $	<b>A</b>	8-	8-15	13		-		CLAY, with s	and (CL)-	· Yellowish b	orown		
9	$\triangle$						25-		CLAY, with s (10YR 5/8) an very stiff, med	d yelfowisl ium plastic	h red (5YR 5 city, -HCL	/8), damp,		
						195.5_	-							
ss	X	<b>A</b>	8-1	10-13	14		-		SAND, with s	ilt (SP-SM઼	I)- Yellowişi	brown		
10							30-		(10YR'5/8), da	imp, medii	ım dense, -H	.CL		
						190.5_	-						_	
SS	X	<b>A</b>	10-	13-18	16		_		SILT, sandy (6/8), damp, ha	ML)- Bro	wnish yellow	(10YR		
11						105.5	35-		0/0), <b>u</b> amp, na	iu, iow pia	sticity, -ITCI	_		
						185.5_	-						_	
SS 12	┥ 4	<b>\</b>	4	-6-7	18		-		CLAY, with s (10YR 6/8), da	and (CL)F	Brownish yel medium plas	llow ticity		
12						100 5	40-		-HCL	p, ouiii, i	pius			
						180.5_	-						-	
SS 13	X		7-	10-9	14		- 45 —		SAND, with s damp, medium	ilt (SP-SM dense, lov	I)- Red (2.5Y) w plasticity,	'R 4/6), -HCL		
						175.5_	<del>-1</del> 3 -		-					
		<b>A</b>		_ , -		1/3.3_	-						1	
SS	<u>X</u>		5-	7-10	15	CITE	-		SAND, clayey 6/8), damp, me	(SC) - Bro	ownish yellov se, low plasti	w (10YR city,	1101 5 115	
		Y: A. TAYLOR Y: P. DEPREE				SITE	V	ogtlo	e Units 3 & 4 Co Final Log		t		HOLE NO	-3016
							254 of	<del>724</del>					-	



GE		TECHNICAL LO	_	OJE(		2 0 4		JOB NO. SHEET NO.	
	_ <b>`</b>		<u> </u>	ogtl	e Units	3 & 4	C(	<b>DL Project</b>   6141-06-0286   2 o	= 3   B-3016
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" -z 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14						-		-HCL	
SS 15	X	<b>A</b>	6-9-16	13	165.5	55-		SAA	
SS 16	X	<b>A</b>	10-14-20	14	165.5_	60-		SAND, with silt (SP-SM)- Brownish yellow (10YR 6/8), damp, dense, fine grained, nonplastic, -HCL	
SS 17	X	<b>A</b>	5-11-11	14		65-		SAA except light greenish gray (GLEY1 8/1)	Water level depth at end of 12/13/06 =
SS 18	X	<b>A</b>	10-15-21	15		70-		SAA except dense	65.0 feet  Water level depth at beginning of 12/14/06 = 57.1 feet
SS 19	X	<b>A</b>	7-9-14	16	150.5_	75—		SAND, with silty clay (SP-SC)- Light greenish gray (10YR 7/1), damp, medium dense, low plasticity, -HCL	
SS 20	X	<b>A</b>	7-8-11	16	142.5_	80-		SAA	Losing drilling fluid
SS 21	_		50/1"	0		85-		NO RECOVERY	Top of Utley Limestone at a depth of 80 feet.  Advanced casing to a depth of 85.0 feet Water level depth at beginning of 12/15/06 = 34.75 feet
SS 22	X	<b>A</b>	10-33-26	24	134.0_	90—		CLAY (CL)- Gray (7.5YR 5/1), damp, hard, low plasticity, +HCL	Top of Blue Bluff Marl at a depth of 88.5 feet End drilling by Christian-MACTEC.
SS 23	X	<b>A</b>	14-21-21	24		95—		SAA except contains shell fragments	Begin drilling by Warren-MACTEC with a CME-75, hammer serial #211797
SS 24	$\boxtimes$		16-50/3"	16		100-		SAA except greenish gray (GLEY2 5/1)	
SS 25	$\boxtimes$		17-50/2"	10	115.5_	105-		SAA	
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3016</b>
						255 of	724	I IIIII IIVS	D 0010



GEO	OTECHNICAL LO		ojec ogtl		3 & 4 (	OL Project   JOB NO.   SHEET NO.   SHEET NO.   3 OF	3 B-3016
SAMP. IYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" 05 3rd 6" 12	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologis/enginer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26		50/1"	0	110.5	110-	NO RECOVERY	
SS Z	<b>A</b>	22-23-38	25	110.5_	115	CLAY (CL) - Greenish gray (GLEY2 5/1), damp, hard, low plasticity, +HCL	
SS × 28		50/4"	3.5		120	SAA	
SS × 29	,	50/5"	4		125	SAA	
SS X	<b>A</b>	15-16-26	24		130-	SAA	
SS 31	<b>A</b>	15-20-23	25		135	SAA	
SS X	<b>A</b>	12-17-38	25		140	SAA	
SS X	<b>A</b>	18-19-24	25	75.5	145	SAA	
SS 34	•	15-39-44	14	75.5_ 72.5_		CLAY, with sand (CL)- Greenish gray (GLEY1 4/2), damp, hard, low plasticity, fine grained SAND, +HCL Boring terminated at 150 feet	
				SITE	Vog	le Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3016</b>



GE	ОТ	ECHN	ICAL LO	)C	OJEC		204		OF Davidson	JOB NO.	06.0306	SHEET NO		HOLE NO.
LOGGE				v		DINATES	3 & 4	C	OL Project	0141-0	06-0286 BEGUN	1 OF	COMPI	B-3017
	וט כ.	R. C	lark				N 114	1303	34.4 E 6217	49.9	2/19/200	7	2/20/	
DRILLE	R	11, 0			RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
		<u> </u>	ER DRILL			C	ME-	85	6 I	nches	]	270256		150.0
GROUN	ID EL. <b>2.1</b>	DEPTH/E	EL. GROUND W	ATER SIT	E:				Vogtle Elect	ric Gene	erating Pla	ant - Wa	vnesha	oro GA
	12.1	₹ /							vogue Lieet	ric Gene	rating ra	ant va	ynesot	710, 071
SAMP. TYPE AND NO.	SAMPLE +	N-VALUE WATER C ATT. LIMI FINES % 20 40	ONTENT %	1st 6" -x 2nd 6" 00 3rd 6" _ 1x	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC  (* = field c laboratory to of sample b	lassification adju		ION	CHARA DRILLI	R LEVELS, ACTER OF NG AND ATORY
SS 1			: :	1-1-1	17		_		SAND, clayey very loose, ver	(SC) - Rec	d (10R 4/6), r	noist,	Top of	Barnwell
SS 2 SS				1-3-9 10-16-15	16		- - -		contains organ SAA except re	ics	•		0.0 feet	at a depth of
SS 4	X	<b>A</b>		12-18-22	18	215.6_	5- -		- SAA *SAND, silty	(SM)- Yel	lowish brown	(10YR		
SS 5				9-10-7	17	211.6	10-		*SAND, silty (5/8), damp, de nonplastic, cor SAA except m	itains orgai	nics			
SS 6		<b>A</b>		7-9-16	16	209.1_	- - -		CLAY, with s moist, very still very fine grain	and (CL)- ff, low plas ed SAND	Red (10R 4/ sticity, low to	8), ughness,		
SS 7	X	<b>A</b>		9-10-17	15		15— -		*SAND, claye medium dense	y (SC)- Ro , very fine	ed (10R 4/8), grained, non	moist, plastic		
SS 8	X	<b>A</b>		10-14-18	18	200.1	20-		SAA except re grained with so	d (2.5YR 5 ome subrot	5/8), dense, fi inded coarse	ne grained		
SS 9	X	<b>A</b>	+ 1	3-6-9	18	195.1_	25-		*SILT (MH)- stiff, high plas	Olive yell ticity, med	ow (2.5Y 6/8 ium toughnes	3), damp,		
SS 10	X	<b>A</b>		8-10-12	16	190.1_	30-		SAND, with c (10YR 6/8), m grained, nonplienses	lay (SP-SC) edium den astic, conta	C)- Brownish se, fine to me ins trace CL.	yellow edium AY		
SS 11	X	<b>A</b>		5-6-8	19		35-		CLAY (CL)- low plasticity,	Yellow (2. low tough	5Y 7/6), moi ness	st, stiff,		
SS 12	<b>^</b>			3-3-5	19	180.1_	40-		SAA					
SS 13		`		3-4-6	20	175.1_	45—		CLAY, with s moist, stiff, ve low toughness	ry fine grai	Yellow (2.5 ined, low plas	Y 7/6), sticity,		
SS				1-2-4	16	OUTS	- -		SILT (ML) - I loose, low plas	<u>sticity, low</u>	toughness			
		SY: A. TAYLO Y: P. DEPRE				SITE	V	ogtl	e Units 3 & 4 CO Final Log		t		HOLE NO	-3017
<u> </u>						I	257 of	724		<del>-</del>				



GE		TECHNICAL LO	<u> </u>	OJE(		3 & 4	C C	JOB NO.   SHI DL Project   6141-06-0286	EET NO. <b>2</b> OF	HOLE NO. 3 B-3017
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" , z 2nd 6" , O 3rd 6" , Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS 15	X	<b>A</b>	6-7-12	18	170.1_	   55		SAND, with clay (SP-SC)- Pale yellow (27/4), moist, medium dense, very fine grain nonplastic	2.5Y ned,	
SS 16	X	<b>A</b>	9-9-8	15	165.1_ 160.1_	60-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	SAND, with silt (SP-SM)- Pale yellow (2 8/4), wet, medium dense, very fine grained nonplastic	2.5Y d,	
SS 17	X	`	WOR/18"	16		65-		CLAY, with sand (CL)- Pale yellow (2.5 7/3), moist, very soft, low plasticity, low toughness, very fine grained SAND	5Y	Loss of circulaton at a depth of 63.5 feet
SS 18			WOR/30"	22	150.1_	70 <del>-</del>		SAA except pale yellow (2.5Y 8/4), wet		
SS 19	X	<b>A</b>	3-4-8	16		75— -		SAND, with silt (SP-SM)- Pale yellow (2 8/2), wet, medium dense, very fine grained nonplastic	2.5Y d,	
SS 20	X	<b>A</b>	1-1-2	18	138.6_	80-		SAA except very loose		
SS 21			50/1"	1	136.1_	85 <del>-</del> -		*SHELL HASH, with clay (GP-GC) Pa yellow (2.5Y 8/2), moist, very dense, angu +HCL	ular,   1	Top of Utley Limestone at a depth of 83.5 feet Top of Blue Bluff Marl at a depth of 86.0 feet
SS 22 UD	X	<b>⊕</b>	10-13-16	18		90- - - -	-	*SILT (MH) - Greenish gray (GLEY1 5/5GY), damp, very stiff, high plasticity, +		Water level depth at end of 2/19/07 = 65.0 feet
1	$\triangleright$		50/5"			95 — - -				Water level depth at beginning of 2/20/07 = 65.0 feet
SS 23		<b>A</b>		10		100-		SAA except hard		
SS 24	X		10-14-19	19	SITE	105- 	ogtl	SAA except greenish gray (GLEY1 5/10Y) e Units 3 & 4 COL Project		HOLE NO.
						258 of		Final Log		B-3017



GE	EC	TECHNICAL LO	-	OJE(		3 & 4	C	DL Project   JOB NO.   SHEET NO   3 OF	
SAMP. TYPE AND NO.	SAMPLE		1st 6" -7 2nd 6" O 3rd 6" -4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 25	X		30-50/4"	8		110-		SAA except greenish gray (GLEY1 5/5GY)	
UD 2		O		27		115-		SAA Pocket Penetrometer: >4.5 TSF, >4.5 TSF, >4.5 TSF	Pitcher
SS 26	X	<b>A</b>	28-33-29	22		120-		SAA	
SS 27	X	<b>A</b>	14-14-31	22		125-	-	SAA except greenish gray (GLEY1 6/5GY), moist	
SS 28	X	<b>A</b>	12-13-22	18		130-		SAA	
SS 29	X	<b>A</b>	13-14-20	22		135-		SAA	
SS 30	X	<b>A</b>	15-16-28	18		140-		SAA	
SS 31	X		13-50/3"	10		145—		SAA	
SS 32		<b>A</b>	9-9-15	23	72.1_	150-		SAA  Boring terminated at 150 feet	
	,				SITE	259 of		Final Log	HOLE NO. <b>B-3017</b>



GE	ΕΟ	TECHNICAL		ROJEC		3 & 4	l CO	OL Project	JOB NO.	06-0286	SHEET NO		HOLE NO. <b>B-3018</b>
LOGGE	ED B				DINATES			•	ı	BEGUN		COMPL	ETED
DRILLE	ΞR	S. Woodham		DRILL	MAKE AND			88.1 E 6221 HOLE DIAM		2/12/200 HAMMER SE		3/9/2 BER	007  TOTAL DEPTH
		Warren-A.E. Drilli			<b>C</b> ]	ME-7	750	3 I	nches		328848		155.0
GROUI	ND E <b>19.</b> 8	$\nabla$ /	D WATER SI	ΓE:				Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesho	ro. GA
		<u> </u>						· ogue Elece	THE GUIL	or morning in the		JICSSO	10, 311
SAMP. TYPE AND NO.	SAMPLE	► N-VALUE (SPT)  ○ WATER CONTENT S  + ATT. LIMITS %  □ FINES %  20 40 60 8	1st 2no 3ro	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field cl laboratory te of sample by	ON AND CL lassification adju- esting data and/or y field geologist/o	sted based on	ION		LEVELS, CTER OF IG AND ATORY
SS 1	M		1-8-11	16	217.0			SAND, clayey medium dense	(SC)- Rec	d (2.5YR 4/8) ed	), dry,	Top of E Group a	Barnwell t a depth of
SS 2 SS			13-18-20	17				SAA	, 8			0.0 feet	- u - u - u - u - u - u - u - u - u - u
SS 3		<b>^</b>	12-16-15	18		5-		SAA					
SS 4	X	004	7-9-11	18		-		SAA					
SS 5	X	<b>A</b>	11-10-11	18		10-		SAA except re yellow (2.5YR	d (2.5YR 5 6/8), dam	5/8) and brov p	vnish		
SS 6	M	<b>^</b>	8-12-13	12				SAA except re	d (2.5YR 5	5/8)			
SS 7		0. ▲	12-13-14	15		15-		SAA except fin	ne to medi	um grained			
SS 8	X	<b>A</b>	8-11-12	14	202.8_	20-		SAND, silty (S	SM)- Yello dense, fin	owish red (5Y) e grained	~~~~~~ YR 5/8),		
SS 9	X	<b>A</b>	9-13-17	16		25-		SAA					
SS 10	X	<b>4</b> 0	5-6-11	18	187.8	30-		SAA except ye fine grained	ellow (2.5Y	7/6), mediu	ım dense,		
SS 11	X	<b>A</b>	8-7-7	14	182.8_	35-		CLAY, sandy 6/6), damp, sti grained SAND	(CL)- Bro	ownish yellov sticity, fine to	w (10YR o medium		
SS 12	X	<b>A</b>	4-4-7	13		40-		CLAY (CL)-6/4), damp, sti	Light yello	owish brown plasticity	(2.5Y		
SS 13	X	<b>A</b>	4-6-8	16	177.8_ 172.8_	45 –	<i>\\\\</i>	SAND, with si damp, medium	ilt (SP-SM) dense, fin	)- Yellow (2 e grained	5Y 7/6),		
SS	A	<b>A</b>	2-3-3	18		-		CLAY, with s	and (CL)- stiff, low	Pale yellow plasticity	(5Y 7/3),		
		O BY: A. TAYLOR O BY: P. DEPREE			SITE			Units 3 & 4 CO Final Log		t		HOLE NO	3018
						260 o	724						



GE	Ξ(	OTECHNICAL LOC	<u> </u>	OJE(		3 & 4	4 C(	JOB NO.  OL Project 6141-06-0286	SHEET NO	
SAMP. TYPE AND NO.	SAMPLE		1st 6" -N 2nd 6" 05 3rd 6" 11	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NC	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14					167.8_	-				Water level depth at end of 2/12/07 = Ground surface Loss of circulation at
SS 15	X		6-2-5	19	162.8_	55-		CLAY, sandy (CH)- Pale yellow (5Y) damp, medium stiff, medium to high pl contains shell fragments, +HCL	8/4), asticity,	a depth of 52.0 feet Water level depth at beginning of 2/13/07 = 50.0 feet
SS 16	X	<b>A</b>	7-13-13	12	157.8_	60-		SAND (SP) - Yellow (2.5Y 7/6), damp, medium dense, fine grained, -HCL	,	
SS 17	X	7 <b>A</b>	11-10-8	6		65-		CLAY, with sand (CH)- Light yellow brown (2.5Y 6/4), very stiff, medium to plasticity, -HCL	ish o high	
SS 18	X	•	2-3-4	18	152.8_	70-		CLAY (CH) - Pale yellow (2.5Y 7/3), shigh plasticity, -HCL	stiff,	
SS 19	X	, <b>A</b>	6-11-13	18	147.8_	75-		*CLAY, silty (CL-ML)- Pale yellow (7/3), very stiff, low plasticity, contains fragments, +HCL	2.5Y shell	
SS 20	X	<b>A</b>	13-13-17	17	142.8_	80-		*SHELL HASH, clayey (GC)- Pale ye (2.5Y 8/4), damp, dense, +HCL	- — — — — ellow	Top of Utley Limestone at a depth of 77.0 feet
SS 21	X	<b>A</b>	4-9-20	18	137.8_	85-		CLAY (CL) - Pale olive (5Y 6/4), dam stiff, low plasticity, +HCL	p, very	
SS 22	X	<b>A</b>	13-15-16	18	132.8_	90-		CLAY (CL)- Greenish gray (GLEY1 6 damp, hard, low plasticity, +HCL	6/10Y),	Top of Blue Bluff Marl at a depth of 87.0 feet Water level depth at end of 2/16/07 = Ground surface
UD 1			16 19 22	14	126.8_	95- 95-	- <b>   </b> - <b>   </b> - <b>   </b> - <b>   </b>	*SILT, sandy (MH)- Greenish gray (C 5/5GY), damp, high plasticity, +HCL Pocket Penetrometer: >4.5 TSF	GLEY1	Water level depth at beginning of 3/7/07 = 45.0 feet Installed 6" steel casing to a depth of 95.0 feet End logging by S. Woodham.
SS 23	X		16-18-20	25		100-	- - - - -	SAA except greenish gray (GLEY2 5/1 hard	0Y),	Begin logging by L. Davis. Pitcher
SS 24	X		11-50/5"	11		105-	- - - -	SAA except greenish gray (GLEY1 5/1	,	
					SITE	<b>V</b> 261 o		e Units 3 & 4 COL Project Final Log		HOLE NO. B-3018



GE	EC	OTECHNICAL LO		OJE( ogtl		3 & 4	l C	JOB NO.         SHEET NO.           OL Project         6141-06-0286         3 of	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" OO 3rd 6" 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 25	X	⊕	10-22-50/5"	20	107.8_	110-		SAA except greenish gray (GLEY1 6/10Y), contains shell hash	
UD 2		0 ++ 🗆		12	102.8_	115-	-	*SILT (MH) - Greenish gray (GLEY1 6/10Y), damp, hard, high plasticity, contains shell hash, +HCL Pocket Penetrometer: >4.5 TSF	Pitcher  Water level depth at beginning of 3/8/07 = 42.0 feet
SS 26	X		11-11-50/4"	20		120-		CLAY (CL) - Greenish gray (GLEY1 6/10Y), damp, hard, low to medium plasticity, +HCL	12.0 1600
SS 27	X		12-50/5"	14		125-		SAA except low plasticity	
SS 28	X	⊕+▲ □	35-22-30	19	87.8_	130-		SAA except medium plasticity	
SS 29	X	<b>A</b>	19-22-25	25	5715_	135-		*CLAY, with sand (CL)- Light greenish gray (GLEYI 7/5GY), damp, hard, nonplastic to low plasticity, +HCL	
SS 30	X	<b>A</b>	11-15-33	25		140-		SAA except light greenish gray (GLEY1 7/10Y), low plasticity	
SS 31	X	<b>≜</b> 0+ □	10-11-10	24		145-		SAA	
UD 3		O		15	67.8_	150-		SAA except greenish gray (GLEY1 5/10Y and 7/10Y), contains shell hash Pocket Penetrometer: 3.5 TSF	Pitcher
SS 32		*	22-26-32		65.8 <sub>_</sub> 64.8 <sub>_</sub>	155-		SAND, silty (SM)- Gray (2.5Y 6/1), moist, very dense, medium grained, nonplastic, -HCL/SAND, silty, clayey (SC-SM)- Very dark greenish gray (GLEY1 3/10GY), very dense, line grained, low plasticity, +HCL Boring terminated at 155 feet	Top of Still Branch Formation at a depth of 152.0 feet Water level depth at end of 3/8/07 = Top of casing
					SITE	V 262 o		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3018</b>



GE	E01	ECHNIC	AL LO	C	OJEC		3 & 1	1.00	OL Project	JOB NO.	06-0286	SHEET NO		IOLE NO. <b>B-3019</b>
LOGG				•		DINATES					BEGUN	I OF	COMPLE	
DRILLI	ER	M. Harv	ey	D	RILL	MAKE AND			77.4 E 6221		2/26/200 HAMMER SE		3/8/20 SER	007 TOTAL DEPTH
		Melvin-MA(					ME-		61	Inches		219505		153.8
GROU 2	ND EL <b>22.4</b>	DEPTH/EL. G	ROUND WA	TER SIT	E:				Vogtle Elect	tric Gene	erating Pl	ant - Wa	vnesboi	ro, GA
											8		•	
SAMP. TYPE AND NO.	SAMPLE	N-VALUE (SPT) WATER CONT - ATT. LIMITS % FINES %	ENT %	1st 6" - <del>7</del> 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC  (* = field c laboratory t of sample b	ON AND CL classification adjustesting data and/or oy field geologist/o	sted based on	ION		LEVELS, CTER OF G AND TORY
SS		20 40 60	0 80	2-16-18	14	222.4			SAND, silty (S	SM)- Red (	(2.5YR 5/8) 1	to light	Top of B	arnwell
1 SS 2				8-20-32	18		-		SAND, silty (19 gray (2.5Y 7/2) SAA except re 7/8), damp, ve	ed (2.5YR 5 ery dense	5/8) and yello	ow (7.5Y	0.0 feet	a depth of
SS 3		<b>A</b> 🗆		6-15-12	14		5-		SAA except re	ed (10R 4/8	), dry, mediu	ım dense		
SS 4		<b>A</b>		9-9-11	6		-		SAA					
SS 5		<b>A</b>		10-13-11	14		-		SAA					
SS		<b>A</b>		10-19-22	14		10-		SAA except de	ense				
6   SS   7		<b>A</b>		6-12-10	11		-		SAA except m	nedium den	se			
SS 8	X			10-12-12	14	200.4	15-		SAA except re	ed (2.5YR 5	5/8), damp			
SS 9	X	<b>A</b>		7-9-7	6		25 —		<b>SAND, with s</b> 7/8), dry, med	silt (SP-SM ium dense		 0YR		
SS 10	X	<b>A</b>		4-6-7	15	190.4_	30-		SAA					
SS 11	X	<b>A</b>		6-9-10	12	185.4_	35-		<b>SAND, with c</b> 8/4), damp, mo	clay (SP-SC edium dens	C)- Pale yello se	ow (2.5Y		
SS 12		<b>A</b>		3-5-7	18	180.4	40-		CLAY (CL)-	Yellow (2.	5Y 7/6), dan	np, stiff	Water leend of 2/	vel depth at 26/07 =
SS 13	X	<b>A</b>		7-8-12	15	175.4	45-		CLAY, sandy damp, very sti	( <b>CL)-</b> Yel	llow (2.5Y 7	/8),	Water le	vel depth at g of 2/27/07
SS	X	<b>A</b>		7-8-10	8		-		SAND, silty (	<b>SM)</b> - Yello	ow (10YR 7/	6), dry,		
		BY: A. TAYLOR BY: P. DEPREE	·			SITE	263 of	_	e Units 3 & 4 Co Final Log	OL Projec	t		HOLE NO.	3019



GE	EC	OTEC	HN	ICA	L LO		ogtl		3 & 4	C	OL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO		HOLE NO. <b>B-3019</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-V ○ WA  + ATT □ FINI 20	TER C	ONTE	NT %	1st 6" × 2nd 6" OO 3rd 6" ±	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field c	DN AND CLASSIFICAT lassification adjusted based on esting data and/or re-examination y field geologist/engineer)	TION	WATE CHAR DRILL	S ON: ER LEVELS, ACTER OF ING AND RATORY ING
14		- 20	:	:				170.4_	-						
SS 15	X	•				2-3-7	18	165.4	55—		SILT (ML) - I	Pale yellow (5Y 8/3), da	amp, stiff		
SS 16	X		<b>A</b>			6-18-20	8	165.4_	60-		SAND (SP) - I dense	Pale yellow (2.5Y 7/4),	damp,		
SS 17	X	<b>A</b>				8-8-4	5	160.4_	65—		SAND, with s wet, medium of	ilt (SP-SM)- Yellow (2	2.5Y 8/6),		
SS 18	X	<b>A</b>			V	VOR/6"-WOH	/6'1 <del>-</del> &	155.7_	- - 70-		SILT (ML) - Y	Yellow (2.5Y 7/6), dam	p, soft		
SS 19	X					WOR/18"	18		- - 75-		SAA except pa	ale yellow (5Y 8/3)		Loss o	of circulation at
SS 20	X			<b>A</b>		12-24-32	10	145.4_	80-		*SHELL HAS (2.5Y 8/3), we	SH, silty (GM)- Pale yout, very dense, +HCL		1 -	h of 75.0 feet f Utley tone at a depth 0 feet
SS 21						50/2"	2	135.7	85-		SAA				
SS 22	X	4				9-12-16	18		90-		<b>CLAY (CL)</b> - 5/1/5GY), dan	Greenish gray (GLEY) np, very stiff, +HCL	 !	Top of Marl a 86.75	f Blue Bluff it a depth of feet
UD 1			C	)			24	130.4_	95—		SILT (ML) - (5/1/5GY), moi Pocket Penetro	Greenish gray (GLEY1 ist, hard, contains shell ometer: >4.5 TSF	— — — — — hash	Install a dept (casin Grave Pitche	ed 6" casing to h of 93.0 feet g installed by s Drilling) r
SS 23	$\times$					23-50/4"	15	120.4	100-		SAA				
SS 24	X					40-50/2"	5	120.4_	105—		*LIMESTON 5/1/5GY), very	E- Greenish gray (GLI y dense	 EY1	-	
		<u> </u>	:	:	<u> </u>			115.4_ SITE			e Units 3 & 4 Co Final Log			HOLE N	NO. <b>B-3019</b>



GE	EC	TE	СНІ	NIC	AL	LO	~	OJEC ogtl		3 & 4	4 C(	DL Project   JOB NO.   SHEET   SHEET   3	NO. OF <b>3</b>	HOLE NO. <b>B-3019</b>
SAMP. TYPE AND NO.	SAMPLE	○ W + A	ATER ΓΤ. LIN	MITS %	TENT	%	1st 6" - 5 2nd 6" 0 3rd 6" - 3	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOT WAT CHA DRIL	ES ON: ER LEVELS, RACTER OF LING AND DRATORY
SS 25	*		+6		:		26-50/2"	10	110.4	110-	-	*SILT (MH) - Greenish gray (GLEY1 5/1/5GY), damp, hard, contains minor shell hash		
UD 2				0				10		115-		*LIMESTONE - Greenish gray (GLEY1 5/1/5GY) Pocket Penetrometer: >4.5 TSF	Pitch	er
UD 3			0					15	100.4_	120-		SAA Pocket Penetrometer: >4.5 TSF	Pitch	er
SS 26	X		+0	) — – <b> </b>			23-19-38	18		125-		*CLAY (CH) - Greenish gray (GLEY1 6/1/10Y), damp, hard, +HCL		
SS 27	×					,	50/2"	10		130-		SAA except contains minor shell hash		
SS 28	X		<b>A</b>				9-12-18	18		135-		SAA except no shell hash		
SS 29	X			<b>A</b>			20-16-30	18		140-		SAA		
SS 30	X			•			9-29-23	18		145-		SAA		
SS 31	X			4			13-19-40	10	74.4_ 70.4_	150-		SAND, clayey (SC) - Very dark gray and dark greenish gray (GLEY1 4/1/10GY), moist, very dense, -HCL	Top of Form of 14	of Still Branch ation at a depth 8.0 feet
SS 32	×						50/3"	0	68.7_			NO RECOVERY Boring terminated at 153.75 feet		
									SITE	<b>\</b> 265 o		e Units 3 & 4 COL Project Final Log	HOLE	NO. <b>B-3019</b>



GE	ОТ	ECHNICAL L	$\mathbf{C}$	ojec		3 & 4	. CO	OL Project	JOB NO.	06-0286	SHEET NO		HOLE NO. <b>B-3020</b>
LOGGE	ED BY				DINATES			•	1	BEGUN		COMPL	.ETED
DRILLE	R	S. Woodham	С	RILL	MAKE AND			77.9 E 6220 HOLE DIAM		2/19/200 HAMMER SI		3/13/2 BER	<b>2007</b>  TOTAL DEPTH
		Varren-A.E. Drillin			<b>C</b> ]	ME-7	<b>'50</b>	6 I	nches		328848		149.4
GROUI	ND EL. <b>22.4</b>	DEPTH/EL. GROUND \ ♀ / ▼ /	NATER SIT	E:				Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	oro, GA
								8		- 3			
YPE O.		N-VALUE (SPT)	N-COUNT	Y. (in	N O H	FT V	SS					NOTES	ON: R LEVELS,
SAMP. TYPE AND NO.	Ž	WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	VER	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTIO	ON AND CI		ION	CHARA	CTER OF NG AND
SAN		- ATT. LIMITS % ] FINES %		RECOVERY (in)	밀목	DEP	GR	laboratory to of sample by	esting data and/o y field geologist/	r re-examination engineer)		LABOR	ATORY
		20 40 60 80	4.7.10		222.4	_	,,,,		(87)	1 (107 1/0)			
SS 1	X	<b>A</b>	4-7-10 8-14-18	14		-		CLAY, sandy yellowish brow low plasticity	( <b>CL)</b> - Red vn (10YR :	d (10R 4/8), 5/8), dry, vei	and y stiff,	Top of I Group a 0.0 feet	Barnwell at a depth of
SS 2	Ä	<b>A</b>	9-17-17	18	219.2_	-		low plasticity SAA				0.0 1001	
SS 3	X		9-17-17	10		5-		SAND, silty, c 4/8), damp, de	nse, fine to	medium gra	2.5 Y R nined		
SS 4	X	<b>A</b>	10-14-14	18	2144	-		SAA except m	edium den	se			
SS		<b>A</b>	10-12-14	18	214.4_	-		SAND, clayey medium dense	(SC) - Red	 d (2.5YR 4/6	 ), damp,	_	
5		<b>A</b>	0.14.16	10		10-			, finé grain	ied	-		
SS 6	X	7	9-14-16	18	209.4_	-		SAA					
SS 7	X	<b>A</b>	8-11-13	16		-		SAND, silty (S	SM)- Red	(2.5YR 4/8),	damp,		
′					205.4	15-		mediam dense	, mic gram	ica			
					203.4_	-						-	
SS 8	X		9-11-15	12		20-		<b>SAND, with s</b> i (5YR 5/8), dar	<b>ilt (SP-SM</b> np, mediur	I)- Yellowish n dense, fine	red grained		
					200.4_	-							
SS			8-8-10	16		-		CAND with a	ilty alay (6	D CC) Prov	vnich		
9	X					25-		SAND, with si yellow (10YR grained	6/8), damp	o, medium de	ense, fine		
						-							
SS	M	<b>A</b>	9-8-9	12		-		SAA					
10	H					30-							
					190.4_	-						_	
SS 11	X	<b>A</b>	7-7-8	18		-		SAND, silty (\$6/6), damp, me	SM)- Brow	vnish yellow se, fine grain	(10YR ed		
11						35-		·, · /, ·······························		, 8			
						-							
SS 12	M		7-7-9	12		40-		SAA					
					180.4_	-							
SS	H	<b>A</b>	3-7-11	14		-		SAND clavey	(SC)- Val	<sub>0W</sub> (10VP	7/6)		
13	Ä					45 —		SAND, clayey damp, medium contains some	dense, fin black and	e to medium white CLAY	grained, seams		
						-							
SS			3-3-3	16		-		SAA except lo	ose				
		BY: A. TAYLOR			SITE	V	ogtl	e Units 3 & 4 Co		t		HOLE NO	
REVIE	WED B	Y: P. DEPREE				266 of	724	Final Log	5			B.	-3020



A N-VALUE (SPT)			OTECHNICAL LO	$\mathbf{C}$	OJE(		2.0		JOB NO.	SHEET NO	
14			- I E GI III I GAL E G		ogtl	e Units	3 & 4	CO	OL Project 6141-06-0286	<b>2</b> OF	B-3020
SS   WOHNE   18	SAMP. TYPE AND NO.	I≥	○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" - <del>2</del> 2nd 6" O 3rd 6" <u>1</u>	RECOVERY (in)	ELEVATION IN FEET		GRAPHICS	( * = field classification adjusted based on	ATION	WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY
SS	14					170.4	-				
SS	SS 15	X	`	WOH/18"	18	165.4	55 <del>-</del>		CLAY (CL) - Pale yellow (5Y 8/3) very soft, low plasticity, -HCL	damp,	
SS   No.   St.		X	<b>A</b>	13-14-17	18		60-	-	SAND, with silt (SP-SM)- Pale bro 6/3), moist, dense, fine to medium g -HCL	own (10YR grained,	
CLAY, silty (CL-ML)- Yellow (5Y, 8/6),   damp, very soft, low plasticity, -HCL		X	<b>A</b>	5-4-6	12		65-		CLAY (CL) - Pale yellow (5Y 7/4) stiff, low plasticity, -HCL	damp,	-
SS   S   S   S   S   S   S   S   S	SS 18	X	`	WOH/18"	15		70-		CLAY, silty (CL-ML)- Yellow (5Y damp, very soft, low plasticity, -HC	7 8/6), L	
SS Z   Sand with silt (SP-SM)- Pale yellow (5Y 8/3), damp, loose, medium to coarse grained, HCL   CLAY (CL)- Olive (5Y 5/4), damp, stiff, low plasticity, HCL   Top of Utley Limestone at a dep of 88.0 feet water level depth a end of 2/19/07 = 20 (set Top of Utley Limestone at a dep of 88.0 feet water level depth a set level depth a end of 2/19/07 = 20 (set Top of Utley Limestone at a dep of 88.0 feet water level depth a set level depth a set level depth a end of 2/19/07 = 20 (set Top of Utley Limestone at a dep of 88.0 feet water level depth a set	SS 19	X	<b>A</b>	10-9-11	18		75 —		SAND (SP) - Pale yellow (5Y 8/3), medium dense, medium grained, -H	moist, CL	-
SS 21    Solution   So	SS 20	X	<b>A</b>	5-2-7	18	142.9_	80-		CLAY (CL) - Olive (5Y 5/4), damp	low (5Y grained, stiff, low	Water level depth at end of 2/19/07= 20.0
SS 22   9-10-14   22   90   CLAY (CL) - Greenish gray (GLEY1   Top of Blue Bluff Mart at a depth of 84 feet Top of Blue Bluff Mart at a depth of 87.0 feet		×		50/3"	3		85-		CLAY, sandy (CL)- Pale yellow (damp, hard, low plasticity, contains	5Y 8/4), shell	Top of Utley Limestone at a depth of 82.0 feet Water level depth at beginning of 2/20/07 63.0 feet
SS 23	SS 22	X	<b>A</b>	9-10-14	22	133.1_	90-		CLAY (CL) - Greenish gray (GLEY 5/10GY), damp, very stiff, low plas +HCL	71 ticity,	a depth of 84 feet Top of Blue Bluff Marl at a depth of 87.0 feet Water level depth at beginning of 3/12/07
SS 24  UD 1 15  SILT (ML) - Greenish gray (GLEY1 6/10Y), damp, hard, low plasticity, contains shell hash, +HCL  CLAY, silty (CL-ML) - Greenish gray (GLEY1 6/10Y), damp, hard, low plasticity, contains shell hash, Begin logging by I Davis.  CLAY, silty (CL-ML) - Greenish gray (GLEY1 5/5GY), moist, low plasticity, +HCL Pocket Penetrometer: >4.5 TSF  SITE Vogtle Units 3 & 4 COL Project  HOLE NO.	SS 23	X	<b>A</b>	8-9-15	24		95-		CLAY, silty (CL-ML)- Dark greer (GLEY1 4/10GY), damp, very stiff, plasticity, +HCL	ish gray low	
UD 1 1 15 CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/5GY), moist, low plasticity, +HCL Pocket Penetrometer: >4.5 TSF    SITE   Vogtle Units 3 & 4 COL Project   HOLE NO.	SS 24	×		50/5"	11		100-	-	SILT (ML) - Greenish gray (GLEY damp, hard, low plasticity, contains +HCL	1 6/10Y), shell hash,	Woodham.
					15	120.4_	105-		CLAY, silty (CL-ML)- Greenish g (GLEY1 5/5GY), moist, low plastic Pocket Penetrometer: >4.5 TSF	ray ity, +HCL	Davis.
		11				SITE	V	ogtl	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-3020</b>



GE	EC	TECHNICAL LO	<u> </u>	OJE(		3 & 4	4 C	OL Project   JOB NO.   SHEET NO.   SHEET NO.   3 OI	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" 72 2nd 6" O 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (*= field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 25	X	<b>A</b>	22-42-48	25		110-		SAA except greenish gray (GLEY1 6/10Y), damp, hard, contains shell hash	
SS 26	_		50/1"	1	105.4	115-		SAA except greenish gray (GLEY1 6/5GY), moist, contains compacted zones	
SS 27	×		50/5"	7	100.4	120-		CLAY (CL) - Greenish gray (GLEY1 6/10Y), moist, hard, low plasticity, contains compacted zones, +HCL	
SS 28	X	<b>A</b>	19-37-36	14	95.4	125-		CLAY, silty (CL-ML)- Light greenish gray (GLEY1 7/10Y), damp, hard, low plasticity, +HCL	
SS 29	X		18-19-50/5"	24	90.4_	130-		CLAY (CL) - Light greenish gray (GLEY1 7/10Y), damp, hard, medium plasticity, +HCL	
UD 2				25	85.4_	135-		CLAY, silty (CL-ML)- greenish gray (GLEY1 6/10Y to 7/10Y), damp, medium plasticity, +HCL Pocket Penetrometer: 4.0 TSF	Pitcher  Water level depth at beginning of 3/13/07= 40.0 feet
SS 30	X	<b>A</b>	29-26-24	27	80.4_	140-		CLAY (CL) - Light greenish gray (GLEY1 7/10Y), moist, hard, medium plasticity, +HCL	
SS 31	X	<b>A</b>	15-19-27	23	75.4_	145-		CLAY, silty (CL-ML)- Light greenish gray (GLEY1 7/10Y), moist, hard, low plasticity, contains minor shell hash, +HCL	
SS 32	$\boxtimes$		24-50/5"	10	73.0_	-		SAND, silty (SM) - Very dark greenish gray (GLEY1 4/5G), moist, very dense, fine to //medium grained, nonplastic, -HCL J Boring terminated at 149.42 feet	Top of Still Branch Formation at a depth of 147.0 feet
		<u> </u>	I		SITE	<b>V</b>	_	e Units 3 & 4 COL Project Final Log	HOLE NO. B-3020



GEO	TECHNICAL LOC	PROJEC		3 & 4 C	OL Project	JOB NO.	06-0286	SHEET NO		HOLE NO. <b>B-3021</b>
LOGGED	BY		DINATES		<u> </u>	ı	BEGUN		COMPLE	ETED
DRILLER	M. Herrerra	DRILL	MAKE AND		70.2 E 6220 HOLE DIAM		2/16/200 HAMMER SE		3/14/2 SER	2 <b>007</b> TOTAL DEPTH
	Giesecke-Gregg Drilling		C	ME-55	6 I	nches		311025		154.5
GROUND 223	$\nabla$ /	ITE:			Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesho	ro. GA
	<u> </u>				v ogtie Erece	ric Gene	or uting 1 i		y nesso.	10, 311
SAMP. TYPE AND NO. SAMPLE	☐ FINES %		ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIC (* = field c laboratory t of sample by	DN AND CL lassification adjusting data and/or y field geologist/o	sted based on	ION		LEVELS, CTER OF IG AND ATORY
SS	20 40 60 80 : : : : 4-8-12	2 18	223.2		SAND, with s	ilt (SP-SM	)- Red (2.5Y	R 4/8),	Top of E	Barnwell
SS X	12-13-1	14 18	210.0	-	damp, medium SAA except re	d (2.5YR 5	5/8)	0	0.0 feet	a depth of
$\begin{bmatrix} 2 \\ SS \\ 3 \end{bmatrix}$	6-7-9	18	219.9_ 217.7	5-	CLAY (CL) -	Red (2.5Y)	R 5/6), damp	, very		
SS X	7-12-1	4 18			CLAY, sandy very stiff	(CL)- Red	d (2.5YR 5/8	), damp,		
ss 5	8-13-1	5 15	212.7_	10-	SAA					
SS X	6-12-1	3   15	212./_		SAND, clayey medium dense	(SC)- Red , medium g	1 (2.5YR 4/8 grained	 ), damp,		
SS Z	9-10-1	1 15.5		15-	SAA					
ss ×	7-11-1	1 15		20	SAA except re (5YR 5/8), mo	d (2.5YR 5	5/8) and yello	owish red		
SS 9	7-8-9	18	196.2_	25-//	SAA except ye	ellowish re	d (5YR 5/8)			
SS 10	5-6-11	l		30-	CLAY (CL)- stiff	Yellow (10	)YR 7/8), da	mp, very		
SS X	5-6-8	16	191.2_ 186.2	35—	SAND, with s (10YR 5/4) to dense, medium	ilt (SP-SM 10YR 5/6) 1 to coarse	)- Yellowish , moist, med grained	brown		
SS 12	3-4-9	18		40-	SILT (ML) - Volume 1 low plasticity	Yellow (2.5	5Y 7/6), dam	p, stiff,		
SS X	5-9-12	2 10	181.2_	45	SAND, clayey 6/6), moist, mo grained, -HCL	(SC)- Bro	ownish yellov e, medium to	w (10YR o coarse		
ss	4-6-4	18			SAA except re	ed				
	ED BY: A. TAYLOR ED BY: P. DEPREE		SITE	Vogtl	e Units 3 & 4 Co Final Log		t		HOLE NO	3021



GE	EC	OTECHNICAL LO		oje( ogtl		3 & 4 C	OL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO		
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" OO 3rd 6" 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIC  (* = field laboratory of sample t	DN AND CLASSIFICAT lassification adjusted based on testing data and/or re-examination y field geologist/engineer)	TON	NOTES ON: WATER LEVE CHARACTER DRILLING AN LABORATOR' TESTING	OF D
14 SS 15	X	<b>A</b>	6-9-13	13	166.2	55-	SAA except re medium dense	eddish yellow (7.5YR 6, c, low plasticity	/8),	Water level de end of 2/16/07 Ground surface End logging by Herrera. Begin logging Brooks. Water level de beginning of 2.	e y M. by D.
SS 16	X	<b>A</b>	10-14-21	14		60-	SAND, with s moist, dense, 1 -HCL	ilt (SP-SM)- Yellow (2 medium grained, nonpla	5Y 8/6), stic,	- 5.25 feet	
SS 17	X	<b>A</b>	5-6-10	18	161.2_	65 —	CLAY, silty ( 8/3), damp, ve	CL-ML)- Pale yellow ( rry stiff, low plasticity, -	2.5Y HCL		
SS 18	X	<b>A</b>	4-6-8	16		70-	SAA except st	iff			
SS 19	X	<b>A</b>	8-11-15	14	151.2_	75—	SAND, with s 8/2), moist, m -HCL	ilt (SP-SM)- Pale yello edium dense, medium g	w (2.5Y rained,		
SS 20	X	<b>A</b>	14-21-19	15	146.2_	80-80	*SHELL HA yellow (5Y 8/2	SH, silty, clayey (GC-03), moist, dense, +HCL	GM)- Pale	Top of Utley Limestone at a of 77.0 feet	depth
SS 21	X	<b>A</b>	34-42-37	4	137.2	85 - 8	SAA except v	ery dense		Loss of circula a depth of 83.0	
SS 22	X	<b>A</b>	7-9-24	20		90-	SILT (ML) - damp, hard, no	Greenish gray (GLEY1 onplastic, +HCL	5/5GY),	Top of Blue Bl Marl at a depth 86.0 feet	ı of
SS 23	X	<b>A</b>	9-16-18	18	131.2_	95	CLAY, silty ( (GLEY1 4/10) plasticity, con	CL-ML)- Dark greenis Y), damp, hard, nonplas tains shell fragments, +1	h gray tie to low HCL	Water level de beginning of 3, 39.0 feet End logging by Brooks. Begin logging Sharp. Changed from inch to a 5 7/8 drilling bit.	у D. bv B
SS 24	X		50/4"	4		100-	SAA except co	ontains cementation		Water level de end of 3/9/07 =	pth at = 6.5
UD 1		0		12		105—	SAA except al Pocket Penetro	bundant cementation ometer: >4.75 TSF		Water level de beginning of 3. = 3.0 feet Pitcher	pth at /12/07
		: : : :			SITE	Vogt	de Units 3 & 4 C Final Log			HOLE NO. <b>B-302</b>	21



GE	EC	OTECHNICAL LOC	•	ojec ogtl		3 & 4	C	JOB NO. SHEET NO. OL Project 6141-06-0286 3 OF	
SAMP. TYPE AND NO.	SAMPLE	<b>」</b>	lst 6" - 7- 2nd 6" - 6- 3rd 6" - 4-	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 25	X	<b>A</b>	27-38-49	18		- 110-		SAA	Water level depth at end of 3/12/07 = Ground surface
SS 26	X		12-29-50/3"	15		115—		SAA except greenish gray (GLEY1 5/5GY)	Water level depth at beginning of 3/13/07 = 2.0 feet
SS 27	X	<b>A</b>	8-24-29	18		120-		SAA except minor cementation and shell fragments	
SS 28	X	_	28-41-42	18		125—		SAA except greenish gray (GLEY1 6/10Y), no shell fragments	
SS 29	X	<b>A</b>	8-14-17	18		130-		SAA except no shells or cementation	
SS 30	X	<b>A</b>	8-11-19	18		135—		SAA except very stiff to hard	
SS 31	X		16-29-50/4"	16		140-		SAA except hard, contains some cementation	
SS 32	X	<b>A</b>	17-20-32	18		145—		SAA except no cementation	
UD 2		□ 0		10	75.2_	150-		*SAND, with silt (SP-SM)- Very dark greenish gray (GLEY1 3/10Y), wet, medium dense to dense, fine to medium grained, -HCL Pocket Penetrometer: 1.25 TSF	Top of Still Branch Formation at a depth of 148.0 feet Pitcher Water level depth at end of 3/13/07 = 17.0
UD 3				12	68.7_	-		SAA except greenish black (GLEY1 2.5/10Y), dense Pocket Penetrometer: >4.75 TSF Boring terminated at 154.5 feet	end of 3/13/07 = 17.0 feet Water level depth at beginning of 3/14/07 = 31.0 feet Pitcher
					SITE	<b>X</b> 7	oc41	a Unite 3 & 4 COL Dwaiget	HOLE NO.
					JII L	271 of		e Units 3 & 4 COL Project Final Log	B-3021



GE	ΞC	TECHNIC	AL LOG	<u>•</u>	OJEC		2 0 4	C	OI Don's st	JOB NO.	06.0206	SHEET NO		HOLE NO.
LOGG				, ,		e Units . DINATES	3 & 4		OL Project	0141-0	06-0286 BEGUN	<b>1</b> OF		B-3022
		D. Brook	KS				N 114	306	69.8 E 6218	873.4	1/4/200	7	1/9/2	
DRILL	ER			DI	RILL	MAKE AND	MODE	L	HOLE DIAM	IETER	HAMMER SE	RIAL NUMB		TOTAL DEPTH
CDOL	ND	Christian-MA	CTEC	D CITE		C	ME-	75	3 ]	Inches		200587		150.0
GROU 2	23.	$\nabla$ /	ROUND WATE	R SITE	Ξ:				Vogtle Elect	tric Gene	erating Pl	ant - Wa	ynesb	oro, GA
SAMP. TYPE AND NO.	Ш	▲ N-VALUE (SPT	, l	N-COUNT	RECOVERY (in)	N_	ᇤ	တ္လ					NOTES	
₹.0	<b>IPL</b>	O WATER CONT	ENT %	1st 6" 2nd 6" 3rd 6"	ŒR	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTION	ON AND CI	ASSIFICAT	ION		R LEVELS, ACTER OF
AMP AND	SAMPL	+ ATT. LIMITS %	<b>I</b>	3 2	00	LEV R F	ΞΡΤ	ik.	( * = field (	classification adjustesting data and/or oy field geologist/o	sted based on			NG AND RATORY
S)		☐ FINES %			R	Ш	ä		of sample t	by field geologist/	engineer)		TESTI	
SS	<u> </u>	20 40 60	0 80	2-2-2	6	223.9	_	Tr Sect	CAND (CD)	Daddigh hr	(5VD 4/	4)	Top of	Damyyall
1	X	<b>A</b>		2-2-6	10		-		SAND (SP) - damp, loose, f SAA except y	ine to medi	um grained	+),	Group	Barnwell at a depth of
SS 2	Д			220	10		_		SAA except y	enowish re	u (31K 3/8)		0.0 100	
SS 3		•		6-8-12	14	218.4	5-		SAA except n	nedium den	se			
SS	M	<b>A</b>	:	7-11-14	15	210.4_	-		SAND, with s	silt (SP-SM	 DRed (10R	4/8),		
4							-		nonplastic					
SS 5	M	T I		7-15-26	16	213.4	10-		SAA except y low plasticity	ellowish re	d (5YR 5/8),	dense,		
SS	M	<b>A</b>		6-4-7	15	213.1_	-		SILT (ML)-	Reddish yel	llow (7.5YR	6/8),		
6		<b>A</b>		4-6-11	18		-							
SS 7	X			4-0-11	18		15-		SAA except r	red (2.5 Y R	4/8)			
						206.9	-							
						200.7_	_							
SS 8	X			6-11-13	19		20		SAND, with (7.5 YR 6/8), grained, low p	clay (SP-SC	C)- Reddish y	vellow nedium		
						201.0	20-		grained, low p	lasticity, -I	HCL			
						201.9_	-							
SS	M	<b>A</b>	:	6-7-13	18		-		SAND, with s	şilt (SP-SM	)- Reddish y	ellow		
9	H						25—		SAND, with s (7.5YR 6/8), o medium grain	damp, medi ed, low plas	um dense, fii sticity, -HCL	ne to		
						196.9_	-							
SS	$\mathbb{H}$	<b>A</b>	:	4-7-10	18		-		SILT (ML)-	Brownish v	ellow (10YR	5/8)		
10	Å						30-		SILT (ML) - I damp, very sti	ff, low plas	sticity, -HCL	. 5, 6),		
						191.9_	-							
00				6-9-12	16		-		CANID '41	:14 (CD C) *	De	*********		
SS 11	Д		:	0-9-12	10		35-		SAND, with s (10R 6/8), dar grained, nonpl	np, medium	n dense, med	yellow		
						186.9	-		granicu, nonp	iastic, -HCI	_			
							-							
SS 12	$\mathbb{X}$	^	:	5-5-8	18		40-		CLAY, silty v yellow (10YR	with sand ( 6/8), damn	CL-ML)- Br	ownish lasticity.		
						182.1	40-		-HCL	<i>,,</i> <b>T</b>	. , - · · <b>r</b>	J 2		
						104.1_	-							
SS	M	<b>A</b>		4-12-28	18		-		<b>SAND</b> , with s (10YR 8/4), d	silt (SP-SM	)- Very pale	brown		
13	H						45 —		shell fragment	ts, +HCL	, nonpiastic,	Comains		
						176.9_	-	Ш						
SS	$\forall$	<b>A</b>		10-17-18	16		-		SAND, with (8/1), damp, de	clay (SP-SC	C)- White (7.	5YR		
	_/∖\ ARE	D BY: A. TAYLOR	;			SITE	V	ogtl	8/1), dámp, de e Units 3 & 4 C			ontains	HOLE N	0.
		D BY: P. DEPREE							Final Log				В	-3022
							272 of	ı 24						



GE	EC	OTECHNICAL		OJE(		3 & 4	C		ET NO. <b>2</b> OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT   + ATT. LIMITS %  □ FINES %  20 40 60 8	lst 2m 3rc	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40 00 0			171.9_	-		shell fragments, +HCL		
SS 15	X	<b>A</b>	8-13-16	10		- - 55—		SAND (SP) - Very pale brown (10YR 8/4), damp, medium dense, medium grained, -Ho	ČL	
SS 16	X	<b>A</b>	10-11-18	14	161.9	60-		SAA except contains shell fragments, +HC	EL	
SS 17	X	<b>A</b>	12-13-17	18	156.9	65—		SAND, with clay (SP-SC)- White (7.5YR 8/1), damp, medium dense, fine to medium grained, low plasticity, contains shell fragments, +HCL		Loss of circulation at
SS 18	X	<b>A</b>	1-1-2	14	100.7_	70 <del>-</del>		SAND (SP) - White (7.5YR 8/1), damp, verloose, medium grained, -HCL		a depth of 66.0 feet Installed 3" steel casing to a depth of 75.0 feet
SS 19	X	<b>A</b>	6-7-9	13		  75		SAA except medium dense		Water level depth at end of 1/04/07 =
SS 20	X	•	1-1-1	12	142.4_	80-		SAA except moist, very loose		ground surface  Water level depth at beginning of 1/05/07 = 70.0 feet Casing adavanced to a depth of 85.0 feet
SS 21	×		50/3"	0	136.9	85—		NO RECOVERY		
SS 22	X	<b>A</b>	10-11-18	18	130.7_	90-		SILT (ML) - Greenish gray (GLEY2 5/1), damp, very stiff, non plastic, +HCL		Top of Blue Bluff Marl at a depth of 87.0 feet
SS 23	X	<b>A</b>	10-14-26	16	126.9	95—		SAA except hard		
SS 24	×		50/2"	0		100-		NO RECOVERY		Water level depth at end of 1/05/07=
SS 25	X		11-16-50/4"	15	121.9_	- - 105—		SAA		ground surface Water level depth at beginning of 1/08/07 = 63.25 feet
					SITE	V 273 of		e Units 3 & 4 COL Project Final Log	ı	HOLE NO. <b>B-3022</b>



		TECHNICAL LOC	•	OJE(		3 & 4	l C	JOB NO. SHEET NO. <b>OL Project</b> 6141-06-0286 3 or				
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" 75 2nd 6" 05 3rd 6" 25	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING			
SS 26	X		26-44-50/5"	18		110-	-	SAA				
SS 27	$\boxtimes$	•	18-50/3"	6	1050	115-	- - -	SAA				
SS 28	X	<b>A</b>	31-40-49	18	106.9_	120-		CLAY, silty (CL-ML)- Greenish gray (GLEY2 5/1), damp, hard, low plasticity, +HCL				
SS 29	X	•	18-40-50/2"	16	101.9_	125—	-	SILT (ML) - Greenish gray (GLEY2 5/1), damp, hard, non plastic, HCL+				
SS 30	X	<b>A</b>	14-41-43	18		130-	-	SAA except low plasticity	Water level depth at end of 1/08/07 = ground surface			
SS 31	$\boxtimes$	•	27-50/3"	8		135—	- - -	SAA	ground surface Water level depth at beginning of 1/09/07 = 63.25 feet			
SS 32	X	<b>A</b>	9-19-29	18		140-	-	SAA except nonplastic				
SS 33	X	<b>A</b>	8-12-17	18	77.4_	- - 145—	-	SAA except very stiff				
SS 34	X	<b>A</b>	21-34-44	16	73.9_	150-		SAND (SP) - Dark greenish gray (GLEY1 4/1), damp, very dense, fine to medium grained, +HCL Boring terminated at 150 feet	Top of Still Branch at a depth of 146.5 feet			
SITE Vogtle Units 3 & 4 COL Project Final Log  274 of 724  HOLE NO. B-30												



GI	E01	ECHNICAL		ROJEC Vogtl		3 & 4 C	OL Project	JOB NO.	06-0286	SHEET NO		NO. 3023
LOGG	ED BY	D.CL. I			DINATES		<u> </u>		BEGUN		COMPLETED	)
DRILL	ER	R. Clark		DRILL	MAKE AND	MODEL	61.1 E 6210 HOLE DIAM		2/16/200 HAMMER SE		2/18/2007 SER TOT	AL DEPTH
		ey-MILLER DR		TC.	C	ME-85	6 ]	nches		270256	-	150.5
	ND EL <b>22.8</b>	DEPTH/EL. GROU	ND WATER  SI	TE:			Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesboro,	GA
SAMP. TYPE AND NO.	SAMPLE	N-VALUE (SPT)  WATER CONTENT  ATT. LIMITS %  FINES %	1st 6" - 2 2nd 6" - 2 2nd 6" - 2 2nd 6" - 2	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIC  (* = field t laboratory of sample t	ON AND Cl elassification adju esting data and/o by field geologist/	sted based on	ION	NOTES ON: WATER LEV CHARACTE DRILLING A LABORATO TESTING	R OF ND
SS	₩ 4	20 40 60	2-3-6	17	222.8		SAND, with o	lay (SC)-1	Red (2.5YR)	1/8),	Top of Barny	vell
1 SS 2 SS		<b>A</b>	3-5-10 13-20-22	9 2 19	218.8_		SAA except m	nedium den	se		Group at a de 0.0 feet	epth of
3 SS 4	X	<b>A</b>	7-16-19	15	214.8	5-	SAND, with s (10YR 6/6), d nonplastic, mo SAA except re	ilt (SP-SM amp, dense ostly quartz ed (10R 4/8	I)- Brownish e, very fine gr s sand B), medium do	yellow rained, ense		
SS 5	X	<b>A</b>	7-8-10	9		10-	SAND, with c (7.5YR 4/6) m non to low pla	sticity				
SS 6 SS 7	X	<b>A</b>	7-9-10	17			SAA except re nonplastic	ed (10K 4/6	o), very fine g	grained,		
SS 8	X	<b>A</b>	9-14-16	17	200.8_	20-	SAA except r	ed (2.5YR	5/8), dense			
SS 9	X	<b>^</b>	3-9-13	14	195.8_	25-	CLAY (CL)- very stiff, low SAND lamina	Yellowish plasticity, ted through	red (5YR 5/8 contains a tranout last 2" of	B), moist, ace of fine f sample		
SS 10	X	<b>A</b>	9-14-13	15		30-	SAND, with of 5/8) moist, me nonplastic	elay (SC)- edium dens	Strong browr e, fine graine	n (7.5YR d,	Water level of end of 2/16/0 Ground surfa	)7 <sup>*</sup> =
SS 11	X	Å	7-9-11	18	185.8	35-	SAA except be contains traces	rownish ye s of CLAY	llow (10YR ( lenses	6/8),	Water level of beginning of = Borehole d	
SS 12	X	•	5-9-12	13	180.8	40-	SILT (ML)- stiff, low plast observed, con	Yellow (10 icity, low tains traces	YR 7/8), moreoughness, lar	ist, very ninations SAND		
SS 13	X	<b>A</b>	4-5-9	20	175.8	45-	CLAY (CL)- low plasticity,	Yellow (2. low tough	5Y 7/6), moiness	st, stiff,		
SS		A TAYLOR	7-9-10	12	I/3.6_	-	SAND, with a (10YR 6/8), m			yellow e grained,	HOLE NO.	
		BY: A. TAYLOR BY: P. DEPREE			SIL	V ogt.	le Units 3 & 4 C Final Log				B-30	23



GE	OTECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	· C(	JOB NO. SHEET NO. SHEET NO. 2 O	
SAMP. TYPE AND NO. SAMPI F	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" - z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (*= field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 00 80				_		nonplastic	
SS 15	<b>A</b>	5-7-10	16		55—		SAA	
SS 16		8-9-11	15		60-		SAA	
SS 17	<b>A</b>	8-10-14	15	160.8_ 156.3	65—		SAND, with silt (SP-SM)-Light yellowish brown (10YR 6/4), wet, medium dense, fine to medium grained, nonplastic	
SS 18		WOH/18"	16	130.3_	70—		CLAY, with sand (CL)- Light yellowish brown (2.5Y 6/3), wet, very soft, low plasticity, low toughness, fine grained SAND, -HCL	Loss of circulation at a depth of 66.5 feet
SS 19		WOH/18"	12		75—		SAA	
SS 20	<b>A</b>	2-4-3	8	145.8_	80-		SAND, with clay (SP-SC)- Pale yellow (5Y 8/3), wet, loose, fine grained, nonplastic, low toughness	
SS 21		50/1"	1	139.3_ 136.8_	85—		*SHELL HASH, with clay (GP-GC) Pale yellow (2.5Y 8/4), wet, very dense, angular grave consists of cemented limestone fragments, fossils observed, +HCL	Top of Utley Limestone at a depth of 83.5 feet
SS Z2	<b>A</b>	7-12-17	18		90-		CLAY (CH) Dark greenish gray (GLEY1 4/5GY), damp, very stiff, high plasticity, +HCL	Top of Blue Bluff Marl at a depth of 86 feet
UD 1	0		11		- - 95—		SAA except hard, high toughness Pocket Penetrometer: >4.5 TSF, >4.5 TSF, >4.5 TSF	Pitcher
SS 23		11-19-50/3"	16		100-		SAA except medium toughness	
UD 2	+0- ⊟+		18		105—		SAA Pocket Penetrometer: >4.5 TSF, 4.0 TSF, 4.5 TSF.	Pitcher Water level depth at end of 2/17/07 = 67.0 feet
				SITE	V	ogtl	e Units 3 & 4 COL Project	Water level depth at HOLE NO.
							Final Log	B-3023



GE		TECHNICAL LO		OJE(		3 & 4		JOB NO. SHEET 6141-06-0286 3	NO. OF <b>3</b>	HOLE NO. <b>B-3023</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOT WA <sup>-</sup> CHA DRII LAB	TES ON: TER LEVELS, ARACTER OF LLING AND ORATORY
SS 24	X	20 40 60 80	12-12-50/3"	23		110-		SAA except greenish gray (GLEY1 5/5GY), moist	begi = 65	nning of 2/18/07 .0 feet
UD 3		0		17		115-		SAA Pocket Penetrometer: >4.5 TSF, >4.5 TSF, 2.3 TSF	Pitcl	<b>1</b> ег
SS 25	X	•	8-8-15	19		120-		SAA except greenish gray (GLEY1 5/10Y), very stiff		
SS 26	X	<b>A</b>	16-17-14	22		125-		SAA except greenish gray (GLEY1 6/5GY), hard		
SS 27	X	<b>A</b>	8-12-15	20		130-		SAA except very stiff		
SS 28	X	<b>A</b>	17-33-22	20		135-		SAA except hard		
SS 29	X	•	17-22-19	22		140-		SAA		
SS 30	$\boxtimes$		19-50/3"	20		145-		SAA		
UD 4		Ο		30	73.8 <sub>_</sub> 72.3 <sub>_</sub>	150-		SAA SAND, with silt (SP-SM)- Very dark greenish gray (GLEY1 3/10Y), moist, mediur dense, very fine grained, nonplastic, -HCL Boring terminated at 150.5 feet	Pitcl Top Form of 1	ner of Still Branch nation at a depth 49.0 feet
					SITE	V	ogtl	e Units 3 & 4 COL Project	HOLE	
						277 o	· = · ·	Final Log		<b>B-3023</b>



GE	OTEC	HNICAL LO	<b>1</b> C	OJEC		3 & 1	CC	OL Project	JOB NO.	06-0286	SHEET NO		HOLE NO. <b>B-3024</b>
LOGGE	D BY				DINATES	<i>3</i>		)L i i oject	0141-0	BEGUN	1 OF	COMPL	
DRILLER		. Pillappa		RILI	MAKE AND	N 114		05.8 E 6213 HOLE DIAM		2/20/200 HAMMER SE		2/27/2	2007 TOTAL DEPTH
		ks-MACTEC		····		ME-5			nches		337153	,_,	150.0
GROUN	D EL. DE 0.2 ♀ ↓	PTH/EL. GROUND WA	ATER SIT	E:				Vogtle Elect	rio Cone	mating DI	ant Wa	vnosho	mo CA
	<u>0.2                                    </u>	/						v ogue Elect	ric Gene	rating 11	ant - ** a	ynesbu	10, GA
SAMP. TYPE AND NO.		LIMITS % 40 60 80	1st 6" -z 2nd 6" 0 3rd 6" 1z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory t of sample b	DN AND CL lassification adjusting data and/or y field geologist/or	sted based on	TION		LEVELS, CTER OF NG AND ATORY
SS	A 20	40 00 00 : : : :	5-4-5	11	220.2	-		SAND, silty (s	SM)- Red (	(2.5YR 4/8),	dry to	Top of I	Barnwell t a depth of
1 SS 2 SS 3			11-11-12 5-7-8	9.5		-		SAA except st dense	rong browi	n (7.5YR 4/6	), medium	0.0 feet	t a depth of
	X .					5-		SAA					
SS 4			2-3-2	9		-		SAA except st	rong browi	n (7.5YR 5/6	), loose		
SS 5			2-3-4	13		10-		SAA except ye	ellowish re	d (5YR 5/6)			
SS 6			4-9-11	16		-		SAA except re	ed (2.5YR 4	1/8), medium	dense		
SS 7	<b>A</b>		9-13-13	13.5		-		SAA					
					203.2_	15- - -							
SS 8	<b>A</b> C		5-8-10	16		20-		SAND, clayey damp, medium plasticity	(SC)- Red dense, fin	d (2.5YR 4/8 e grained, lo	), dry to w		
SS 9	<b>A</b>		7-10-15	13		25-		SAA except co	ontains CL	AY seams			
SS 10	•		3-4-7	16		30-		SAA except by contains CLA	rownish ye Y seams an	llow (10YR od phosphate	6/6), grains		
SS 11	•		4-4-7	13	183.2_	35—		SAA except da	amp				
SS 12	•		3-4-5	18	103.2_	40-		CLAY, silty v yellow (10YR plasticity, fine seams and trace	vith sand ( 6/6), damp grained SA e phosphat	CL-ML)- Brown stiff, media AND, containes	rownish im ns SAND		
SS 13	<b>A</b>		3-3-3	18	173.2	45 —		SAA except m	edium stiff	f			
ss	<b>A</b>		5-7-6	16.5	1,3.2	- - -		SAND, clayey 5/8), damp, mo	(SC)- Stro	ong brown (7	7.5YR ed. low		
	RED BY: A. T		1		SITE	V	ogtlo	e Units 3 & 4 Co Final Log	OL Projec	t	, 11	HOLE NO	-3024
INC VIEW	/ED BY: P. D	LI NLL				278 of	724	THIALLO	5			ъ.	JU47



GEO	OTECHNICAL LOC	<u> </u>	OJEC		2 0 4	C	DI Davida A	JOB NO.	SHEET NO		
		-	ogtio	Units	3 & 4		OL Project	6141-06-0286	<b>2</b> OF	3 B-302	.4
SAMP. TYPE AND NO. SAMPLE		1st 6" - 75 2nd 6" - 60 3rd 6" - 74	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field cla	ON AND CLASSIFICATI assification adjusted based on sting data and/or re-examination r field geologist/engineer)	ON	NOTES ON: WATER LEVELS CHARACTER OI DRILLING AND LABORATORY TESTING	
14	20 40 00 00				_		plasticity, conta	ains trace phosphate gra	ins		
SS 15	<b>A</b>	2-4-4	18		- - - 55 —		SAA except ye	ellowish brown (10YR 5	5/6), loose		
SS 16	<b>A</b>	6-8-9	17	158.2_	60-		SAA except ye	ellowish red (5YR 5/8)		Water level depth end of 2/20/07 =	h at Top
SS 17	, 🗆 🛦	5-8-11	12	130.2_	65—		*SAND, with (10YR 6/6), da plasticity, conta	clay (SP-SC)- Brownisi imp, loose, fine grained, ains CLAY seams	h yellow , low	of casing  Water level depth beginning of 2/21 = 35.0 feet	1 at 1/07
SS 18	<b>A</b>	9-6-7	6		70-		SAA except ve	ery pale brown (10YR 7	/4)		
SS 19	<b>A</b>	2-3-4	18		75-		SAA except ye	ellow (10YR 8/6), loose			
SS Z	, <b>A</b>	2-2-4	18	138.2_	80-		SAA except ye	ellow (2.5Y 7/6)			
SS 21	<b>A</b>	8-7-8	18	136.2_	85—		*CLAY (CH) stiff, low plasti fragments and	- Pale yellow (5Y 7/4), city, contains trace shel phosphate grains, +HCl	dry, l	Top of Blue Bluf Marl at a depth o 82.0 feet	f f
SS X		18-50/4"	12		90-		SAA except da 4/10Y), hard	ark greenish gray (GLE	Y1		
SS Z3		8-12-16	18		95-		SAA except da 4/10GY), dry to	ark greenish gray (GLEV o damp, very stiff	Y1	Water level depth end of 2/21/07 =	h at Top
UD 1	o o		22		100-		SAA except gredamp, contains Pocket Penetro	eenish gray (GLEY1 5/s cemented SAND in bo meter: >4.5 TSF	5GY), ttom	of casing Pitcher	
SS 24		50/3"	9		105		SAND	y to damp, contains cen		Water level depth end of 2/26/07 = of casing  Water level depth beginning of 2/27 = 34.0 feet	
				SITE	V 279 of	_	e Units 3 & 4 CC Final Log			HOLE NO. <b>B-3024</b>	<u> </u>



GE	OTECHNICAL LO		OJEC ogtl		3 & 4	C C	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 or		HOLE NO. <b>B-3024</b>
SAMP. TYPE AND NO. SAMPI F	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - 2 2nd 6" O 3rd 6" - 3	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	CHAR. DRILL	R LEVELS, ACTER OF ING AND RATORY
SS ≥ 25	20 40 00 00	50/5"	9		110-		SAA		
SS × 26		7-50/6"	16		- - 115—		SAA		
UD 2	+		16		120-		SAA except dark greenish gray (GLEY1 4/5GY to 5/5GY), damp, contains cemented SAND in bottom Pocket Penetrometer: >4.5 TSF	Pitcher	
SS 27		50/2"	6		125-		SAA except greenish gray (GLEY1 5/5GY), dry to damp		
SS ×		34-50/1"	11		130-		SAA		
SS 29		12-22-50/3"	18		135-		SAA except greenish gray (GLEY1 6/5GY)		
SS 30	•	31-21-32	18		140-		SAA		
SS 31		6-8-11	18		- - 145—		SAA except very stiff		
SS 32		8-20-18	18	70.2_	150-		SAA except hard  Boring terminated at 150 feet		
				SITE	V 280 of		e Units 3 & 4 COL Project Final Log	HOLE N	o. B-3024



	ROJEC		3 & 4	CO		OB NO.	6-0286	SHEET NO		IOLE NO. <b>B-3025</b>
		DINATES			0.4 E 621425	5 3	BEGUN 2/2/200'		2/7/20	TED
DRILLER D. SHALP	DRILL	MAKE AND			HOLE DIAMETE	ER I	HAMMER SE			TOTAL DEPTH
Oglesby-MACTEC  GROUND EL. DEPTH/EL. GROUND WATER SI	ITE:	C	ME-7	5	6 Inc	ehes		219907		150.0
218.2 ¥ /				•	Vogtle Electric	c Gener	rating Pla	nt - Wa	ynesboi	ro, GA
AN-VALUE (SPT)  O WATER CONTENT %  1 st 6  P TO I SAMP I ST 1  O WATER CONTENT %  Fig. 1  Fig. 2  Fig. 2	Srd 6" ¬ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION (* = field classifiaboratory testin of sample by field	fication adjuste	ed based on	ON		LEVELS, CTER OF G AND TORY
SS	15	218.2 217.2	•		GRAVEL, with	sand (GF	P)- Dark gra	v (5Y	Top of F	ill at a denth
1 SS 2 8-10-11 5-7-7	10	214.2_	5—		4/1), moist, medicoarse grained SASAND (SP) - Red (7.5YR 6/8), mois SAA except red (CLAY *SAND, clayey (moist, medium demonstration of the same statement	um dense AND I (2.5YR st, mediu 2.5YR 4/	4/8), reddisl m dense, fin 8), contains	yellow e grained some	Top of B	ill at a depth et arnwell a depth of
SS 4 5-6-6 SS 7 4-7-7	15				SAA	ense, line	grained			
SS V • 9-9-11			10		SAA					
SS 7	12				SAA					
SS 8 5-7-9	11	201.6_	20-		SAND, silty (SM 6/8), moist, medic grained, subhorize	 I)- Reddis um dense ontal stru	sh yellow (7, fine to coocture	.5YR nrse		
SS 9 5-9-7	11	191.6_	25-		SAA except conta SAND (SP) and c of black mangane	ains zone clayey SA ese stainir	s of poorly g ND (SC), a ng	graded nd a trace	Water levend of 02 Ground s	vel depth at 2/02/07 = surface
SS 10 4-8-9	9		30-		SAND, clayey (S (10YR 6/8), mois grained, subhorize	SC)- Brov st, mediur contal stru	wnish yellov n dense, me leture	v dium	beginnin = Boreho	caved to a
SS 11 3-4-5	18		35-		SAA except yello grained, contains of yellowish brow	ow (2.5Y very thin vn (10YR	7/6), loose, subhorizon 5/8) SAND	fine tal lenses		
SS N 2-3-4	18		40-		SAA except does lenses	not conta	ain structura	l SAND		
SS 13 4-7-7	18	171.6_	45-		SAA except medi subhorizontal lam fragments, and a t staining, and mice	ninations, trace of b	ed, contains scattered w lack manga	thin hite shell nese		
SS 📈 🛕 3-3-4	18		-		SAND, silty (SM loose, fine grained	Ŋ- Yellov d, -HCL	v (2.5Y 7/6)	, moist,		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vo		Units 3 & 4 COL Final Log	Project			HOLE NO.	3025



GE	ΞC	OTECHNICAL LO		OJE(		3 & 4	- C	JOB NO. SHEET 6141-06-0286 2	NO. OF <b>3</b>	HOLE NO. <b>B-3025</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>7</del> 2nd 6" O 3rd 6" - <del>7</del>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NC WA CH DR LA	OTES ON: ATER LEVELS, ARACTER OF ILLING AND BORATORY STING
14					166.6_	-				
SS 15	X	<b>A</b>	6-10-10	18	161.6_	55— -		SAND, clayey (SC)- Light yellowish brown (2.5Y 6/3), brownish yellow (10YR 6/8), moi medium dense, medium grained, contains trac of white shell fragments, traces of black manganese staining, thin subhorizontal laminations, -HCL	t, es	
SS 16	X	<b>A</b>	10-13-14	15	156.6_	60-		SAND, silty (SM)- Light brown (7.5YR 6/4) yellow (2.5Y 7/8), moist, medium dense, fine medium grained, subhorizontal structure, -HC	to L	
SS 17	X	<b>A</b>	10-15-9	10	151.6_	65 —		SAND, with silt (SP-SM)- Pale yellow (2.5Y 7/4), moist, medium dense, fine to medium grained, -HCL		
SS 18	X	<b>A</b>	2-3-4	18		70-		SAND, silty (SM)- Pale yellow (5Y 8/2), moist, looose, medium to coarse grained, contains shell fragments in a limey mud matri-HCL	ζ,	
SS 19	X	<b>A</b>	7-14-17	14	144.6_ 143.7_	- - 75—		SAA except dense SILT, with sand (ML)- Pale yellow (5Y 8/3) moist, hard, low plasticity, very thin subhorizontal laminations, contains fine grain		
SS 20	X	<b>A</b>	10-10-18	18		80-		SAND, +HCL SAND, silty (SM)- Pale yellow (2.5Y 7/3), moist to wet, dense, medium to coarse grained contains shell fragments and 0.5-inch thick sil lens, +HCL SAA except Pale yellow (5Y 8/4), wet, mediudense, fine grained	:	
SS 21	$\times$		13-50/3"	9	134.7_	85-		SAND, silty (SM)- Pale yellow (5Y 8/2), wet yery dense, contains cemented shell fragments in a carbonate mud matrix, +HCL	Top Lin of S Wa	o of Utley hestone at a depth 33.5 feet ter level depth at 0 of 02/05/07 = 3.0
SS 22	X	<b>A</b>	10-13-19	18	126.2_	90-		SILT, with sand (ML)- Pale olive (5Y 6/3), yellowish brown (10YR 5/8), moist, hard, nonplastic to low plasticity, contains fine grained yellowish brown SAND lenses, +HCI	Wa beg = 4 Bo der	tter level depth at ginning of 02/06/07 5.0 feet rehole caved to a oth of 80.0 feet
SS 23	X	<b>A</b>	13-17-23	18		95—		SILT (ML) - Dark greenish gray (GLEY1 4/10Y), damp, hard, nonplastic to low plasticity, very thin subhorizontal laminations contains fine grained SAND and white shell fragments, +HCL	92.	o of Blue Bluff rl at a depth of 0 feet
SS 24	X	<b>A</b>	16-16-13	18		100-		SAA except very stiff, contains localized partially cemented zones, not evidence of shell fragments	1	
UD 1		0		24		105-		SAA except very stiff to hard Pocket Penetrometer: >4.5 TSF	Pite	cher
	1 1	<u> </u>	I		SITE	V	ogtl	e Units 3 & 4 COL Project	HOL	E NO. <b>B-3025</b>
					1	282 of		Final Log		ローフリムフ



GE		TECHNICAL LO	<u> </u>	OJE(		3 & 4	l C	OL Project   JOB NO.   SHEET NO.   SHEET NO.   3 0	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" o 3rd 6" ±	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (*= field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 25	8	,	50/2"	1.5		110-	-	SAA except hard, contains abundant cementation	
SS 26	×		50/5.5"	5	101.6	115-	- - - -	SAA except greenish gray (GLEY1 5/10Y), contains scattered white shell framents	Water level depth at end of 02/06/07 = 7.0
SS 27	X	<b>A</b>	41-41-30	18		120-	-	SILT, with sand (ML)- Greenish gray (GLEY1 5/10Y), damp to moist, hard, nonplastic to low plasticity, contains fine SAND and scattered white shell fragments, few thin zones partially cemented, very thin subhorizontal laminations, +HCL	feet  Water level depth at beginning of 02/07/07 = 46.0 feet
SS 28	X	<b>A</b>	34-24-49	18		125-	-	subhorizontal laminations, +HCL  SAA, cemented layers at 123.8 to 123.9 feet, 124.2 to 124.3 feet and 124.7 to 124.8 feet, contains trace shell fragments	
SS 29	X	<b>A</b>	25-13-15	18	86.2_	130-	- - -	SAA except greenish gray (GLEY1 6/10Y), very stiff, few thin layers with cementation from 128.5 to 129 feet	
UD 2		⊕+ □		16.5		135-		*CLAY, with sand (CH)- Greenish gray (GLEY1 6/10Y), very stiff, damp to moist, high plasticity, trace shell fragments, +HCL Pocket Penetrometer: >4.5 TSF	Pitcher
SS 30			50/1"	1		140-		SAA	
SS 31	X	<b>A</b>	42-22-30	18		145-		SAA except no evident structure, cementation or shell fragments	
SS 32	X	<b>A</b>	11-14-21	18	68.2_	150-		SAA  Boring terminated at 150 feet	
					SITE	V 283 of	_	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3025</b>



	PROJEC		2 0 4 4	COL	D	JOB NO.	VC 020C	SHEET NO		HOLE NO.
LOGGED BY		e Units . Dinates	3 & 4 (	COL	Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPLE	B-3026 ETED
B. Sharp	2011				2 E 6214		2/7/200		2/13/2	
Oglesby-MACTEC	DRILL	MAKE AND	мобец :МЕ- <b>7</b> :		HOLE DIAM	nches	HAMMER SE	RIAL NUMB <b>219907</b>	ER	TOTAL DEPTH 149.2
GROUND EL. DEPTH/EL. GROUND WATER S	ITE:		1,1112 7,							
215.8 💆 /		I		Vo	gtle Elect	ric Gene	erating Pla	ant - Wa	ynesboi	ro, GA
AMP N-VALUE (SPT)  O WATER CONTENT %  Is 6 6 6 6 7 8 9 9 7 8 9 9 7 8 9 9 9 7 8 9 9 9 9 9	Std 6" ¬ A	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field c	DN AND CL lassification adjus esting data and/or y field geologist/o	ASSIFICAT ted based on re-examination engineer)	ION		LEVELS, CTER OF G AND ATORY
SS V 10-15-1	1 2	215.8 215.3		y c	RAVEL wi	th sand (G	P)- Gray (10	VR 6/1) =	Top of F	ill at a depth
1 SS 2 SS 3 8-11-1	1 13	212.5_	5-		ense, fine to fine ganics  AND, clayey edium dense	(SC) - Rec	P)- Gray (10 3), damp, monined SAND 1 (10R 4/8), red C)- Red (10R e grained	noist,	of 0.0 fee Top of B	et -
SS 4 10-11-1		208.6_ 207.8_	]; [2] [3]	KA S	AA		é grained  /8), moist, m			
SS 5-8-8			10-	S <sub>M</sub>	AND, with coist, medium	lay (SP-SC n dense, fin	T- Red (10R e grained	4/8),		
SS 6 6-8-10					AA			, .		
SS 7 5-6-6	13	198.8	15-	fa	AA except fr int subhorize	ne to medic ontal structi	ım grained, o are	contains		
SS 8 5-8-6	13	196.6_	20	S. m m	AND, clayey edium dense icaceous, co	(SC) - Rec	l (10R 5/6), redium graine subhorizont	noist, d, slightly al		
SS 9 6-10-10	0 12	193.8_ 191.6_ 188.8_	25	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	amed, conta	ıns tamı su	llow (5YR 6/ um dense, fin bhorizontal s wnish yellov e, fine to me bhorizontal s YR 7/8), moi trained	ii ucture /		
UD D	18		30-	// gr	AND, clayey 8), moist, mo ained ocket Penetro		lowish brown e, fine to me TSF	n (10YR dium	Direct Pu	ush
	24		35	S. Po	AA except fi ocket Penetro	ne grained ometer: 1.2	5 TSF		Direct Pu	ush
	24	176.2_ 173.8_	40-		ained ocket Penetro AND (SP) - S	ometer: 2.2.	5/6), fine to n 5 TSF vn (7.5YR 5/e to medium	8).	Direct Pu	ush
SS N 6-5-5	17	168.8	45-				w (2.5Y 7/6) ine grained			
SS	18		7 -/ -/		AND, clayey	(SC)- Lig	ht yellowish n dense, fine	brown grained		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vo.	gtle Ur F	nits 3 & 4 Co	OL Projec	t		HOLE NO.	3026



GE	Ξ	OTECHNICAL LO	<u> </u>	oje( ogtl		3 & 4 C	OL Project	JOB NO. 6141-06-0286	SHEET NO		HOLE NO. B-3026
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" OO 3rd 6" 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	( * = field c	DN AND CLASSIFICAT lassification adjusted based on testing data and/or re-examination y field geologist/engineer)	TION	WATE CHAR DRILL	S ON: ER LEVELS, PACTER OF ING AND RATORY ING
11		20 40 00 00			163.8_		contains thin (	CLAY lenses, -HCL			
SS 12	X	<b>A</b>	1-2-4	13	1500	55—	SAND, silty (1 moist, loose, n	SM) - Olive yellow (2.5 nedium to coarse graine	Y 6/6), ed, -HCL	Loss of a dept	of circulation at h of 52.0 feet
SS 13	X	<b>A</b>	10-17-11	14	158.8_ 153.8_	60-	SAND, with s (10YR 6/8) to medium dense contains trace	ilt (SP-SM)- Brownish yellow (10YR 7/6), mc, medium to coarse gra black manganese staini	yellow pist to wet, ined, ng, -HCL	Regain	ned circulation epth of 60.0 feet
SS 14	X	<b>^</b>	3-1-2	18	133.8_	65—	SAND, silty (to moist to wet, vograined, -HCL	SM)- Pale yellow (5Y 8 yery loose, fine to medi	3/3), um	-	
SS 15	X	<b>A</b>	15-16-14	18		70-	SAA except w to dense, coars fragments and	white (5Y 8/1), wet, med se grained, contains she cementation, +HCL	lium dense Il		
SS 16	X	<b>A</b>	8-11-16	18		75—	SAA except podense	ale yellow (5Y 8/2), me	edium		
SS 17	X	<b>A</b>	27-34-19	18	137.3_	80-	SAND, silty (s	SM)- Pale yellow (5Y 8 ne to medium grained, +	8/2), wet, -HCL	Top of Limes of 78	f Utley tone at a depth 5 feet
SS 18	_		50/1.5"	1	130.3_	85-	SAA except co	oarse to very coarse gra	ined 	Tomas	f Dlya Dlyff
SS 19	X	<b>A</b>	10-21-33	18		90-	SILT (ML) - 1 4/10Y), damp, plasticity, con shell fragment	Dark greenish gray (GL hard, nonplastic to low tains very fine and coar s, +HCL	EY1 / se grained	10p 0 Marl 2 85.5 f	f Blue Bluff it a depth of eet
SS 20	X	,	38-50/4"	10		95-	SAA except co	ontains less shell fragm	ents		
SS 21	×	,	50/5.5"	5.5		100-	SAA except co	ontains more shell fragr	nents and	Water	level depth at $\frac{1}{2}$ /8/07 =
SS 22	X	<b>A</b>	12-17-20	18		105-	SAA except no	o cementation		Groun Water	d surface level depth at ning of 2/9/07 =
		: : : :			SITE	Vogt	le Units 3 & 4 Co Final Log			HOLE N	3-3026



GE	EC	TECHNICAL LO	_	OJE(		3 & 4	C	DL Project   JOB NO.   SHEET NO.   3 OI	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" C 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  ( * = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 23	X	<b>A</b>	12-22-32	18		110-		SAA except greenish gray (GLEY1 5/10Y)	
SS 24	X	<b>A</b>	23-20-24	18		115-	- -	SAA except contains shell fragments	
SS 25	X	<b>A</b>	28-41-40	18		120-	-	SAA except contains cementation	
SS 26	X		10-28-50/2"	14		125-		SAA except less shell fragments and cementation	Water level depth at end of 2/9/07 = Ground surface
SS 27	X	4	9-30-50/3"	15		130-	-	SAA except contains thin cemented zones	Water level depth at beginning of 2/12/07 = 56.0 feet
SS 28	×		50/5.5"	4		135—	-	SAA except greenish gray (GLEY1 6/10Y), nonplastic, partially cemented	Water level depth at end of 2/12/07 = 3.0
SS 29	X	•	14-34-50/1"	13		140-	- -	SAA except nonplastic to low plasticity	feet Water level depth at beginning of 2/13/07 = 57.0 feet
SS 30	X	<b>A</b>	18-21-24	18		145-	-	SAA	
SS 31	×		13-50/2"	8	66.6_	- - -		SAA Boring terminated at 149.17 feet	
	1	;;;;;;	I		SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3026</b>



	PROJEC		3 & 4 CO	L Project 614	NO. 11-06-0286	SHEET NO.	
LOGGED BY		DINATES		<u> </u>	BEGUN		COMPLETED
DRILLER D. Brooks	DRILL	MAKE AND		8.7 E 621423.3 HOLE DIAMETER	1/30/200 HAMMER SI	07 ERIAL NUMB	$oxedsymbol{ }2/6/2007$ ER $oxedsymbol{ }$ TOTAL DEPTH
Geisecke-Gregg	<u></u>	C	CME-55	4 Inche	s	311025	150.0
GROUND EL. DEPTH/EL. GROUND WATER $\ 218.8 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	ITE:		•	Vogtle Electric G	enerating Pl	ant - Wa	vnesboro, GA
AND NO NOW PARTY LINE STATE OF THE STATE OF	3rd 6" ㅋ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION ANI  (* = field classification laboratory testing data of sample by field geo		TION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 20 40 60 80 7-8-7	9	218.8		SAND, with silt (SP damp, medium dense	- <b>SM</b> )- Red (2.5Y	TR 4/8),	Top of Barnwell
1 SS A 6-5-13	3 18		7 111	non plastic SAA except red (2.5)		grained,	Group at a depth of 0.0 feet
SS 2 SS 3 10-11-1	13 14		5—	SAA except light red	· · · · · · · · · · · · · · · · · · ·		
SS 4-11-1	3 11		7	SAA except red (2.5°	YR 5/8)		
SS 5 3-4-5	8		10-	SAA except red (10R grained	2 4/8), wet, loose	, medium	
SS 6 4-4-5	9	205.8		SAA			
SS 7 4-6-7	0	203.6_	15—	NO RECOVERY			
SS 8 3-5-7	12	201.8_	20-	SAND, with silt (SP wet, medium dense, in non plastic	<b>-SM)</b> - Red (10R fine to medium g	5/8), rained,	
SS 9 6-11-1	4 10	191.8_	25—	SAA except reddish grained	yellow (7.5YR 6.	/8), fine	Water level depth at end of 1/30/2007 = Ground surface
SS 10 A 3-4-8	16	186.8_	30-	CLAY, with sand (0 (10YR 6/6), damp, st high plasticity, +HCI	CH)- Brownish y iff, fine grained	rellow SAND,	Water level depth at beginning of 1/31/2007 = 4.25 feet
SS 11 2-3-5	18	100.6_	35-	CLAY, sandy (CL)- 6/8), damp, medium plasticity, -HCL	· Brownish yellostiff, fine grained	w (10YR I, low	
SS N 2-4-6	18	1760	40-	SAA except stiff, fine	e to medium grai	ned	
SS A 6-6-8	19	176.8_	45-	SAND, with clay (SI 7/6), damp, medium low plasticity, -HCL	P-SC)- Yellow (dense, medium g	10YR grained,	
SS 5-6-8	18			SAA except medium	to coarse graine	d	
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE	, ,	SITE	Vogtle 287 of 724	Units 3 & 4 COL Pro Final Log	oject		HOLE NO. B-3027



GE	OTECHNICAL LO	<u> </u>	OJE(		3 & 4	C	JOB NO.   SHEET NO	
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 60 80			166.0				
SS 15	<b>A</b>	4-7-13	15	166.8_	55—		SAND, with silt (SP-SM)- Very pale brown (10YR 8/2), damp, medium dense, medium to coarse grained, nonplastic, -HCL	
SS 16	<b>A</b>	3-2-10	17	157.0	60-		SAA except very pale brown (10YR 8/3), wet, coarse grained	
SS 17	<b>A</b>	2-11-11	20	156.8_ 151.8	65		SAND, with clav and gravel (SP-SC). Very pale brown (10YR 8/4), damp, medium dense, medium grained, low plasticity, GRAVEL consists of shell hash, +HCL	
SS 18	<b>A</b>	10-16-13	18	146.8	70-		*CLAY, silty (CL-ML)- Very pale brown (10YR 8/2), damp, very stiff, contains trace fine grained sand and shell hash, low plasticity, +HCL	
SS 19	<b>A</b>	9-10-11	21	141.8	75		*SAND, clayey (SC) - Very pale brown (10YR 8/2), damp, medium dense, medium to coarse grained, contains shell hash, low plasticity, +HCL	
SS 20 2	<b>A</b>	10-26-32	11	136.8	80-		SAND, with silt (SP-SM)- Very pale brown (10YR 8/2), wet, very dense, coarse grained, nonplastic, +HCL	
SS 21	-	50/1"	0	132.8_	85-		NO RECOVERY	Top of Utley Limestone at a depth of 82.0 feet.
SS 5 22 4	<b>A</b>	6-6-11	22	126.8	90-		CLAY, silty (CL-ML)- Light greenish grey (GLEY1 8/10Y), damp, very stiff, low plasticity, +HCL	Top of Blue Bluff Marl at a depth of 86.0 feet.
SS 23	<b>A</b>	24-22-31	20		95 —		SILT (ML) - Greenish grey (GLEY1 5/5GY), damp, hard, nonplastic, +HCL	Water level depth at end of 1/31/2007 =
SS 5	<b>A</b>	26-24-34	21		100-		SAA	Water level depth at beginning of 2/5/2007 = 58.5 feet
SS 5 25	<b>A</b>	31-30-33	23		105—		SAA except greenish grey (GLEY1 5/10Y)	
		1		SITE	Vo	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3027</b>



GE	EC	TECHNICAL LO	ightharpoonup	OJE(		3 & 4	l C	DL Project   JOB NO.   SHEET NO   3 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" _ S 3rd 6" _ =	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>A</b>	13-15-19	22		110-	-	SAA	
SS 27	X	<b>A</b>	11-12-16	23		- - 115—	- - -	SAA	
SS 28	X		17-32-50/4"	18	060	120-	- - -	SAA	Water level depth at end of 2/5/2007 = Ground Surface
SS 29	X	Å	25-29-49	23	96.8_	125-		CLAY, silty (CL-ML)- Greenish grey (GLEY1 5/10Y), damp, hard, low plasticity, +HCL	Ground Surface Water level depth at beginning of 2/6/2007 = 61.25 feet
SS 30	×		50/3"	4	86.8_	130-		SAA except light greenish grey (GLEY1 7/10Y)	
SS 31	×		50/2"	0	81.8_	135-	-	NO RECOVERY	
SS 32	X	<b>A</b>	17-18-33	20	61.6_	140-		SAA except greenish grey (GLEY1 5/5GY), damp, hard, low plasticity, +HCL	
SS 33	X	<b>A</b>	19-19-23	21		145—		SAA	
SS 34	X	<b>A</b>	21-23-21	21	68.8_	150-		SAA Boring terminated at 150 feet	
		· · · · · · · · · · · · · · · · · · ·	ı	1	SITE	V 289 of		Final Log	HOLE NO. <b>B-3027</b>



GE	ΞC	OTECHNICAL LOG	<u> </u>	OJEC		204	~	OI Davidant	JOB NO.	0206	SHEET NO		HOLE NO.
LOGG			•		DINATES	3 & 4	·CC	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPI	B-3028 LETED
		D. Brooks				N 114	186	67.3 E 6214	108.8	2/7/200	7	2/12/	
DRILL			D	RILL	MAKE AND			HOLE DIAM		HAMMER SE		ER	TOTAL DEPTH
GROU		Giesecke-Gregg Drilling EL. DEPTH/EL. GROUND WAT	ER SITI	E.	C	CME-	55	4 ]	Inches		311025		150.0
	<b>20</b> .	$\nabla$ /						Vogtle Elect	tric Gene	erating Pl	ant - Wa	vnesbo	oro, GA
												<u> </u>	
SAMP. TYPE AND NO.		▲ N-VALUE (SPT)	N-COUNT	RECOVERY (in)	Z_	ᇤ	ပ္လ					NOTES	
≥S	SAMPLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ER)	ATI(	Z T	불	DESCRIPTION	ON AND CI	ASSIFICAT	ION		R LEVELS, ACTER OF
AMP AND	SAI	+ ATT. LIMITS %	3 2	00	ELEVATION IN FEET	DEPTH IN	GRAPHICS	( * = field o	classification adju- testing data and/or by field geologist/o	sted based on		DRILLI	NG AND RATORY
Ŝ		☐ FINES %		R	Ш	□		of sample t	by field geologist/	engineer)		TESTIN	
SS	$\forall$	20 40 60 80	1-4-3	12	220.1	_	ΞV	SAND with c	·lav (SP-SC	T)- Red (2.5)	/R 4/8)	Top of	Barnwell
1	$\emptyset$	<b>A</b>	4-5-9	11		-		SAND, with o damp, loose, f SAA except m	ine grained redium den	, low plastici	ty	Group a	at a depth of
1 SS 2 SS 3		<b>A</b>	267	, ,		-							
	X		3-6-7	14	214.6	5-		SAA					
SS	$\forall$	<b>A</b>	7-10-11	13	214.0_	-		CLAY, sandy	(CL)- Red	1 (2.5YR 4/6	 ), damp,		
4	A					-		CLAY, sandy very stiff, med SAND	liùm plastic	city, fine grai	ned		
SS 5	X		6-8-9	15	• • • •	10		SAA					
SS		<b>A</b>	8-10-12	14	209.6_	10-		SAND with a	lov (SD SC	 Th_ Red (10R	5/8)		
6	X				207.1_	-		SAND, with o damp, mediun plasticity	n dense, fin	e grained, lo	w .		
SS	M	<b>A</b>	5-7-10	15		-			(CL)- Yel	lowish red (	YR		
7	H					15-		CLAY, sandy 5/8), damp, ve medium grain	ed SAND	v piasticity, i	ine to		
					203.1_	_							
SS	$\mathbb{H}$	<b>A</b>	6-5-8	13		-		SAND, with s	silt (SP-SM	)- Red (10R	4/8).		
SS 8	A					20-		SAND, with s wet, medium on nonplastic	dense, med	ium grained,	//		
						-		•					
cc		<b>A</b>	5-7-9	14		-		SAA ayaant m	attlad rad i	(10D 4/9) one	l ninle		
SS 9	Х					25-		SAA except m (10R 8/3)	ioillea rea (	10K 4/8) and	і ріпк		
						-							
		<b>A</b>				-							
SS 10	M		6-7-10	15		30-		SAA except y	ellowish re	d (5YR 5/8)			
						-							
						_							
SS 11	X	<b>A</b>	5-10-13	12				SAA except re	eddish yello	ow (7.5YR 6/	(8), -HCL		
11						35-							
						-							
SS	$\forall$	<b>A</b>	7-10-8	10		_		SAA					
12	H					40-							
					178.1_	-							
SS 13	$\forall$	<b>A</b>	1-3-6	22		-		CLAY, sandy	( <b>CL</b> )- Bro	wnish yellov	v (10YR		
13	A					45-		6/8), damp, sti SAND, -HCL	iff, low plas	sticity, fine g	rained		
					173.1_	_							
SS	$\mathbb{H}$	<b>A</b>	3-6-5	15		-		SAND, with s	ilty alay (S	P-SCL Brow	vnish		
	M APE	ED BY: A. TAYLOR			SITE	17	Oct!	yellow (10YR e Units 3 & 4 C	<u>. 6/8), damp</u>	<u>, medium de</u>	nse, fine	HOLE NO	O.
		ED BY: P. DEPREE						Final Log		•			-3028
						290 of	724						



GE	ΞC	TECHNICA	L LOG		OJEC ogtl		3 & 4	C		T NO.	HOLE NO.  B-3028
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTEI  + ATT. LIMITS %  □ FINES %  20 40 60		2nd 6" S 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	W C D	OTES ON: /ATER LEVELS, HARACTER OF RILLING AND ABORATORY ESTING
14							-		to medium grained, nonplastic, -HCL		
SS 15	X	<b>A</b>		5-6-8	16		55—		SAA except medium to coarse grained		
SS 16	X	<b>A</b>		6-10-11	15	158.1	60-		SAA except yellow (10YR 7/6), low plastici	ity	
SS 17	X	<b>A</b>		6-10-17	14	153.1	65—		SAND, with silt (SP-SM)- Brownish yellow (10YR 6/8), wet, medium dense, medium to coarse grained, nonplastic, -HCL	v	
SS 18	X	<b>A</b>		7-9-9	18	133.1_	70—		*SHELL HASH, silty, clayey with sand (GC-GM) - Very pale brown (10YR 8/2), damp, medium dense, fine to medium graine SAND, +HCL	ed	
SS 19	X	<b>A</b>		9-13-14	16	1.42.1	- - 75—		SAA		
SS 20	X	<b>A</b>		8-11-14	17	143.1_	80-	8	SAND, with silt (SP-SM)- Pale yellow (5Y 8/2), wet, medium dense, medium to coarse grained, nonplastic, -HCL	W er G	/ater level depth at and of 2/7/07 = bround surface
SS 21	X	<b>A</b>		5-8-12	15	122.1	85—		SAA		/ater level depth at eginning of 2/8/07 = 1.33 feet
SS 22			<b></b>	50/1"	0	133.1_	90-		NO RECOVERY	To L	op of Utley imestone at a depth f 87.0 feet
SS 23	X	<b>A</b>		3-5-8	20	128.1_	- - - 95—		CLAY, silty (CL-ML)- Very pale brown (10YR 7/4), damp, stiff, low plasticity, +HC	EL To	op of Blue Bluff darl at a depth of 2.0 feet. oss of circulation.
SS 24	X		<b>A</b>	21-29-41	18	123.1_	100-		SILT (ML) - Greenish gray (GLEY1 5/5GY damp, hard, nonplastic, +HCL	7), In ca	nstalled 4" steel asing to a depth of 00.0 feet 'Ater level depth at and of 2/8/07 =
SS 25	X	<b>A</b>		8-12-37	23		105—		SAA	W be	and of 2/8/07 = ground surface //ater level depth at eginning of 2/9/07 = 2.2 feet
			: I			SITE	V 291 of		e Units 3 & 4 COL Project Final Log	НС	B-3028



GE	ΞC	TECHNICAL LO	~	OJE( ogtl		3 & 4	l C	DL Project   JOB NO.   SHEET NO.   3 0	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>A</b>	11-14-17	24		110-	-	SAA except greenish gray (GLEY1 5/10Y)	
SS 27	X	<b>A</b>	9-12-16	23		115—	-	SAA except very stiff	
SS 28	X	<b>A</b>	9-10-15	24	00.1	120-	-	SAA	
SS 29	X	<b>A</b>	19-24-26	23	98.1_	125—		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/10Y), damp, hard, low plasticity, +HCL	
SS 30	X	•	19-48-45	24		130-		SAA	Water level depth at end of 2/9/07 = Ground surface
SS 31	X	<b>A</b>	12-29-22	24		135—		SAA	Water level depth at beginning of 2/12/07 = 3 feet
SS 32	$\boxtimes$		26-50/3"	12		- - 140-		SAA	
SS 33	X	,	36-37-50/1"	13	72.1	- - 145—		SAA	
SS 34	X	<b>A</b>	10-11-20	23	73.1_ 70.1_	150-		SILT (ML) - Greenish gray (GLEY1 5/10Y), damp, hard, nonplastic, +HCL Boring terminated at 150 feet	-
					SITE	v	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3028</b>



GE	ΞO	TECHNICAL LO	<u>-</u>	OJEC		3 8. 14	COL Projec	JOB NO.	06-0286	SHEET NO 1 OF		HOLE NO. <b>B-3029</b>
LOGG			V 1		DINATES	3 & 4 (	OL Projec	ι 0141-	BEGUN	I OF	COMPL	
		L. Davis		_			881.5 E 62		1/29/200		1/30/	
DRILL	ER	Molvin MACTEC	D	RILL	MAKE AND			IAMETER		ERIAL NUMB	ER	TOTAL DEPTH
GROU	ND E	Melvin-MACTEC EL. DEPTH/EL. GROUND WAT	ER SITI	E:	C	ME-55	)	3 Inches		219505		149.9
2	20.	1 ½ /					Vogtle El	ectric Gen	erating Pl	ant - Wa	ynesbo	ro, GA
		A NIVALUE (ODT)										
YPE O.	щ	▲ N-VALUE (SPT)	N-COUNT	Y.	NO L	FT	3				NOTES	ON: R LEVELS,
<u>~</u>	SAMPLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	VER	VATI	H		TION AND C		ION	CHARA	CTER OF
SAMP. TYPE AND NO.	S	+ ATT. LIMITS %		RECOVERY (in)	ELEVATION IN FEET	DEPTH IN	labora of san	field classification adjustery testing data and/on the place by field geologist	r re-examination /engineer )		LABOR	NG AND ATORY
		☐ FINES % 20 40 60 80		<u> </u>	220.1						TESTIN	IG
SS 1	M		13-18-11	12	220.1	-11	SAND, silt	ty (SM)- Red ense, low plast	(10YR 5/6),	damp,	Top of I	Barnwell
SS			6-6-14	14	216.9		SAA	, 10 ii piaoi	1010), 1102		0.0 feet	t a depth of
SS 2 SS 3	X	<b>^</b>	12-15-15	24	215.6_	5—	CLAY, sil	ty, sandy, wit 5/6), moist, ve	h gravel (CI ry stiff, low p	L-ML)- plasticity,		
SS 4	X	<b>A</b>	9-13-13	15		- - - -	SAND, silt damp, dens SAA excep	ty (SM) - Dark se, fine graine ot red (10R 4/6	red (2.5YR d, nonplastic, b), medium d	3/2), ,-HCL ense		
SS 5	M	<b>A</b>	5-7-8	10		10	SAA					
SS 6		<b>A</b>	5-8-10	12		10-	SAA excep	ot weak red (1	0R 4/4)			
SS		<b>A</b>	6-6-7	14			SAA excer	ot red (10R 5/8	3), moist			
7	H					15—		`	,,			
SS 8	X		5-6-8	15		20-	SAA excep	ot light red (10	OYR 6/8)			
						-1:1 -1:1						
SS	$\mathbb{H}$	<b>A</b>	5-7-7	14			SAA excer	ot light red (2.	5VR 7/8) no	nnlastic to		
9	Ä					25	low plastic	ity	3 T K 7/0), 110	iipiastic to		
SS	$\forall$	<b>A</b>	8-8-12	9		7.1	SAA excep	ot light red (2.	5YR 6/8)			
10	Н					30-						
SS 11	X	<b>A</b>	15-21-27	11		25	SAA excep	ot reddish yell	ow (7.5YR 6	/6), dense		
11	П					35-						
SS 12	M		20-28-32	11		40-	SAA excep	ot damp, very ned	dense, mediu	ım to		
12					178.1	407						
					1/0.1_							
SS 13		•	3-5-5	28		45-	CLAY, silt yellow (7.5	<b>ty, sandy (CL</b> SYR 6/6), moi d SAND, -HC	ML)- Redd st, stiff, low p	ish plasticity,		
							tine graine	a SAND, -HC	L	-		
		<b>A</b>	£0.10				Q		<i>(</i> = ===	16)		
SS	M		5-8-10	24	SITE		stiff	ot reddish yell			HOLE M	
		D BY: A. TAYLOR D BY: P. DEPREE			SIIE	Vo	gtle Units 3 & 4 Final L		et		HOLE NO	-3029
<u> </u>					ı	293 of 7		8				-



GE	EC	TECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	C	JOB NO.   S DL Project   6141-06-0286	SHEET NO <b>2</b> OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" ¬	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATIO  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS		<b>A</b>	16-16-18	15	168.1_	- - -		SAND, with silt (SP-SM)- Reddish vell		Water level depth at beginning of 1/30/07
15					163.1_	55-		SAND, with silt (SP-SM)- Reddish yell (7.5YR 7/8), moist, dense, medium grain nonplastic, -HCL	ned,	= 27.0 feet
SS 16	X	<b>A</b>	5-9-10	17	158.1_	60-		SAND, silty, clayey (SC-SM)- Reddish yellow (7.5YR 7/8), moist, medium dens plasticity, -HCL	se, low	
SS 17	X	<b>A</b>	8-7-5	21	153.1	65-		SAND, silty (SM)- Yellow (10YR 7/8), moist, medium dense, medium grained, nonplastic, -HCL	,	
SPT 18	X	<b>A</b>	7-8-10		133.1_	70-		CLAY, silty, sandy (CL-ML)- Pale yel (5Y 7/4), moist, very stiff, low plasticity	llow 7, -HCL	
SS 19	X	<b>A</b>	6-10-16	18	148.1_	- - 75—		SAND, with silt (SP-SM)- Pale yellow 8/3), damp, medium dense, nonplastic, -	 (2.5Y HCL	
SS 20	X	<b>A</b>	8-8-12	27	143.1_	80-		CLAY, silty, sandy (CL-ML)- Yellow 6/6), moist, very stiff, low plasticity, -Ho	 (2.5Y CL	
SS 21	×		50/6"	4	137.1_	- - - 85—		*SHELL HASH, silty, clayey with san (GC-GM) - Yellow (10YR 8/6), moist, v dense, nonplastic to low plasticity, +HC	 <b>nd</b> very	Top of Utley Limestone at a depth of 83.0 feet
SS 22	X	<b>A</b>	10-12-17	27	133.1_	- - -		CLAY, silty, sandy (CL-ML)- Yellow 7/8), moist, very stiff, medium plasticity		
SS	X	<b>A</b>	20-23-26	27	128.1_	90-		CLAY (CL) - Greenish gray (GLEY2 5/damp, hard, nonplastic to low plasticity,		Top of Blue Bluff Marl at a depth of 92.0 feet
23			50/2"	4		95- - - -			, +HCL	
SS 24			30,2	•	118.1_	100-		SAA 		
SS 25	X	<b>A</b>	17-23-41	24		105-		*CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/10Y), damp, hard, nonplastic contains shell fragments, +HCL		
					SITE	V <del>294 of</del>	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-3029</b>



GE	EC	TECHNICAL LO	_	OJE(		3 & 4	1 C(	JOB NO. SHEET NO. 6141-06-0286 3 OF	HOLE NO.  3 B-3029
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - 5 2nd 6" 0 3rd 6" - 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field reachost/projucer; in	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	×	,	50/2"	1.5		110-		SAA except greenish gray (GLEY1 6/5GY)	
SS 27	$\boxtimes$		23-50/5"	20		115-		SAA except greenish gray (GLEY1 5/10Y)	
SS 28	$\boxtimes$		49-50/3"	11	00.1	120-		SAA except low plasticity	
SS 29	X		42-50/5"	18	98.1_ 93.1_	125-		*CLAY (CL) - Greenish gray (GLEY1 6/10Y), moist, hard, medium plasticity, +HCL	
SS 30	X		50/5"	3	88.1_	130-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 6/5GY), damp, hard, nonplastic, contains cemented fragments, +HCL	
SS 31	X		13-30-50/5"	27	83.1_	135-		*CLAY, silty, sandy with cemented fragments (CL-ML) - Greenish gray (GLEY1 6/10Y), moist, hard, nonplastic to low plasticity, +HCL	
SS 32	×		50/5"	4	63.1_	140-		CLAY, silty with sand (CL-ML)- Light greenish gray, damp, hard, nonplastic to low plasticity, +HCL	
SS 33	X	<b>A</b>	17-25-27	28		145-		SAA	
SS 34	X		<b>4</b> 7-35-50/5"	26	70.2_	- - -		SAA Boring terminated at 149.9 feet	
					SITE	V	ogtl/	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3029</b>



GE	OT	ECHNICAL LO	<u> </u>	OJEC		201	CO	N. Duning	JOB NO.	V 0206	SHEET NO		HOLE NO.
LOGGE			, ,		DINATES	3 & 4	CU	L Project	0141-0	6-0286 BEGUN	<b>1</b> OF	COMPL	B-3030 ETED
		C. Bruce				N 114		9.9 E 6217	99.7	1/19/200	7	1/29/2	2007
DRILLE			D	RILL	MAKE AND			HOLE DIAM		HAMMER SE		ER	TOTAL DEPTH
GROUI		esecke-Gregg Drilling DEPTH/EL. GROUND WATI	ER SITE		C	ME-5	55	41	nches		311025		150.0
	22.0	∑ / ▼ /					•	Vogtle Elect	ric Gene	rating Pla	ant - Wa	ynesbo	ro, GA
SAMP. TYPE AND NO.		N-VALUE (SPT)	N-COUNT	RECOVERY (in)	NO F	Ħ	ည					NOTES	
J.O	SAMPLE +	WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ÆR	ATI TE:	Z I	품	DESCRIPTIO	N AND CL	ASSIFICAT	ION		R LEVELS, CTER OF
AMF	- SAI	- ATT. LIMITS %	- 0 0	8	ELEVATION IN FEET	DEPTH IN	GRAPHICS	( * = field c	lassification adjust esting data and/or y field geologist/e	re-examination		DRILLIN LABOR	NG AND ATORY
S		FINES %		묎				or sample of	y field geologist/c	ngmeer)		TESTIN	
SS	H	20 40 60 80	7-8-8	8	222.0			SAND, silty (S	SM)- Red (	2.5YR 5/8).	drv.	Top of I	Fill at a depth
	₩ 4	<b>\</b>	5-6-6	15	220.5_			medium dense	, fine grain	ed	-	of 0.0 fe	Fill at a depth eet
1 SS 2 SS 3			2.2.2	7	218.7_	-		GRAVEL, wi to strong brow dense			11		
3	$M_{-}$		3-3-2	7	216.5	5—	$\boxtimes$	SAND, clayey loose	(SC)-Rec	T(2.5YR 5/8)	), moist,		
SS 4		<b>A</b>	12-10-10	13	210.5_	-	Ĭ	*SAND, with dry, medium d	silt (SP-SN ense, fine g	<b>1)</b> - Red (2.5) grained	YR 5/8),		Barnwell t a depth of
SS 5	X	<b>A</b>	10-9-8	16		10		SAA except m	oist				
SS 6		<b>\</b>	3-5-7	8		10-		SAA except fir	ne to medit	ım grained			
SS		<b>A</b>	4-6-7	9		- - - :		SAA except re (5YR 5/8), we	d (2.5YR 5	5/8) to strong	brown		
7						15—		(31 K 3/8), we	ι				
22		<b>A</b>	4-6-10	9				SAA evcent re	d (10 <b>VR</b> 4	/8) to ninkisk	n orav		
SS 8	Ä					20		SAA except re (7.5YR 7/2), fi	ine to coars	e grained	i giuy		
						-							
SS 9		<b>^</b>	6-7-8	12		25		SAA except st medium graine	rong brown ed	n (7.5YR 5/8	), fine to		
						-							
SS 10		<b>A</b>	7-9-13	9		-		SAA except by	rownish yel	low (10YR 6	5/8),		
UD 1				13.5		30		SAA Pocket Penetro TSF	_			Direct P	ush
SS	M	<b>A</b>	18-19-21	8				SAA except de	ense, fine to	medium gra	ained		
11 UD 2		O		12		35-		SAA Pocket Penetro	ometer: 0.7	5 TSF, 0.75	ΓSF, 0.5	Direct P	ush
SS		<b>A</b>	7-14-21	10		-		TSF SAA except w	et				
12 UD	$\wedge$	0		13	182.0_	40	#	SAND, clayey 7/8), wet, fine		lowish brow	n (10YR	Direct P	ush
3						-		7/8), wet, fine Pocket Penetro TSF	to médium ometer: 0.5	grained TSF, 0.5 TS	F, 0.5		
SS 13	<b>A</b>		3-3-6	24		45—		SAA except lo 2" CLAY sean	ose, fine gr	rained, conta	ins 1 to		
						7.7 ] 							
SS	X	<b>A</b>	7-11-8	20		-		SAA except ye	ellowish bro	own (10YR :	5/6),		
PREPA	K N ARED B	BY: A. TAYLOR			SITE	V	zzi ogtle	medium dense Units 3 & 4 Co	OL Projec	aise giained t		HOLE NO	
REVIE	WED B	Y: P. DEPREE				296 of	<del>72</del> 4	Final Log	5			<u>B</u> .	-3030
						_55 01							



GE	OTECHNICAL LOG	~	OJEC		2 0- 1	C	OI Ducient	JOB NO. <b>6141-06-0286</b>	SHEET NO	
		<u> </u>	ogu	e Units	3 & 4		OL Project	0141-00-0280	<b>2</b> OF	3 B-3030
, /S	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" - z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	SOIHAVAS	( * = field c	DN AND CLASSIFICAT lassification adjusted based on esting data and/or re-examination y field geologist/engineer)	ION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14				170.0	-					
SS 5	<b>A</b>	10-12-17	11	165.0	- - 55—		SAND (SP) - Wet, medium d	Yellowish brown (10YR dense, fine to coarse gra	2 5/6), ined	
SS 16	<b>A</b>	4-4-7	22		60-		SAND, clayey 5/6), moist, me grained	(SC)- Yellowish brownedium dense, fine to me	n (10YR dium	
SS 5		7-8-13	15	160.0_	65—		SAND, with si (10YR 5/8), m medium grains	ilt (SP-SM)- Yellowish oist, medium dense, fin ed	brown e to	
SS 18	<b>A</b>	4-4-12	24	155.0_	70—		SAND, silty, c (10YR 7/2), m -HCL	clayey (SC-SM)- Light loist, medium dense, fin	gray e grained,	
SS 19	<b>A</b>	10-12-14	19	150.0_ 145.0	75—	<b>(</b>	SAND, silty (S (GLEY1 7/10) medium graine	SM)- Light greenish gra Y), wet, medium dense, ed, contains CLAY lens	ny fine to es, -HCL	Water level depth at end of 1/23/07 = 3.0
SS 20	z	50/3"	5	140.0	80-		SAND, with c greenish gray ( dense, contains	lay and gravel (SP-SC (GLEY1 8/5GY), wet, v s shell hash, +HCL	 - Light ery	Water level depth at beginning of 1/24/07 = 35.0 feet
SS 5	<b>A</b>	9-11-16	24	135.0	85—		SAND, clayey (GLEY1 8/5G contains severa	(SC)- Light greenish g Y), moist, medium dens al 1 to 2" CLAY seams	grey se,	
SS 22	× 4	50/5"	4	130.0	90-		*SHELL HAS - White (GLEY	SH, with clay and sand Y1 8/N), wet, very dens	I ( <b>GP-GC</b> ) e, +HCL	Top of Utley Limestone at a depth of 87.0 feet
SS 5	<b>A</b>	4-9-16	13	130.0_	- - 95—		SILT (ML) - I stiff, low plast	Pale olive (5Y 6/4), moi icity, +HCL	st, very	a depth of 91.0 feet
SS 24	<b>A</b>	19-19-19	26	123.0_	100-		SAA except ha SILT (ML) - I 4/10GY), mois	ard	EŢI — ৴ · HCL	Top of Blue Bluff Marl at a depth of 99.0 feet Water level depth at end of 1/24/07 = 92.0
SS 25	× .	50/5"	7		105—		SAA except da	amp		end of 1/24/07 = 92.0 feet  Water level depth at end of 1/25/07 = 15.0
	<u> </u>	l		SITE	V	ogtl	le Units 3 & 4 Co			HOLE NO.
					297 of		Final Log	5		B-3030



		TECHNICAL LOC	•	OJE(		2 & A	C	JOB NO.   SHI DL Project   6141-06-0286	IEET NO.	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)	1st 6" - 7 2nd 6" 00 3rd 6" - 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	I	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>A</b>	13-18-19	22		110-		SAA except contains trace shell fragments	s	feet Water level depth at beginning of 1/26/07 = 92.0 feet
SS 27	X	•	13-18-24	24		115—		SAA		
SS 28	X	<b>A</b>	11-16-45	24		120-		SAA		
SS 29	X	•	11-56-35	24		125—		SAA except greenish gray (GLEY1 5/10G moist	GY),	
SS 30	X		2-50/6"-50/3	3"23		130-		SAA		
SS 31	X		12-50/3"	8		135—		SAA except wet		
SS 32	*		50/2"	3		140—		SAA		
SS 33	×		50/3"	2.5		- - 145—		SAA		
SS 34	X	<b>A</b>	14-16-24	24	72.0_	150—		SAA except moist, contains trace shell fragments Boring terminated at 150 feet		
					SITE	V <del>298 of</del>		e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-3030</b>



	OTECHNICAL LO	$G_{V_0}$		e Units	3 & 4	COL	_ Project	JOB NO. <b>6141-</b>	06-0286	SHEET NO	3	HOLE NO. <b>B-3031</b>
DRILLER	L. Davis			MAKE AND		L	.7 E 6220			07 ERIAL NUMB 219505	1/26/2	
GROUND	DEL. DEPTH/EL. GROUND WAT	ER SITE	≣:		.IVII:		ogtle Elect				ynesbo	
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" <u>C</u> 3rd 6" <u>z</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	laboratory t of sample b	elassification adju esting data and/o y field geologist	asted based on or re-examination /engineer)		CHARA DRILLII	R LEVELS, CTER OF NG AND ATORY
AU 1					- - - - 5—		SAND, with s 4/3), damp, no	ilt (SP-SM onplastic	<b>I)-</b> Weak red	(10R	Top of Group a 0.0 feet	Barnwell t a depth of
SS X	<b>A</b>	4-7-6	13		- -		*SAA except dense, contain	weak red ( s trace GR	10R 5/3),med AVEL (poss	dium ible fill)		
$\frac{SS}{3}$	<b>A</b>	4-5-6	11		10-		SAA except w	reak red (1	OR 5/4)			
SS 4	<b>^</b>	4-6-6	12		-		SAA except w	reak red (1	0R 4/3)			
SS 5	<b>A</b>	7-8-8	13		15-		SAA except re	ed (10R 5/6	5)			
SS X	<b>A</b>	7-6-5	10		20-		SAA except w	reak red (1	0R 5/4)			
ss 7	<b>A</b>	4-6-9	11		25—		*SAA except	weak red (	10R 4/4)			
SS X	<b>A</b>	7-9-9	13	192.7_	30-	l 1111	SAA except li	•				
UD 1			24	189.2	30 — - -		*SAND (SP)- 10YR 7/6), da Pocket Penetro				Direct F	ush
UD 2	O□		11.5	107.2_	35-		*SAND, silty 6/6), damp, me Pocket Penetro	(SM) - Broedium densometer: 1.7	ownish yellov se 75 TSF	w (10YR	Direct F	Push
UD 3	0		11.5		40-		SAA Pocket Penetro	ometer: 1.2	2 TSF		Direct F	ush
SS 10	<b>A</b>	8-12-14	10		- 45 — -		SAA except b	rownish ye	ellow (10R 6/	(8), -HCL		
SS	A TAYLOR	10-9-10	11	SITE			SAA except de	-			HOLE NO	)
	ED BY: A. TAYLOR ED BY: P. DEPREE			GILE	V <del>299 of</del>		Jnits 3 & 4 Co Final Log		:t 			-3031



GE	OTECHNICAL LO		ojec ogtl		3 & 4 C	OL Project   JOB NO.   6141-06-028	6 SHEET NO 2 OF	
SAMP. TYPE AND NO. SAMPIF	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AND CLASSIFI  (* = field classification adjusted based on laboratory testing data and/or re-examinat of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
11				170.7_				
SS 12	<b>A</b>	7-8-9	14		55-	SAND, silty, clayey (SC-SM)- Y 7/8), moist, medium dense, nonpl plasticity, -HCL	ellow (10YR astic to low	
SS X	7	8-8-14	12		60	SAA except brownish yellow (10 plasticity	YR 6/6), low	
SS 14	<b>A</b>	5-6-4	21		65	SAA except yellowish brown (10 nonplastic to low plasticity	YR 5/6),	
SS 15	<b>A</b>	6-6-8	19	155.7_	70-	SAND, silty (SM)- Yellow (10Y moist, medium dense, nonplastic,	R 7/8), -HCL	
SS 16	7	12-11-15	15		75 —	SAA except yellow (10YR 7/6)		Water level depth at
SS 17	7 🛕	5-5-7	28	145.7_	80-	SAND, silty, clayey (SC-SM)- Y 7/6), moist, medium dense, low p -HCL	ellow (10YR lasticity,	Water level depth at end of 1/24/07 = Ground surface  Water level depth at beginning of 1/25/07 = 34.0 feet
SS 18	7	4-8-12	24	140.7_	85	SAND, with silt (SP-SM)- Very (10YR 8/3), moist, medium dense	pale brown , nonplastic,	
SS 19	<b>A</b>	4-5-8	21	135.7_	90-	SAND, silty (SM)- Very pale bro 8/3), moist, medium dense, nonpl	own (10YR astic, -HCL	
SS 20	<b>A</b>	8-22-18	15	127.7_	95 - 60	SAA except very pale brown (10°		Ton of Utlay
SS Z1	<b>A</b>	7-9-12	28	125.7_	100-	*SHELL HASH, silty with sand Yellow (10YR 8/6), moist, mediu dense, nonplastic, +HCL SILT (ML) - Pale yellow (10YR very stiff, nonplastic, +HCL		Top of Utley Limestone at a depth of 95.0 feet
SS 22	<b>A</b>	28-31-36	18		105—	SAA except pale yellow (2.5YR greenish gray (5/5GY), moist *SAA except greenish gray (5/5G) hard		Top of Blue Bluff Marl at a depth of 104.0 feet
	I : : : :	1		SITE	Vogt	le Units 3 & 4 COL Project Final Log		HOLE NO. B-3031



GE		TECHNICAL LO	~	OJEC ogtl		3 & 4	- C	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 OF		HOLE NO. <b>B-3031</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - 2 2nd 6" O 3rd 6" - 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTE WATE CHAR DRILL	S ON: R LEVELS, ACTER OF ING AND RATORY
SS 23	×		22-50/3"	13		110-	-	SAA except greenish gray (GLEY2 6/5GY)		
SS 24	_	•	50/1"	2	105.7_	115—	- - - -	SAA except greenish gray (GLEY1 5/5GY)		
SS 25	_	•	50/1"	1.5	100.7_	120-		*CLAY (CL)- Greenish gray (GLEY1 7/5GY), moist, hard, low plasticity, +HCL		
SS 26	X	<b>A</b>	14-17-50	24	100.7_	125-	-	SILT, with sand (ML)- Greenish gray (GLEY1 6/10Y), damp, hard, nonplastic, fine grained SAND, +HCL		
SS 27	×		50/5"	5	90.7_	130-	- - - -	SAA except contains compacted SILT		
SS 28	×		50/6"	10	90.7_	135-		CLAY, silty with sand (CL-ML)- Greenish gray (GLEY1 6/10Y), moist, hard, nonplastic, +HCL		
SS 29	X	<b>A</b>	18-22-28	28	80.7_	140-		SAA except low to medium plasticity		
SS 30	_		50/1"	1.5	75.7_	145-		*CLAY, silty, sandy (CL-ML)- Greenish gray (GLEY1 7/10Y), moist, hard, low plasticity, contains cemented fragments, +HCL		
SS 31	X	<b>^</b>	20-33-50	25	72.7_	150-	-	SILT, sandy (ML)- Greenish gray (GLEY1 6/10Y), moist, hard, low plasticity, +HCL Boring terminated at 150 feet		
					SITE	V	ogtl	e Units 3 & 4 COL Project	HOLE N	
						301 of	_	Final Log	E	<b>3-3031</b>



GE	ΞΟ	TECHNICAL LO	$\mathbf{C}$	ogtl		3 & 4	CC	L Project	JOB NO.	06-0286	SHEET NO		OLE NO. <b>B-3032</b>
LOGGI	ED BY				DINATES					BEGUN		COMPLE	TED
DRILLI	ER	C. Gandy	D	RILL	MAKE AND			8.2 E 6217 HOLE DIAM		1/11/200 HAMMER SE		1/1 <b>7/2</b> SER	007 TOTAL DEPTH
00011		Melvin-MACTEC	ED OIT		C	ME-7	5	3 I	nches		219505		149.5
GROU 2	20.1	$\nabla$ /	ER SIT	E:			,	Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesboi	o, GA
/8	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" 00 3rd 6" 4z	RECO	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	laboratory to of sample by	assification adjust esting data and/or field geologist/o	sted based on r re-examination engineer)		DRILLIN LABORA TESTING	LEVELS, CTER OF G AND TORY
SS 1 SS 2 SS 3 SS 4 SS 5 SS 6			4-4-6 7-7-8 5-7-8 5-6-9 5-7-7 5-6-8	21 16 10 9.5	212.1_ 208.3_ 207.1_	5—		SAND, with si damp, loose, fi nonplastic SAA except re SAA except da SAND, silty (Smedium dense nonplastic SAA SAND, with si 7/6), damp, me	ne to medi d (10R 5/8 d (10R 5/8 mp SM)- Red ( , fine to me	ium grained, ), medium d ), moist  (10R 5/6), da edium graine	ense  mmp, xd,	Top of B Group at 0.0 feet	arnwell a depth of
SS 7		<b>A</b>	5-8-9 5-5-7 5-7-7	9.5 15		20-		nonplastic SAND, silty (\$6/6), damp, me nonplastic SAA except ye SAA except br to medium gra	SM)- Brow Edium dens Ellow (10Y	wnish yellow te, fine grain R 7/6), mois	(TOYR ded,		
9 SS 10	X	<b>A</b>	7-8-9	16	193.1_ 188.1_	30-		SAND, clayey damp, medium plasticity				Water levend of 1/of casing	vel depth at 11/07 = Top
SS 11	X	<b>A</b>	5-7-10	10		35-		SAND, silty (S moist, medium to low plasticit	dense, fin	ow (10YR 7/ e grained, no	6), onplastic	Water lev beginning = 15.7 fe	vel depth at g of 1/12/07 et
SS 12		<b>A</b>	7-10-14	14		40-		SAA except m grained, nonpla	oist to wet	, fine to med ains minor lig	ium gnite		
SS 13		<b>A</b>	6-9-9	14		45		SAA except no					
SS		PV A TAVICE	5-9-7	15.5	SITE		Щ	SAA except m				HOLE NO.	
		BY: A. TAYLOR BY: P. DEPREE			JIL	Vo 302 of		Units 3 & 4 CO Final Log		τ			3032



GEC	TECHNICAL LOC	•	OJEC ogtl		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 OF	
SAMP. TYPE AND NO. SAMPLE		lst 6" -4- 2nd 6" O 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14				168.1_	-			
ss X	<b>A</b>	3-4-9	24	166.1_ 163.1	55—		CLAY (CH) - Yellow (10YR 7/6), damp, stiff, high plasticity SAND, clayey (SC) - Brownish yellow (10YR 6/6), moist to wet, medium dense, fine grained, contains shell hash and lignite, -HCL	
SS X	<b>A</b>	4-7-9	14		60-		SAND, silty (SM)- Yellow (10YR 7/6), moist, medium dense, fine grained, nonplastic, -HCL	
SS X	<b>A</b>	4-6-6	18.5	158.1_	- - 65—		SAND, with clay (SP-SC)- Yellow (10YR 7/8), moist, medium dense, medium grained, nonplastic to low plasticity, lignitic, -HCL	
SS X	<b>A</b>	4-6-11	16	153.1_	70—	. <i>Y</i> /	SAND, silty (SM)- Yellow (10YR 7/8), wet, medium dense, fine to medium grained, nonplastic, -HCL	_
SS X	<b>A</b>	4-8-11	17.5	143.1	- - 75—		SAA except fine grained, contains minor lignite	Water level depth at end of 1/12/07 = Top
SS Z	<b>A</b>	6-10-14	22	143.1_	80—		SAND, clayey (SC)- Light gray (10YR 7/2), moist, dense, fine grained, low plasticity, -HCL	of casing
SS Z1	<b>A</b>	4-5-8	23	133.1	85—		SAA except very pale brown (10YR 8/2), medium dense	
SS Z	<b>A</b>	12-15-17	10.5	133.1_	90-		SAND, silty (SM) - Very pale brown (10YR 8/3), wet, dense, fine to medium grained, nonplastic, -HCL	
SS Z	<b>A</b>	6-6-7	13	122.1	95—		SAA except medium dense, coarse grained	End logging by C. Gandy.
SS Z4	4	5-8-11	24	123.1_	100-		SILT, sandy (ML) - Very pale brown (10YR 8/3), moist, very stiff, low plasticity, fine grained SAND, +HCL	Begin logging by L. Davis.
SS Z	<b>A</b>	11-29-27	26	115.1_	105-		SAA except very pale brown (10YR 8/4), hard	Top of Blue Bluff Marl at a depth of
				SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3032</b>



GE	EC	TECHNICAL LO	<u> </u>	OJE(		3 & 4	l C	DL Project   JOB NO.   SHEET NO.   SHEET NO.   3 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>7</del> 2nd 6" <u>0</u> 3rd 6" <del>-</del> 3	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field secologis/enginer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	•	16-50/5"	16		110-		SILT, with sand (ML)- Greenish gray (GLEY1 5/1), damp, hard, nonplastic, fine grained SAND, +HCL	105.0 feet
SS 27	X	<b>A</b>	19-22-47	26		115-	-	SAA except contains minor shell hash and lignite	
SS 28	X	<b>A</b>	13-29-34	24		120-	- - -	SAA except greenish gray (GLEY1 6/1), low plasticity	
SS 29	X	<b>A</b>	16-16-19	25	02.1	125—	- - -	SAA except greenish gray (GLEY1 5/1)	
SS 30	_	•	50/1"	15	93.1_	130-		SAND, with silt (SP-SM)- Greenish gray (GLEY1 6/1), wet, hard, medium grained, nonplastic, +HCL CLAY, silty with sand (CL-ML). Greenish	
SS 31	X	•	16-35-50/4"	26	88.1_	135—	-	gray (GLEY1 5/1), wet, hard, medium plasticity, fine grained SAND, +HCL  SILT, with sand (ML)- Greenish gray (GLEY1 6/1), moist, hard, medium plasticity, fine to medium grained SAND, +HCL	
SS 32	X		18-28-50/2"	23		140-	- - -	SAA except fine grained SAND	Water level depth at end of 1/16/07 = Ground surface
SS 33	X	<b>A</b>	9-10-20	26		145-	-	SAA except greenish gray (GLEY1 6/5GY), very stiff, low plasticity	Ground surrace
SS 34	X		48-50/6"	16	70.6_	- -		SAA except light greenish gray (GLEY1 7/10Y), medium plasticity Boring terminated at 149.5 feet	Water level depth at end of 1/17/07 = Ground surface
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3032</b>



	PROJEC		3 & 4 CO	OL Project	JOB NO. <b>6141-0</b>	06-0286	SHEET NO		OLE NO. <b>B-3033</b>
L. Davis		RDINATES	N 114140		15.2	BEGUN 1/17/20(	17	1/23/2	
DRILLER	DRILL	MAKE AND	MODEL	HOLE DIAME	TER	HAMMER SE	ERIAL NUMB		TOTAL DEPTH
Melvin-MACTEC  GROUND EL. DEPTH/EL. GROUND WATER S	SITE:	C	CME-75	4 Ir	iches		219505		149.3
222.3				Vogtle Electr	ic Gene	rating Pl	ant - Wa	ynesboi	o, GA
A N-VALUE (SPT)  O WATER CONTENT %  For part of the pa	3rd 6" \( \frac{\pi}{\pi}\)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIOI  (* = field cla laboratory tes of sample by	ssification adius		TION		LEVELS, CTER OF G AND TORY
SS   2-3-5   5-7-7   5-4-5   5-3-5   5	7   17 5   11 5   13	222.3	5-	SAND, with sil 5/1), damp, loos grained SAA except we SAA except we SAA except we SAA except we	ak red (10 ak red (10 ak red (10	OR 4/3), med OR 4/2), loose	ium dense e	Top of B Group at 0.0 feet	arnwell a depth of
SS 6 UD 1 4-5-5	11 14		15—	SAA except red Pocket Penetron	l (10R 4/6) meter: 0.5	) TSF		Direct Pu	ısh
SS 7 5-5-7	7 10		20-	SAA except we moist, medium	ak red (10 dense	PR 4/3), dam	p to		
SS 8 5-8-6	5 11	195.3_	25-	SAA except we yellow (5YR 6/	ak red (10 6)	PR 4/3) and r	eddish		
	26.5	190.3_	30-	*SAND, silty (\$7/8), moist, med Pocket Penetron	SM)- Reddium dens neter: 1.1	dish yellow e, low plasti TSF	(5YR city	Direct Pu	ash
	15		35-	SAND, with sil (5YR 7/6), mois Pocket Penetron	t (SP-SM st, mediun neter: 0.7:	)- Reddish y n dense 5 TSF	rellow	Direct Pu	ısh
UD 4 O	13		40-	SAA except red nonplastic to lo Pocket Penetror	ldish yello w plasticit neter: 0.3	ow (5YR 7/7) cy TSF	),	Direct Pu	ısh
SS 9 9-12-1	15 11	175.3_	45-	SAA except bro	ownish yel	llow (5YR 6/	/8),		
SS	5 14		<del>-</del>	SAND, silty (Sl 6/8), moist, med	M)- Greer	nish yellow (	10YR		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE	1	SITE	Vogtle 305 of 724	e Units 3 & 4 CO Final Log	L Project	t		HOLE NO.	3033



GE	OTECHN	NICAL	. LOG		ogtl		3 & 4	C	OL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO		HOLE NO. <b>B-3033</b>
/S	M N-VALUE  WATER  H ATT. LIM  □ FINES %  20 40	CONTENT	80 N-0	2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field cl	IN AND CLASSIFICAT assification adjusted based on sting data and/or re-examination r field geologist/engineer)	ΓΙΟΝ		LEVELS, CTER OF IG AND ATORY
10							-						
SS 11				8-6-12	16	165.3_	55—		SAA except br nonplastic to lo	ownish yellow (10YR ow plasticity	6/8),		
SS 12			1	1-14-15	8.5	103.3_	60-		<b>SAND, with si</b> (7.5YR 6/6), m	It (SP-SM)- Reddish yooist, medium dense, -l	yellow HCL		
SS 13	<b>A</b>			5-6-7	19	160.3_	65—		SAND, clayey moist, medium low plasticity,	(SC)- Yellow (10YR dense, fine to medium	7/6), n grained,		
SS 14	<b>A</b>		1	1-16-19	13	155.3_	70—		SAND, with si 7/6), moist, me -HCL	It (SP-SM)- Yellow (I dium grained, dense, r	 10YR nonplastic,		
SS 15				5-7-10	14	145.3_	75—		SAA except ve medium dense	ry pale brown (10YR	8/4),		
SS 16				9-9-13	13	143.3_	80-		SAND, silty (S 8/3), moist, me low plasticity,	SM)- Very pale brown dium dense, medium g -HCL	————— (10YR grained,		
SS 17				9-9-11	18	135.3	85—		SAA except no	onplastic to low plastic	ity		
SS 18			19	9-21-15	24	130.3_	- - 90—		SILT, with san (GLEY2 8/5G' grained SAND	nd (ML)- Greenish gra Y), moist, medium plas , +HCL	ay sticity, fine		
SS 19			3	9-50/2"	8	125.3	95—		SAND, silty, c Light greenish very dense, me	layey with gravel (SC gray (GLEY2 8/10Y), dium plasticity, +HCL	C-SM)- moist,		
SS 20	X *			7-8-11	27	143.3_	100-		SILT, sandy ( moist, very stif	ML)- Yellow (10YR & f, medium plasticity, +	 3/6). -HCL	Water le	vel depth at /18/07 =
SS 21			5	5-50/3"	15	119.3_	105—		SILT, with sa (GLEY1 5/10Y	nd (ML)- Greenish gray), damp, hard, nonpla	 ay stic, +HCL	Ground Water le beginnir = 46.0 fe Top of I Marl at a 103.0 fe	evel depth at ag of 1/22/07 eet Blue Bluff a depth of
		<u> </u>	:			SITE	V 306 of	_	e Units 3 & 4 CO Final Log			HOLE NO	3033



GE		TECHNICAL LOC	~	OJEC ogtl		3 & 4	C	DL Project   JOB NO.   SHEET NO.   SHEET NO.   3 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6"	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field ecologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 22	×		16-50/2"	13		110-		SAA except low plasticity	Water level depth at beginning of 1/19/07 = 44.5 feet
SS 23	_	•	50/1"	1.5		- - 115—	-	SAA except nonplastic, contains cemented layers	
SS 24	*		50/2"			120-		SAA	
SS 25	X	<b>A</b>	17-22-27	27		125—	-	SAA except greenish gray (GLEY1 6/10Y)	
SS 26	X	4	23-50/5"	17		130-		SAA except low plasticity	
SS 27	X		40-43-50/3"	20		135—	-	SAA except nonplastic	
SS 28	X		10-26-50/3"	28	85.3_	- - 140-		*CLAY, silty (CL-ML)- Greenish gray (GLEY1 6/10Y), moist, hard, high plasticity, contains cemented layers, +HCL	
SS 29	×		20-50/3"	15	80.3_	145—		SILT (ML) - Greenish gray (GLEY1 6/10Y), damp, hard, low plasticity, +HCL	
SS 30	$\boxtimes$		49-50/3"	18	73.5_	- - -		SAA except moist Boring terminated at 149.3 feet	Water level depth at end of 1/22/07 = Ground surface
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3033</b>



GF	:OI	ECHNICAL LO	C	OJEC		2 0 4	COL		JOB NO.	26.0206	SHEET NO		HOLE NO.
LOGGI			•		e Units	3 & 4	COL	roject	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	<b>B-3034</b> ETED
		B. Sharp						E 6219		12/18/20		12/21/	2006
DRILLE		O.L.L. MACTEC	D	RILL	MAKE AND			HOLE DIAN		HAMMER SE		ER	TOTAL DEPTH
GROU		Oglesby-MACTEC  DEPTH/EL. GROUND WAT	ER SITI	E:	C	ME-7:	5	4 1	Inches		219907		149.2
2	24.7	<u>♀</u> / <u>▼</u> /					Vog	tle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	ro, GA
		NINALLIE (ODT)		)									
/PE J.		N-VALUE (SPT)	N-COUNT	Y (i)	NO T	님	ပ္ပ					NOTES	
F.O	SAMPLE +	WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	VER	VATI FEE	돈	GRAPHICS FID			LASSIFICAT	ION	CHARA	R LEVELS, CTER OF
SAMP. TYPE AND NO.		- ATT. LIMITS %		RECOVERY (in)	ELEVATION IN FEET	DEPTH IN	98 	laboratory t of sample b	classification adju testing data and/o by field geologist/	sted based on r re-examination engineer )		LABOR	NG AND ATORY
•,		] FINES % _20		₩	224.7							TESTIN	IG
SS	M	20 40 00 00	5-6-9	2	223.2	*	<b>SA</b> (10)	ND, silty w	vith gravel	(SM)- Weal /6), moist, m	c red	Top of l	Fill at a depth
1 SS 2 SS	X	<b>A</b>	6-7-6	16	222.2_	<del>   </del>	\den	se, fine to	coarse gran	ned, -HCL 0R 3/6), moi	/	Top of 1	Barnwell at a depth of
SS		<b>A</b>	6-10-10	12.5	221.4_		-∵    \me	dium dense	fine grain	ied (	· /r1	1.5 feet	a dopui or
3						5	3/6 SA	), moist, m ND (SP) -	edium dens Light red (1	D- Dark red ( se, fine grain for 6/6) and dense, very	ed dark red	Water le	evel depth at 2/18/06 =
SS 4	X	1	5-8-10	11			1 Tine	orainea				Borehol	e dry
SS	$\forall$	<b>A</b>	5-7-9	9		1	(10 SA	R 6/4)	gnt rea (10	R 6/6) to pal	e rea		
5					214.2_	10-	111						
SS 6			3-5-6	9	211.7	]	SA 3/6	ND, with s ), moist, m	ilt (SP-SM edium dens	<ul><li>Dark red ( se, very fine f</li></ul>	10R to fine		
SS	H	<b>\</b>	3-5-5	11	211./_	+		i <u>ned, -HCL</u> ND, silty (		red (10R 3/6			
7	А					15-	loo gra	se to meditined, -HCL	ım dense, v	red (10R 3/6 very fine to fi	ne		
					207.7_	1							
22	H .	<b>A</b>	3-5-7	12		<u> </u>	SA	ND with s	ilt (SP_SM	I)- Red (10R	5/8)		
SS 8	Å					20-	mo -HO	ist, mediun	n dense, ve	ry fine to fine	e grained,		
						1.							
cc		<b>A</b>	5-9-8	6			SA	<b>A</b>					
SS 9	Д					25	JII SA	A					
						1							
LID				14		1			. 1:	. 1		D: 4 F	<b>.</b> 1
UD 1				14		30-	Poo	A except ii ket Penetro	me to mean ometer: 2.2	um grained 5 TSF		Direct F	rusn
	П				192.7_								
				1.5						·		<b>D</b> : =	
UD 2				15		35	SA yell	ND, silty (lowish browns	SM) - Red ( wn (10YR : medium cr	(10R 5/8) to 5/8), moist, rained	nedium	Direct F	rush
	П						Poo	eket Penetro	ometer: 1.0	TSF			
				10.5							<b>7</b> (0)	ъ:	
UD 3				16.5		40-	SA Poo	A except yoket Penetro	ellowish brometer: 0.2	own (10YR : 5 TSF	5/8)	Direct F	'ush
	П				182.7								
						1							
SS 10	M		9-11-11	12.5		45	<b>SA</b> (10	<b>ND, with s</b> YR 6/8), m	ilt (SP-SM loist, medit	l)- Brownish im dense, fin	yellow ie to		
					177.7		me	dıum graın ning, -HCI	ed, contain	s black mang	ganese		
					* / / - / =	‡							
SS	X		7-12-10	8.5	1					vnish yellow se, fine to me	(10YR dium		
		BY: A. TAYLOR BY: P. DEPREE			SITE	Vo		ts 3 & 4 C nal Log	OL Projec o	t		HOLE NO	-3034
IVE VIE	** L D E	71.1. DEI NEL				308 of 7		nai LU	5			<u> </u>	JUJ7



GEO	OTECHNICAL LOG	•	OJEC		2 0- 1	C	OI Duoinat	JOB NO.	SHEET NO	
			ogtio	e Units	3 & 4		OL Project	6141-06-0286	<b>2</b> OF	B-3034
SAMP. TYPE AND NO. SAMPLE	<ul><li>○ WATER CONTENT %</li><li>+ ATT. LIMITS %</li><li>□ FINES %</li></ul>	1st 6" - <del>2</del> 2nd 6" O 3rd 6" <u>-</u> 2	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field cl	ON AND CLASSIFICAT assification adjusted based on string data and/or re-examination y field geologist/engineer)	ION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
11	20 40 60 80			172.7_			grained, contai	ns CLAY lenses and blining, -HCL	ack	
SS 12	<b>A</b>	3-4-5	18	167.7	55—		CLAY, sandy 5/8), moist, stil plasticity, cont staining, -HCL	(CL)- Yellowish brow ff, fine grained SAND, ains trace black mangar	n (10YR low nese	
SS X	<b>A</b>	5-8-7	13	165.2_	60		\grained, -HCL	SM)- Reddish yellow (7 dium dense, fine to me	7.5YR dium	
SS X	<b>A</b>	4-3-5	18	162.7_	65		CLAY, sandy 5/8), moist, me	(CL)- Yellowish brow	n (10YR plasticity,	
ss 🗸	<b>A</b>	4-9-11	18	157.7_	-		ine to medium	grained SAND, -HCL		
15				152.7_	70-			(SC)- Brownish yellow		Top of Utley Limestone at a depth of 72.0 feet
SS 16		8-12-13	18	147.7_	75 –		SAND, silty (S moist, medium -HCL	SM)- Yellow (10YR 7/6 dense, fine to medium	6), grained, 	of 72.0 feet
SS 17	<b>A</b>	WOH/12"-5	18	142.7_	80-		SILT, sandy ( moist, medium -HCL	ML)- Pale yellow (2.5° stiff, fine to medium g	Y 8/4), rained,	
SS 18	<b>A</b>	10-18-17	18	137.7_	85 —		SAND, silty (S moist, dense, f trace shell frag	SM)- Pale yellow (2.5Y ine to medium grained, ments, -HCL	8/3), contains	
SS 19	•	8-10-12	16	132.7	90-		SAND (SP) - F medium dense contains trace	Pale yellow (2.5Y 8/3), fine to medium graine shell fragments, -HCL	moist, d,	
SS 20		WOR/30"	18		95 —		SILT, sandy ( wet, very soft, grained SAND -HCL	ML)- Pinkish gray (7.5 nonplastic, fine to med , contains trace shell fra	YR 7/2), ium agments,	Loss of 90 gallons of drilling fluid from depths of 93.5 to 97.0 feet
SS 21	<b>A</b>	5-9-10	18	127.7_	100-		SILT, with sa moist, very stif nonplastic, +H	nd (ML)- Pale olive (5' ff, very fine grained SA CL	Y 6/3), ND,	Loss of 100 gallons of drilling fluid from depths of 98.5 to 103.5 feet
SS Z2	<b>A</b>	7-10-19	18	122.7_ 118.7_	105—		SILT (ML) - F stiff, nonplastic SAND lenses,	Pale olive (5Y 6/3), moi c to low plasticity, cont +HCL	st, very	Water level depth at end of 12/19/06 = Ground surface Water level depth at beginning of 12/20/06 = 27 0 feet
				SITE	Vo		e Units 3 & 4 CO Final Log	OL Project		Boring collapsed to 73.0 feet HOLE NO. B-3034



GE	EC	TECHNICAL LOC	•	OJE(		3 & 4	· C(	JOB NO. SHEET NO. OL Project 6141-06-0286 3 OF	
SAMP. TYPE AND NO.	SAMPLE		1st 6" -7 2nd 6" 00 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 23	X	<b>A</b>	10-15-26	18		110-		*SILT, sandy (MH)- Dark greenish gray (5GY 4/1), moist, hard, very fine to fine grained SAND, contains cemented shell fragments, +HCL	Top of Blue Bluff Marl at a depth of 106.0 feet
SS 24	X	<b>A</b>	17-27-29	18		- 115—		SAA except contains abundant shell fragments	
UD 4		○+		24		120-		SAA Pocket Penetrometer: >4.75 TSF	Pitcher
SS 25	X	<b>A</b>	15-19-22	18		125-		SAA	
SS 26	X	<b>A</b>	15-22-39			130-		SAA	
SS 27	X	<b>A</b>	19-19-33	18	87.7_	135-		SAA	Water level depth at end of 12/20/06 = Ground surface
UD 5		© <del>-</del> − +		13		140-		*CLAY, with cemented fragments (CL)- Dark greenish gray (5GY 4/1), moist, hard, +HCL Pocket Penetrometer: >4.75 TSF	Water level depth at beginning of 12/21/06 = 47.0 feet Boring collapsed to 105.0 feet
SS 28	X		45-50/2"	7		145—		SAA except greenish gray (5GY 5/1), contains cemented fragments	Changed to a 2 7/8" drill bit
SS 29	X		18-50/2"	1	75.5_	-		SAA Boring terminated at 149.2 feet	
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3034</b>



GE	ΞΟ	OTECHNICAL LO	<u> </u>	OJEC		2040	OI Ductors	JOB NO.	0.000	SHEET NO		HOLE NO.
LOGG			•		DINATES	3 & 4 C	OL Project	0141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	B-3035 .ETED
		M. Cooke					29.2 E 6210	675.4	2/9/200	7	3/14/	
DRILLI	ER		D	RILL	MAKE AND		HOLE DIAM		HAMMER SE			TOTAL DEPTH
GROU	ND	Warren-A.E. Drilling EL. DEPTH/EL. GROUND WAT	ER SITI	<u>.                                    </u>	<b>C</b> .	ME-750	3 ]	nches		328848		150.5
	19	$\nabla$ /	LIX JOIN				Vogtle Elect	ric Gene	erating Pla	ant - Wa	ynesbo	oro, GA
												-
SAMP. TYPE AND NO.		▲ N-VALUE (SPT)	N-COUNT	RECOVERY (in)	N L	မ					NOTES	
∑N	SAMPLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ER	ATI(	밀	DESCRIPTION	ON AND CI	ASSIFICAT	ION		R LEVELS, CTER OF
AMP AND	SAI	+ ATT. LIMITS %	1 2 2	8	ELEVATION IN FEET	DEPTH IN F	( * = field o	lassification adju esting data and/or y field geologist/	sted based on		DRILLII	NG AND ATORY
Š		☐ FINES %		묎	Ш		of sample t	y field geologist/	engineer)		TESTIN	iG
SS	$\forall$	20 40 60 80	2-3-9	12	219.3	77.	SAND claves	(SC)- Rec	1 (2 5VR 5/8	) damn	Top of	Barnwell
1 1	$\mathbb{A}$	<b>Å</b>	5-7-12	12	217.8_		SAND, clayey medium dense CLAY, with	e, fine to me	edium graine Red (2 5YR	5/8) and	Group a	it a depth of
SS 2 SS			0.12.16	10	216.1_	-///	white (2.5YR	8/1) <u>,</u> damp	, very stiff			
	X		9-12-16	18		5	SAND, silty ( moist, mediun	SM)- Ligh n dense, fin	t red (2.5YR e to medium	7/8), grained,		
SS	$\mathbb{H}$	<b>A</b>	14-16-20	18			subrounded SAA except d	ense				
4	H											
SS 5	M		12-16-16	18		10	SAA except b	rownish ye	llow (10YR o	6/8), dry		
SS		<b>A</b>	12-14-16	15		10-	SAA except re	od (2 5VR 4	5/8) medium	dense to		
6	A						dense	u (2.51K.	o/o), meaium	delise to		
ss	M	<b>A</b>	12-12-15	18			SAA					
7	H					15						
					202.3_	111						
SS	$\mathbb{H}$	<b>A</b>	8-8-9	12			SAND, with s	ilt (SP-SM	n- Brownish	vellow		
SS 8	A					20-	SAND, with s (2.5YR 6/8), o medium grain	lry, mediun ed, subrour	n dense, fine ided to suban	to igular		
						1						
CC.	Ц		5-6-8	15		- 1	CAA					
SS 9	Д		3-0-0	13		25	SAA					
						- 1	<u> </u>					
						]						
SS 10	M		3-5-6	12		30-	SAA					
					1072	50 ]						
					187.3_		<del> </del>					
SS 11	X		3-4-6	18		-	SILT, with sa moist, stiff, lo	nd (ML)-	Yellow (10Y	R 7/6),		
11						35-	moist, stiff, io	w plusticity	, mie grame	u S/ II VD		
					182.3_		+					
SS	$\forall$	<b>A</b>	4-6-8	18			SAND, silty (6/6), moist, m	SM)- Brow	nish yellow	(2.5YR		
12	H					40	grained, conta	ins trace sh	se, tine to me sell hash and	dium		
					177.3_		manganese sta	g				
SS	$\mathbb{H}$	<b>A</b>	2-2-3	18			SAND, claves	( <b>SC</b> )- Yel	llow (2.5YR	8/8).		
13	A					45-//	SAND, clayed moist, medium	n stiff, cont	ains 4" CLA	Y séam		
SS	H	<b>A</b>	3-2-4	18		-//	SAA except c	antaina aa-	na manaanaa	a ctainina		
	M DF	ED BY: A. TAYLOR		.,	SITE	Vact	le Units 3 & 4 C				HOLE NO	)
		D BY: P. DEPREE					Final Log		ι			-3035
						311 of 72	4					



GE	EC	TECHNICAL LO	<u> </u>	OJE( ogtl		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 or	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>7</del> 2nd 6" <u>0</u> 3rd 6" <del>-</del> 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14					167.3_	-			
SS 15	X	<b>A</b>	8-8-7	18		55-		<b>SAND, silty (SM)</b> - Brownish yellow (2.5YR 6/6), moist, medium dense, medium to coarse grained, subrounded to subangular, contains trace manganese staining	
SS 16	X	<b>A</b>	10-15-7	12	157.3_	60-		SAA	
SS 17	X	<b>A</b>	7-11-14	6	137.3_	65—		SAND (SP) - Yellow (10YR 8/6), wet, medium dense, medium to coarse grained, subrounded to subangular	
SS 18	X	<b>A</b>	6-9-12	7	147.3	70-		SAA	
SS 19	X	<b>A</b>	5-6-7	12	147.5_	75—		SAND, with silt (SP-SM)- Light greenish gray (GLEY2 8/10Y), wet, medium dense, medium to coarse grained	
SS 20	X		45-50/3"	6	141.3_ 137.3_	80-		*SAND, clayey (SC)- White (GLEY1 8/N), moist, very dense, contains cemented shell fragments, +HCL	Top of Utley Limestone at a depth of 78.0 feet Loss of circulation
SS 21	×		50/3"	0	137.5_	- - 85—		NO RECOVERY	
					129.3_	90-			Top of Blue Bluff Marl at a depth of 90.0 feet End logging by M.
UD 1		0⊢		12	121.2	95—	-	*SILT(MH) - Greenish gray (GLEY1 5/10Y), damp, high plasticity, +HCL Pocket Penetrometer: >4.5 TSF	End logging by M. Cooke. Begin logging by L. Davis. Installed 6" steel casing to a depth of 95.0 feet Pitcher
SS 22	X		14-50/5"	18	121.3_	100-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/5GY), damp, hard, low plasticity, contains trace shell hash and organics, +HCL	1 Iteliei
UD 2		0		22	112.3_	105-		SAA except greenish gray (GLEY1 6/10Y), no shells or organics Pocket Penetrometer: >4.5 TSF	Pitcher
				•	SITE	312 of	_	e Units 3 & 4 COL Project Final Log	HOLE NO. B-3035



GE	EC	OTECHNICAL LOG	<u>•</u>	OJEC ogtl		3 & 4	l C(	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 OF	
SAMP. TYPE AND NO.	SAMPLE		1st 6 7 2nd 6" 0 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 23	M		50/5"	6	107.3_	110-		CLAY (CL)- Greenish gray (GLEY1 6/10Y), moist, hard, nonplastic to medium plasticity, contains some organics and compacted zones, +HCL	
SS 24	X	<b>A</b>	21-22-35	23	102.3_	115-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 6/10Y), damp, hard, low plasticity, contains shell hash, +HCL	
SS 25	X		50/5"	7	97.3_	120-		CLAY (CL) - Light greenish gray (GLEY1 7/10Y), moist, hard, nonplastic to medium plasticity, contains some compacted zones, +HCL	Water level depth at end of 3/13/07 = Top of casing
SS 26	X	,	12-41-35	26		125-		CLAY, silty (CL-ML)- Light greenish gray (GLEY1 7/5GY), damp, hard, low plasticity, contains some compacted zones, +HCL	Water level depth at beginning of 3/14/07 = 42.0 feet
SS 27		· • • • • • • • • • • • • • • • • • • •	50/1"	2		130-		SAA except light greenish gray (GLEY1 8/10Y), damp to moist, nonplastic to low plasticity	
UD 3		0		29	82.3_	135-		SAA except light greenish gray (GLEY1 7/10Y), damp, low plasticity, contains organics Pocket Penetrometer: 4.0 TSF	Pitcher
SS 28	X	•	21-22-22	26	77.3_	140-		CLAY (CL) - Light greenish gray (GLEY1 7/10Y), damp, hard, low plasticity, +HCL	
SS 29	X	•	22-36-30	26		145-		CLAY, silty (CL-ML)- Light greenish gray (GLEY1 7/10Y), damp, hard, low plasticity, +HCL	
UD 4				25	69.3_ 68.8 <sup>-</sup>	150-		SAA Pocket Penetrometer: 3.0 TSF  SAND, silty, clayey (SC-SM)- Reddish brown (2.5YR 4/4), moist, low plasticity, -HCI Boring terminated at 150.5 feet	Pitcher  Top of Still Branch Formation at a depth of 150.0 feet Water level depth at end of 3/14/07 = Top of casing
					SITE	v	ogtl	e Units 3 & 4 COL Project	HOLE NO.
								Final Log	B-3035



GEC	TI	=CH	NIC	AL I	. O	<u> </u>	ROJEC		2.0.4	~	O. D	JOB NO.	26.0206	SHEET NO		HOLE NO.
LOGGED						v		e Units :	3 & 4	C	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMP	B-3036
LOGGED	וט	M	Harv	vev			JOOR		N 114	2.4	41.6 E 6216	76.0	11/8/200	)6		/ <b>2006</b>
DRILLER		1710	1141	. <i>- J</i>			RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
				CTE				C	ME-	75	4 I	nches		211797		155.0
GROUND 217		DEP⁻ ☑ / ☑ /		GROUNE	O WATI	ER SIT	E:				Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesh	oro. GA
		<u> </u>									- vogete Elect	THE GUIN	or according 1 in		JICSO	310, 311
SAMP. TYPE AND NO. SAMPLE	0 +	ATT. L	R CON IMITS	TENT %		1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory t of sample b	lassification adiu		ION	CHARA DRILLI	R LEVELS, ACTER OF NG AND RATORY
ss		20 _ 4	40 6	<u> </u>	U	14-16-16	16	217.9 217.5			GRAVEL (G	P) - Parking	g lot		Top of	Fill at a depth
1 SS 2 SS 3	C		•			17-22-24 7-10-15	11		- - - 5—		*SAND, silty dense SAA except ye grained SAA except m grained	ellowish re	d (5YR 5/8),	fine	of 0.0 f Top of Group a 0.4 feet	Barnwell at a depth of
SS 4	,	<b>A</b>				7-12-14	8		-		SAA except ye (2.5YR 4/6), fi	ellowish re ine grained	d (5YR 5/8) a	and red		
SS 5	,	<b>A</b>				7-10-13	12		10-		SAA except re	d (10R 4/6	(i)			
						11-13-16	5		-		SAA except re grained	d (2.5YR 4	4/8), fine to n	nedium		
SS 7						9-11-11	11		15-		SAA					
SS 8		•				11-11-17	9		20-		SAA except re yellowish red	ddish yello (5YR 5/8)	ow (7.5YR 7/	(8) and		
SS X		<b>A</b>				11-12-9	9		25-		SAA except re	ddish yelld	ow (7.5YR 7/	(8)		
SS 10	, A	<b>\</b>				8-6-10	10	185.9	30-		SAA					
SS 11	7	•				22-14-14	18	183.6_ 180.9	35-		SAND, clayey medium dense SAND (SP) - V medium dense	Very pale b	`	/		
SS X		\				7-8-7	18		40-		SAND, clayey damp, medium	(SC)- Yel	llow (2.5Y 7/	(6),		
SS X	•		 O			3-4-6	18	175.9_	  45 	(//	*SAND, silty damp, medium	(SM)- Yel dense, fin	low (2.5Y 7/0	6),		
ss 🛚		<b>A</b>				7-12-14	7		- -		SAA except ye					
PREPARE REVIEWE								SITE	V 314 of	_	e Units 3 & 4 Co Final Log		t		HOLE N	-3036



GE	EC	OTECHNICAL L	$\mathbf{C}$	OJE(		3 & 4	C	JOB NO.   SHEE   OL Project   6141-06-0286   2	T NO.	HOLE NO.  B-3036
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" z 2nd 6" co 3rd 6" zx	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N W C D	OTES ON: /ATER LEVELS, HARACTER OF RILLING AND ABORATORY ESTING
SS 15	X	<b>A</b>	9-11-13	8		- - - - 55 —		SAA except yellow (10YR 7/6)		
SS 16	X	<b>A</b>	7-8-5	8	155.9	60-		SAA except pale yellowish brown (10YR 7/4 moist	Wei	Vater level depth at and of 11/8/07 = round surface
SS 17	×	<b>A</b>	5-7-8	10	133.9_	65 —		SAND, clayev (SC)- Light greenish gray (GLEY1 8/1/10Y), damp, medium dense, fin grained	L	oss of circulation at depth of 62.5 feet
SS 18	X	<b>A</b> □	4-3-4	14		70-		SAA except light greenish gray (GLEY1 8/1) loose	),	
SS 19	X		17-22-50/2"	10	144.4_ 140.9_	75—		CLAY, with sand (CL)- Light greenish gray (GLEY1 8/1), moist, very dense, fine grained SAND, contains shell fragments		op of Utley imestone at a depth f 73.5 feet
SS 20			50/1"	1	135.9_	80-		*SHELL HASH, clayey (GC)- Pale yellow (2.5Y 8/2), moist, very dense	l de	epth of 77.0 feet
SS 21	X	<b>▲</b> (D)	5-7-9	18		85—		*SILT, sandy (ML)- Light yellowish brown (2.5Y 6/3), dry to damp, very stiff, low plasticity	ı	
SS 22	×	D	50/4"	4	129.9_	90-		*SILT, with cemented fragments (ML) Greenish gray (GLEY1 5/1/5GY), damp, ver dense		op of Blue Bluff larl at a depth of 3.0 feet
SS 23	_		50/1"	1	120.9_	95— -		SAA except wet, contains shell fragments		
SS 24	X	+▲+	15-19-25	18	115.9_	100-		*SILT (MH) - Greenish gray (GLEY1 5/1/10Y), damp, hard		
SS 25			50/1"	0	OITE	105-		NO RECOVERY		N.F.NO.
					SITE	V <del>315 of</del>	_	e Units 3 & 4 COL Project Final Log	HC	B-3036



ID NO.	VALUE (SPT) ATER CONTENT % T. LIMITS % NES % 40 60 80	1st 6" N-connumber 2 2nd 6" 20/1	o RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATI  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	ON	NOTES ON: WATER LEVE CHARACTER DRILLING ANI LABORATOR	OF
26  SS 27  SS 28  SS 28  SS 30  SS   SS   SS   SS   SS   SS   S	<b>⊢</b> ––+	50/1"	0				. , , , , ,		TESTING	Υ
SS 28  SS 29  SS 30  SS   SS   SS   SS   SS   SS   S	++			105.0	110-		NO RECOVERY			
28		50/2"	14	105.9_	- - 115—		*CLAY (CH)- Gray (GLEY1 5/1/10Y damp, hard, contains shell hash	7),		
29 △ SS ⊠ 30  SS ▽		50/2"	4		120-		SAA			
30 SS ▽		42-33-50/2"	12		125—		SAA			
		27-50/4"	12		130-		SAA			
:	<b>A</b>	13-14-32	12		135—		SAA			
SS 32	<b>A</b>	15-14-30	12		140-		SAA			
SS 33	<b>A</b>	12-15-24	12		145—		SAA			
SS 34	<b>A</b>	18-17-31	12		150-		SAA		Water level de beginning of 1 = 62.33 feet	pth at 1/14/07
SS 35	<b>A</b>	10-15-25	12	64.4_ 62.9_	155—		*SAND, with clay (SP-SC)- Dark gra (GLEY1 4/N), wet, dense Boring terminated at 155 feet	<u>y</u>	Top of Still Bra Formation at a of 153.5 feet	
									HOLE NO.	



GEOTECHNICAL L	C	OJECT	Inits 3	& 4 C	OL Project	JOB NO.	06-0286	SHEET NO 1 OF		7
LOGGED BY		OORDIN	ATES		•		BEGUN		COMPLETED	
L. Davis	D	RILL MAI	KE AND M		57.4 E 6217 HOLE DIAM		2/14/200 HAMMER SE		<b>2/16/2007</b> ER   TOTAL DI	EPTH
Bilbrey-Miller Drillin			CM	1E-85	4 1	nches		270256	150.	.0
GROUND EL. DEPTH/EL. GROUND V  222.9   □  □  □  □  □  □  □  □  □  □  □  □  □	VATER SITE	E:			Vogtle Elect	ric Gene	rating Pla	ant - Wa	ynesboro, GA	
							<u> </u>		,	
MANON N-VALUE (SPT)  A N-VALUE (SPT)  O WATER CONTENT %  H ATT. LIMITS %  □ FINES %	1st 6" - <del>7</del> 2nd 6" O 3rd 6" Z	~	IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIC  (* = field of laboratory) of sample by	ON AND CL classification adjustication adjustication and/or esting data and/or by field geologist/o	sted based on	ION	NOTES ON: WATER LEVELS CHARACTER OF DRILLING AND LABORATORY TESTING	,
SS X = : : : : : : : : : : : : : : : : : :	2-7-11	12	222.9		SAND (SP) -	Red (2.5YR	5/8), damp,	a UCI	Top of Barnwell	
1 SS X 2 SS X 3	8-10-13 7-12-15	15	221.4_ 219.7_	5—	medium dense SAND, with s damp, mediun -HCL SAND, with s red (10YR 5/6 grained, low p	ilt (SP-SM n dense, fin	)- Red (2.5Y) e grained, no	R 5/6), onplastic,	Group at a depth of 0.0 feet	)[
SS 4	10-24-24	15	217.4_	-	grained, low p SAND, with s 6/8), damp, de	lasticity, -I ilt (SP-SM ense, fine gr	ICL  - Light red ( ained, nonpl	$\frac{7}{(2.5\overline{YR})}$		
SS 5	3-6-5	14		10-	SAND, silty, 6 5/8), damp, m plasticity, -HO	clayey (SC- edium dens	-SM)- Red (2 e, fine grains	2.5YR ed, low		
SS 6 SS V	8-11-13 11-10-12	14	209.9_		SAA except y					
7 🐰	11 10 12		206.2_	15-	SAND, with s 6/8), damp, m nonplastic to l	edium dens ow plasticit	e, fine graine ty, -HCL	(2.31 K ed,		
SS 8	8-15-15	12	201.2_	20	SAND, silty, 6 (5YR 5/6), mo grained, with 6	clayey (SC- pist, mediun clayey silt,l	-SM)- Yellov n dense to de ow plasticity	wish red ense, fine r, -HCL		
SS 9	10-9-16	13	196.2_	25	SAND, silty (17/8), moist, monplastic, -H	SM)- Redd edium dens CL	ish yellow (7 e, fine grains	7.5YR ed,		
SS N	11-15-12	14		30	SAND, silty, 6 4/8), moist, m plasticity, -HC	clayey (SC- edium dens	-SM)- Red (2 e, fine grains	2.5YR ed, low		
SS 11	8-8-8	17	186.2	35	SAA except li	ght red (2.5	SYR 6/8)			
SS 12	3-6-7	22		40-	CLAY, silty, yellow (10YR plasticity, -HC	sandy (CL 6/6), moist L	-ML)- Brown	nish um	Water level depth end of 2/14/2007	
SS X	3-8-10	18		45	SAND, silty, of yellow (7.5YF) grained, with silty -HCL	clayey (SC- 8 6/8), mois silty clay m	-SM)- Reddi t, medium de atrix, low pla	sh ense, fine asticity,	Ground surface Water level depth beginning of 2/15/2007 = 39.0	at feet
SS 🗸 🔺	3-5-6	18			SAA					
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		S	1TE 31	Vogt <del>17 of 72</del>	le Units 3 & 4 C Final Log		t		HOLE NO. <b>B-3037</b>	



GE	OTECHNICAL LO	<u> </u>	OJE(		3 & 4 C	OL Project   JOB NO.   SHEET NO   2 OF	
SAMP. TYPE AND NO.	■ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>z</del> 2nd 6" <u>0</u> 3rd 6" <u>z</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14				171.2_			
SS 15		6-5-5	14	166.2	55-	SAND, silty (SM) - Reddish yellow (7.5YR 7/8), moist, loose to medium dense, fine grained, nonplastic, -HCL	
SS 16		8-13-13	12	100.2_	60-	SAND, with silt (SP-SM)- Yellow (10YR 7/8), moist, medium dense, fine to medium grained, nonplastic, -HCL	
SS 17		8-11-11	12	156.2_	65-	SAA	
SS 18		1-2-4	20		70-	SAND, clayey (SC) - Reddish yellow (7.5YR 8/6), moist, loose, fine grained with clayey matrix, low to medium plasticity, -HCL	
SS 19		7-13-11	13	151.2_ 146.2	75	SAND, silty, clayey (SC-SM)- Yellow (2.5Y 8/6), moist, medium dense, fine to medium grained, low plasticity, -HCL	
SS 20		2-2-2	11	140.2_	80-	SAND, with silty clay (SP-SC)- Yellow (10YR 8/6), moist, very loose to loose, fine to medium grained, nonplastic, -HCL	Loss of circulation at a depth of 79.0 feet
SS 21		50/1"	3	139.9_	85—	*CLAY, silty, with sand (CL-ML)- Pale yellow (2.5Y 8/4), moist, hard, mostly clay with "lithified" clay material, nonplastic to low plasticity, +HCL	Top of Utley Limestone at a depth of 83.0 feet
SS 22		11-13-21	26	135.9_	90-	CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/10Y), damp, hard, low plasticity, +HCL	Top of Blue Bluff Marl at a depth of 87.0 feet Regained circulation at a depth of 90.0 feet
SS 23		12-13-18	28		- - 95 —	SAA except greenish gray (GLEY1 5/GY)	
SS 24	*	50/5"	24		100-	SAA except greenish gray (GLEY1 6/10Y)	
SS 25	<b>A</b>	10-12-21	23		105-	SAA except greenish gray (GLEY1 5/10Y)	
				SITE	Vog	ie emis e a i e e e i i o jece	HOLE NO. <b>B-3037</b>
				1	040 - C = C	Final Log	D-202/



GE		OTECHNICAL LOC	~	OJE(		3 & 4	l Co	JOB NO. SHEET 6141-06-0286 3	Γ NO. OF	3 HOLE NO. B-3037
SAMP. TYPE AND NO.	SAMPLE		1st 6" - z 2nd 6" O 3rd 6" - z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	1 / 1	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>△</b>	11-14-31	28	111.2_	110-		*SAA except greenish gray (GLEY1 6/10Y)		
SS 27	X	<u></u>	15-17-23	28	106.2_	- - - 115		*CLAY (CL)- Greenish gray (GLEY1 6/10Y), damp to moist, hard, low plasticity, contains shell hash, +HCL		
SS 28	X	Å	6-12-26	29	100.2_	120-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 6/10Y), damp, hard, low plasticity, +HCL		
SS 29	_		50/1"	10		125-		SAA except, moist, low to medium plasticity -HCL	,	
SS 30	×		50/3"	4		130-		SAA except greenish gray (GLEY1 7/10Y)		
SS 31	X	<b>A</b>	17-20-24	29		135-		SAA except greenish gray (GLEY1 6/10Y), damp, low plasticity, +HCL		
SS 32	X	<b>A</b>	17-26-24	29	81.2_	140-		SAA except greenish gray (GLEY1 7/5GY), nonplastic	,	Water level depth at beginning of 2/16/2007 = 38.0 feet
SS 33	X	<b>A</b>	18-33-37	20	01.2_	- - 145-		CLAY (CL) - Greenish gray (GLEY1 7/10Y moist, hard, medium plasticity, +HCL		2/T6/2007 = 38.0 feet
SS 34	X	<b>A</b>	14-15-21	24	73.9_ 72.9_	150-		SAA except low plasticity SAND, silty, clayey with gravel (SC-SM) Very dark greenish gray (GLEY1 3/5GY), moist, dense, low plasticity, -HCL Boring terminated at 150 feet	. / i	Top of Still Branch Formation at a depth of 149.0 feet
					SITE	•	7	. High 2 8 A COV D		HOLE NO.
l						۷ <del>319 ما</del>	_	e Units 3 & 4 COL Project Final Log		B-3037



.OGGED					3 & 4 C	OL Project	6141-	06-0286	<b>1</b> OF		B-3038
	M. Harvey	cc	OORD	INATES	N 11418	83.0 E 6215	<b>43</b> 2	BEGUN 12/14/20	06	COMPL 12/15/	
RILLER		DF	RILL N	MAKE AND		HOLE DIAME			RIAL NUMBE		TOTAL DEPT
	Warren-MACTEC			C	ME-75	3 Iı	nches		211797		98.9
PROUND 220	$\nabla$ $I$	SITE	i: 			Vogtle Electr	ic Gen	erating Pl	ant - Way	nesbo	ro, GA
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  2Q 40 60 80	2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET 220.8	DEPTH IN FT GRAPHICS	DESCRIPTIO  (* = field cla laboratory tes of sample by	ssification adiu		ION (	CHARA	LEVELS, CTER OF IG AND ATORY
SS 1 SS 2 SS 3	<b>A</b>	7-5-6 3-5-12	10 12 12	219.3_	-	GRAVEL (GP dry, medium de SAND (SP) - R dense SAA except rec	ense ed (2.5YI	R 4/6), dry, m	edium (	Ton of F	Fill at a depth et Barnwell t a depth of
$\begin{array}{c c} 3 & \swarrow \\ SS & \swarrow \\ 4 & \swarrow \end{array}$	$\epsilon$	5-10-12	8		5—	SAA					
SS 5	6	5-10-10	12		10-	SAA					
$\begin{array}{c c} SS & \hline \\ 6 & \hline \\ SS & \hline \end{array}$			12			SAA except rec					
7 △ SS 8		5-8-6	9		20-	SAA except rec	l (10R 4/6	6)			
SS X		8-8-10	7		25-	SAA					
SS 10		9-7-9	11		30-	SAA except rec	ldish yell	ow (7.5YR 6/	(8)		
SS 11		8-19-10	9		35-	SAA except ye moist	llow (10Y	YR 6.5/8), dar	np to		
SS 12		2-3-5	16	178.8_	40-	SAA except ye contains traces	llow (10Y of CLAY	(R 6.5/8), mo	ist, loose,		
SS X		6-5-10	18	173.8_	45-//	SAND, clayey moist, medium	(SC)- Ye dense	ellow (10YR 7	7/6),		
ss		2-12-12	16	SITE	- 1/3/3 - 1/3/3 - 1/3/3	SAND (SP) - B dry, medium de	rownish y	yellow (10YR	6/8),	101 5 115	
	ED BY: A. TAYLOR ED BY: P. DEPREE			SIIE	Vogt	le Units 3 & 4 CC <b>Final Log</b>		ct	-	IOLE NO	3038



GE		OTECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	l CO	JOB NO.   SI DL Project   6141-06-0286	HEET NO	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS	M	<b>A</b>	6-5-5	18	168.8_	-		SAND, clayey (SC)- Very pale brown (1)	 10YR	
15					163.8_	55 — - -		SAND, clayey (SC) - Very pale brown (18/2) to brownish yellow (10YR 6/8), dan medium dense		
SS 16	X		8-10-12	8	158.8_	60-	7/7	SAND (SP) - Yellow (10YR 7/8), damp, medium dense	,	Water level depth at end of 12/14/2006 = Ground surface
SS 17	X	<b>A</b>	5-8-7	18	154.3_	65-		CLAY, sandy (SC)- Pale brown (10YR moist, very stiff, -HCL		
SS 18	X	<b>A</b>	7-13-10	18		70-		*CLAY (CL) - Light greenish grey, moi very stiff, contains shell hash, +HCL	st,	
SS 19	X	<b>A</b>	15-15-10	18	148.8_	- - 75 –		SAND, clayey (SC)- Pale yellow (2.5Y moist, medium dense, contains shell hash +HCL	8/2), h,	
SS 20	X	<b>A</b>	12-10-12	15	143.8_	80-		SAND (SP) - Light grey (10YR 7/2) moi medium dense, contains shell hash, +HC	 ist, CL	
SS 21	_		50/1"	1	138.8_	85-		SAND, clayey (SC)- Pale yellow (5Y 8/moist, very dense	/3),	
SS 22	*		50/2"	2	133.8_	- - - 90		*SHELL HASH, clayey with sand (GC yellow (5Y 8/2), moist, very dense	 C)- Pale	Top of Uttley at a depth of 87.0 feet
SS 23	X	<b>A</b>	5-6-8	18	128.8_	- - - 95		CLAY (CL) - Pale yellow (5Y 7/3), dam stiff, +HCL	 np,	Loss of circulation at a depth of 92.0 feet
SS 24	×		50/5"	18	122.3_ 121.8 <sup>-</sup>	-		CLAY (CL) - Dark greenish grey (GLEY 4/5GY), hard, +HCL Boring terminated at 98.92 feet	<u></u> <u> </u>	Top of Blue Bluff Marl at a depth of 98.5 feet
					SITE	V	ogtl/	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-3038</b>



GE	ΕΟΤ	ЕСН	NICAL LO		OJEC		20	1.00	OI Duciost	JOB NO.	06.0206	SHEET NO		HOLE NO.
	ED BY					DINATES	3 & 4	·C	OL Project	0141-0	06-0286 BEGUN	<b>1</b> OF	COMPLI	<b>B-3039</b> ETED
2011		<b>D.</b> A	Atkinson		<b>D</b>		N 114				3/8/200		3/12/2	
DRILL	EK	White-	-MACTEC		KILL	MAKE AND	ME-		HOLE DIAM	Inches	HAMMER SE	ERIAL NUME <b>219505</b>	SER	150.0
	ND EL.	DEPT	H/EL. GROUND WA	TER SIT	E:		,,,,,,,							
2	19.2	<b>▼</b> /							Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo:	ro, GA
SAMP. TYPE AND NO.	SAMPLE +	- ATT. LI	R CONTENT % MITS %	1st 6" -z 2nd 6" O 3rd 6" zz	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC  (* = field c laboratory t of sample b	ON AND Cl classification adju- testing data and/or or field geologist/o	sted based on	TION		LEVELS, CTER OF IG AND ATORY
SS	<u> </u>	<u>20 4</u>	0 60 80	2-4-9	13	219.2			SAND, with s	ilt (SP-SM	I)- Red (2.5Y	TR 4/8),	Top of E	Barnwell
SS	X	<b>A</b>		8-11-13	12	215.0			SAA except y				0.0 feet	a depth of
2 SS 3		<b>A</b>		9-4-10	13	215.9_	5-		SAND, clayey medium dense	(SC)- Rece, fine grain	d (10R 4/8), 1 ded, medium	moist, plasticity	Water le end of 3 casing	vel depth at /8/07 = Top of
SS	$\forall$	<b>A</b>		4-10-12	12		-		SAA				Water le	vel depth at ag of 3/9/07 =
SS 5		<b>A</b>		5-10-10	14				SAA except li	ght red (10	R 6/8)		Top of c	asing
SS		<b>A</b>		6-10-11	13	208.7_	10-		SAND with c	lav (SP-SC	 T)- Red (10R	5/8)		
6	Ä					206.2_			SAND, with c moist, medium nonplastic to l	n dense, fin ow plastici	e to medium ty	grained,		
SS 7	X	<b>A</b>		6-9-8	14		15-		SAND, with s moist, medium	ilt (SP-SM n dense, fin	l)- Red (10R e to medium	4/8), grained,		
,						202.2	13-		nonplastic	,		<i>3</i> ,		
SS 8	X	<b>A</b>		6-7-9	14	197.2	20-		CLAY (CL) - stiff, high plas	Pink (5YR	7/4), moist,	very		
SS 9		`		3-3-6	12	192.2_	25-	-	<b>SAND, with s</b> (5YR 6/6), we	ilt (SP-SM t, loose, fin	)- Reddish y ne grained	ellow		
SS 10				2-2-5	13	187.2	30-		SAND, clayey 6/8), wet, loos plasticity	(SC) - Broe, fine grain	ownish yellov ned, medium	w (10YR a to high		
SS 11				2-2-3	15	182.2	35-		CLAY, sandy medium stiff,	(CL)- Yel high plastic	llow (10YR ´	7/6), wet,		
SS 12	•			2-3-4	9		40-	-	<b>SAND, with s</b> (10YR 6/6), w	silt (SP-SM ret, loose, fi	)- Brownish ine grained, -	yellow -HCL		
SS 13				1-2-3	16	177.2_ 172.2	45 –		CLAY (CH)- medium stiff,	Yellow (10 high plastic	0YR 8/6), we city, -HCL	 et,		
SS				1-1-2	13	1 / 4.4_	- - -		SAND, with c (7.5YR 6/8), v	clay (SP-SC	C)- Reddish y	yellow		
		BY: A. TAY				SITE	V	ogtl	e Units 3 & 4 Co Final Log	OL Projec		,	HOLE NO	3039
KEVIE	WED B	SY: P. DEP	KEE				<del>322 o</del>	f <del>724</del>		5			D-	-JUJ7



GE	ОТ	ECHNICAL LO	<u> </u>	OJE( ogtl		3 & 4	C	JOB NO.  OL Project 6141-06-0		1EET NC		
SAMP. TYPE AND NO.	SAMPLE + O	N-VALUE (SPT) WATER CONTENT % ATT. LIMITS % FINES % 20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASS  (* = field classification adjusted base laboratory testing data and/or re-exan of sample by field geologist/engineer	ed on	N	NOTES ON: WATER LEVEI CHARACTER O DRILLING AND LABORATORY TESTING	OF D
14					167.2_	-		nonplastic, +HCL				
SS 15			1-2-2	8	162.2_	55—		<b>SAND (SP)</b> - Very pale brown wet, very loose, fine grained, -	ı (10YR 7/4 HCL	4),		
SS 16			1-1-WOH/6'	10		60-		SAND, with clay (SP-SC)- Y. 7/8), wet, very loose, fine grain	ellow (10Y ned, -HCL	R		
SS 17	∞ <b>▲</b>		1-1-3	18	157.2_	65-		CLAY, silty (CL-ML)- Yello soft, medium plasticity, +HCL	ow (5Y 8/6)	, wet,		
SS 18	•		3-4-6	8	152.2_	70-		SAND (SP) - Yellow (2.5Y 8/c fine grained, -HCL	6), wet, loc	ose,		
SS 19			2-2-2	10		75-		SAA except pale yellow (2.5Y	7 8/4), very	loose		
SS 20			WOH/6"-1-1	7	142.2_	80-		SILT, with sand (ML)- Olive 4/4), wet, very soft, fine graine	brown (2.	5Y +HCL		
SS 21	X	<b>A</b>	19-20-21	18	137.7_	- - 85 –		CLAY, silty (CL-ML)- Greer (GLEY1 5/10GY), wet, hard, l +HCL	nish gray high plastic	eity,	Top of Blue Blue Blue Blue Blue Blue Blue Blue	of
SS 22	X	<b>A</b>	8-18-22	22		90-		SAA except greenish gray (GI damp, low plasticity, contains	LEY1 10/10 shell fragn	0Y), nents	casing End logging by Atkinson. Begin logging b Woodham.	D.
SS 23	×		50/4"	3	127.2_	95-		CLAY (CL) - Greenish gray (damp, hard, low plasticity, corfragments, +HCL	GLEY1 5/5	 5GY),	Installed 3" stee casing to a dept 93.5 feet	el th of
SS 24	×	•	50/3"	3		100-		SAA				
SS 25	X		8-17-50/5"	16		105-		SAA				
					SITE	V 323 of		e Units 3 & 4 COL Project Final Log			HOLE NO. <b>B-303</b>	9



GE	EC	TECHNICAL LO	~	OJE(		3 & 4	C C	DL Project   JOB NO.   SHEET N   6141-06-0286   3 c	OF 3 HOLE NO B-303	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS CHARACTER O DRILLING AND LABORATORY TESTING	S,
SS 26	X	20 40 00 80	11-26-26	20		110-		SAA except greenish gray (GLEY1 6/10Y)		
SS 27	X		8-50/5"	10		115-		SAA		
SS 28	X	<b>A</b>	10-18-22	22		120		SAA		
SS 29	X	•	17-50/5"	10		125—		SAA except light greenish gray (GLEY1 7/10Y), no shell fragments		
SS 30	X	<b>A</b>	14-15-22	20	97 <b>2</b>	130-		SAA		
SS 31	X	<b>A</b>	4-10-31	18	87.2_	135-		*CLAY, silty, sandy, with cemented fragments (CL-ML)- Greenish grey, damp, hard, nonplastic to low plasticity, +HCL		
SS 32	X		10-10-50/5"	20		140-		SAA except low to medium plasticity, contains cemented layer at bottom		
SS 33	X	<b>A</b>	8-13-25	22	72.2_	145-		SAA except contains shell fragments		
SS 34	X	•	12-38-50/5"	15	69.3_	150-		SAND, with silt (SP-SM)- Very dark grayish green (GLEY1 3/5G), moist, hard, fine grained Boring terminated at 149.92 feet	Top of Still Bran Formation at a de of 147.0 feet	.ch epth
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-3039</b>	



GE	EC	OTECHNICAL LOG		ojec ogtl		3 & 4	CC	L Project	JOB NO. <b>6141-0</b>	6-0286	SHEET NO.		HOLE NO. -4001(DH)
LOGGI	ED E	BY			DINATES					BEGUN	1 0.	COMPL	
DRILLE	-D	B. Sharp		ו ווח	MAKE AND	N 114		9.5 E 6210		11/29/20		1/8/2	<b>007</b> Itotal depti
DKILLI	ΞK	Oglesby-MACTEC	ا ا	KILL		ME-			Inches	HAMMER SE	RIAL NUMBE 219907	ΞK	399.9
GROU	ND	EL. DEPTH/EL. GROUND WATER	SITI	E:		14117-	13	10	inches		217707		377.7
2	18.	.9 ♀ /						Vogtle Elect	ric Gene	rating Pla	ant - Way	nesbo	ro, GA
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIO  (* = field of laboratory to find sample because to the field of sample because the field of sample bec	ON AND CL classification adjust esting data and/or y field geologist/e	ted based on	ON		LEVELS, CTER OF IG AND ATORY
SS	$\frac{1}{M}$	20 40 60 80	-16-17	16	218.9 218.3-			GRAVEL, wi	th sand (G	<b>P)</b> - Brown (1	10YR	Top of F	ill at a depth
1 SS 2		□ ▲ 18-	-18-14	16	215.6	-		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	) •		/	of 0.0 fe Top of E Group a	et Barnwell t a depth of
SS 3	X	<b>A</b> 5	-5-5	15	213.4	5 <del>-</del>		7 5/6), moist, de SAA <b>SAND, with s</b> 7 (5YR 5/6), mo			, ,	0.6 feet Begin di 7/8" dril	rilling with a l
SS 4		<b>A</b> 6	-8-7	8		-		(SYR 5/6), mo grained SAND, clayey 5/6), moist, mo			1		
SS	M	▲ 🖽 + 5	-8-8	12		-		grained SAA	eaium aens	e, line to me	aium		
5 SS		8-	-9-10	12	208.4_	10-		SAND, silty (Smoist, medium	 <b>SM)</b> - Yello	wish red (5Y	R 5/6),		
6 SS		<b>_</b>	-9-10	11.5	205.9_	-							
7	X					15-		SAND, with s 5/6) and brown medium dense	nish yellow	(10YR 6/6),	moist,		
SS 8	X	6-	-8-11	15.5	201.9_	20-		SAND, clayey 6/6), moist, me grained	(SC)- Bro	wnish yellow e, fine to med	/ (10YR dium		
SS 9	X	▲ +□ <u>110</u> 3	-4-6	18	191.9_	25-		*SILT, with s and brownish fine grained, lo	and (MH)- yellow (10) ow plasticit	- Yellow (2.5 YR 6/8), moi y	Y 7/6) st, stiff,		
SS 10	X	<b>A</b> 3	-4-5	18	186.9_	30-		CLAY, sandy moist, medium low plasticity	(CL)- Yel n stiff, very	low (2.5Y 7/ fine to fine g	6), grained,		
SS 11	X	4	-5-3	10		35-		SAND, clayed light yellowish fine to coarse	y <b>(SC)</b> - Yel n brown (2.: grained, con	low (2.5Y 7/ 5Y 6/4), mointains shell fi	6) and st, loose, cagments		
SS 12	X	<b>A</b> 3	-3-4	18	176.9	40-		SAA except partial fine grained, n	ale yellow ( o shells	5Y 7/4), ver	y fine to		
SS 13	X	6-	-9-11	18		45 —		*SAND, silty moist, mediun	(SM)- Pale n dense, ver	yellow (5Y y fine to fine	7/4), grained		
SS	M	9-	-12-6	18		-		SAA except pa	ale yellow (	5Y 8/3), fine	to very		
PREPA	ARE	ED BY: A. TAYLOR			SITE	V	ogtl	Units 3 & 4 C	OL Project			HOLE NO	
REVIE	WEI	D BY: P. DEPREE						Final Log	<b>T</b>			B-40	01(DH



GE		PROJEC		3 & 4	C	JOB NO. SHEET NO. OL Project 6141-06-0286 2 0	
SAMP. TYPE AND NO.	L FINES %	Srd 6" ¬ H	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 60 80			_		fragments, +HCL	
SS 15	10-13-1	6 17.5		55-		SAA except fine to medium grained, no cementation	
SS 16	15-16-2	22 18	156.9	60-		SAA except pale yellow (5Y 8/2), dense, fine to very coarse grained	
SS 17	8-9-34	18	151.9	65—		SILT, sandy (ML)- Pale yellow (2.5Y 8/3 and 8/2), moist, hard, fine to very coarse grained, contains cemented shell fragments, +HCL	
SS 18	19-16-1	.5 16		70-		SAND, silty (SM)- Pale yellow (5Y 8/4), moist, dense, fine to medium grained, contains shell fragments and cementation, +HCL	
SS 19	42-26-3	35 18	141.9_	75		SAA except very dense, less shell fragments	
SS 20	27-32-3	39 17	136.9_	80-		SAND (SP) - Pale yellow (5Y 8/2), moist, very dense, medium grained, contains trace shell fragments, +HCL	Water level depth at end of 11/29/06 = Ground surface
SS 21	39-13-1	8 17	131.9_	85-		SAND, silty (SM)- Pale yellow (2.5Y 7/4), moist, dense, medium to coarse grained, contains shell fragments and cementation, +HCL	Changed to a 9 7/8" drill bit Water level depth at beginning of 11/30/06 = 39.0 feet Water level depth at
SS 22	7-10-1	5 18	129.2_	90-		SILT, sandy (ML)- Light yellowish brown (2.5Y 6/3) and brownish yellow (10YR 5/8), moist, very stiff, low plasticity, very fine to fine grained SAND	Top of Blue Bluff
SS 23	○ + - ▲ □ 101 17-26-4	17 18	121.9	95 —		*SILT, with sand (MH)- Dark greenish gray (10Y 4/1), moist, very stiff, low plasticity, +HCL SAA except hard, contains cemented zones	Marl at a depth of 89.7 feet Water level depth at end of 12/1/06 = Ground surface Water level depth at
UD 1		21	121.7_	100-		*SILT, sandy (MH)- Dark greenish gray (GLEY2 4/10G), damp, +HCL Pocket Penetrometer: >4.5 TSF	beginning of 12/4/06 = 63.0 feet Reamed hole with 9 7/8" cone roller bit Installed 6" steel casing to a depth of 97.5 feet End logging by B.
SS 24	50/1"	1		105—		SAA except hard	Sharp. Begin logging by A. Taylor.  End drilling by Oglesby-MACTEC.
			SITE	V:		e Units 3 & 4 COL Project Final Log	Begin drilling by HOLE NO. B-4001(DH)



	<u> </u>		СН	NIC	AL	LO	<u> </u>	oje( ogtl		3 & 4	4 C(	OL Project 6	141-06-0286	SHEET NO		HOLE NO. <b>B-4001(DH)</b>
SAMP. TYPE AND NO.	SAMPLE	○ W	ATER TT. LII NES <sup>(</sup>		TENT	%	1st 6" - <del>z</del> 2nd 6" <u>C</u> 3rd 6" <u>Z</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field classific	ND CLASSIFICATI ation adjusted based on data and/or re-examination geologist/engineer)	ON	WATE CHAR DRILL	ES ON: ER LEVELS, PACTER OF LING AND RATORY ING
SS 25	X			-+		:	14-50/5.5"	18	106.9_	110-	-       -       -	SAA			with a hamm #2195	n-MACTEC CME-55, er serial 05. level depth at ning of 12/11/06
UD 2								0	101.9	115-	- - -	NO RECOVERY			Install a dept Pitche Pitche	ning of 12/11/06 feet ed 6" casing to h of 97.5 feet r
UD 3 UD 4		0		 _		+		7.5 18.5	96.9_	120-		*SAND, silty (SM (GLEY2 4/10G), d Pocket Penetromet SAA Pocket Penetromet	)- Dark greenish gramp, +HCL er: >4.5 TSF er: >4.5 TSF	ay	Pitche Water end of	r level depth at 12/11/06 = feet
SS 26	X					4	13-20-50/4"	18		125-			irk greenish gray (G	LEY2	Water	level depth at ning of 12/12/06 feet
SS 27	X		+-	+			20-50/5"	18	86.9	130-		*SAA except conta	ains cemented fragn	nents		
UD 5		0	+-	+				15	81.9	135-		*CLAY (CL) - Da 4/10G), damp, +HO Pocket Penetromete	rk greenish gray (G CL er: >4.5 TSF	LEY2	Pitche	r
SS 28	×		<del>+</del> +				50/3"	5	76.9	140-	- - -	*SILT, with sand (GLEY1 6/10Y), d	(ML)- Greenish gra amp, hard, +HCL	ay	-	
SS 29	X		+0	▲ -+			15-20-22	22	/6.9_	145-		*CLAY, with sand (GLEY1 6/10Y), d	d (CH)- Greenish g amp, hard, +HCL	 ray		
SS 30	X				<b>A</b>		21-31-32	24	66.0	150-		SAA			Water end of	level depth at 12/12/06 =
SS 31	X		<del> </del>	<b>k</b> +			15-19-21	24	66.9_	155 –		*CLAY, with sand (GLEY2 4/10G), d	d (CL)- Greenish gamp, hard, +HCL	gray	Water	level depth at ning of 12/13/06 3 feet
UD 6			0					14		160-		SAA Pocket Penetromet	er: >4.5 TSF		Pitche	r
SS	æ					4	50/2"		SITE	• • •	ogtl	SAA e Units 3 & 4 COL I Final Log	Project		HOLE N	NO. 1001(DH)



GEOTECHNICAL LOG	PROJE Vog		3 & 4 (	JOB NO.   SHEET NO.   OL Project   6141-06-0286   4 OF	
A N-VALUE (SPT)  O WATER CONTENT %  HATT. LIMITS %  FINES %  20 40 60 80	2nd 6" S 3rd 6" T BECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
32		52.3_	165-		
SS 33 X	8-14-25 24		170-	*SAND, silty (SM)- Very dark greenish gray (GLEY1 3/10Y), damp, dense, fine to medium grained, -HCL	Top of Still Branch Formation at a depth of 166.6 feet
	12		175—	SAA Pocket Penetrometer: 0.5 TSF	Pitcher
SS 34 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	8-21-37 13		185-	SAA except very dense	
UD 8	7		200-	SAA Pocket Penetrometer: 1.75 TSF	Pitcher
SS 35 \( \bigsim \)	8-17-20 24	9.9_	205-	SAA SILT (ML) - Very dark greenish gray (GLEY1 3/5G), damp, hard, -HCL	Water level depth at end of 12/13/06 = 25.8 feet
SS × 33	32-50/3" 11		215-	SAA SAND (SP) - Dark greenish gray (GLEY2 4/5BG), very dense, medium to coarse grained,	Water level depth at beginning of 12/14/06 = 77.0 feet  Top of Congaree Formation at a depth of 219.0 feet
	,	SITE	Vog	tle Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4001(DH)</b>



GE	EC	OTECHNICAL LOG	•	OJE(		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 5 or	
SAMP. TYPE AND NO.	SAMPLE		1st 6" 2nd 6"0 3rd 6" 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
					-6.1_	  225—		subangular, -HCL	
SS 37	X	<b>A</b>	8-11-19	24	-10.6_	230-		SILT, with sand (ML)- Dark greenish gray (GLEY1 4/5G), damp, very stiff, -HCL SILT (ML)- White (2.5Y 8/1), damp, very stiff, -HCL	
UD 9		Q++ □		10	-16.1_	235-		SILT, sandy (ML)- Light greenish gray (GLEY2 7/10BG), damp, -HCL Pocket Penetrometer: 1.75 TSF	Pitcher
UD 10		O		6	-26.1_	245— 		SAND (SP) - Light gray (2.5Y 7/1), damp, +HCL Pocket Penetrometer: 1.5 TSF	Pitcher
					-36.1_	255-			
UD 11 SS	V		WOH/18"	0		260-		NO RECOVERY NO RECOVERY	Pitcher
38 SS 39	$\Diamond$		47-50/5"	9	-43.1_	265-		SAND, with silty clay (SP-SC)- White (2.5Y 8/1), damp, very dense, medium to coarse grained, -HCL	Water level depth at beginning of 12/15/06 = 78.0 feet
SS 40	$\boxtimes$		47-50/5"	8		270-		SAA	Water level depth at beginning of 12/18/06 = 78.5 feet
						275-			
					SITE	329 of		e Units 3 & 4 COL Project Final Log	B-4001(DH)



GEO	OTECHNICAL LO	~	OJEC ogtl		3 & 4	COL Projec	JOB NO. 6141-06-0286	SHEET NO	
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>7</del> 2nd 6" O 3rd 6" <del>-</del> 2	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	∢   (*=	PTION AND CLASSIFICAT field classification adjusted based on atory testing data and/or re-examination mple by field geologist/engineer)	ION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 41		50/5.25"	2	-66.1_	280	SAA			Water level depth at end of 12/18/06 = 44.0 feet End logging by A. Taylor. Begin logging by M. Harvey. Water level depth at beginning of 12/19/06 = 84.0 feet
SS ≥ 42		50/5"	9		290	SAND, sil wet, very	<b>ty (SM)</b> - Dark gray (GLEY dense, fine grained, +HCL	71 4/N),	beginning of 12/19/06 = 84.0 feet
UD 12	O		8.5	-84.1	300	SAA exce grained	pt gray (2.5Y 6/1), wet, med	dium	Pitcher
UD 13	O++ □		12		305—	CLAY (C 7/1/10Y), Pocket Per	<b>L)</b> - Light greenish gray (Gl moist, -HCL netrometer: >4.5 TSF	LEY1	Pitcher  Water level depth at end of 12/19/06 = Ground surface
SS 43	•	37-42-47	18	-96.1_	315	CLAY (C (2.5Y 5.5/ 8/1/5PB),	<b>H</b> )- Light yellowish olive b 4) and light bluish gray (GL moist, hard, high plasticity	orown EY2	Water level depth at beginning of 12/20/06 = 79.5 feet  Water level depth at end of 12/20/06 = Ground surface End logging by M.
SS 44		17-20-31	28	-106.1_ -110.6_	325	SAND, cla very dense CLAY (C dense, -HO	ayey (SC)- White (2.5Y 8/1), coarse grained, -HCL H)- Olive (5Y 4/3), moist,	), moist,	Harvey. Begin logging by A. Taylor. Water level depth at beginning of 1/2/07 = 78.0 feet
				-116.1_ SITE	335- Vo	Final I	4 COL Project		HOLE NO. <b>B-4001(DH)</b>



GEOTECHNICAL LO	<b>\</b> C	OJE(		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 7 OF	
MAN-VALUE (SPT)  O WATER CONTENT %  HATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -7 2nd 6" O 3rd 6" 14	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS X 45	17-28-42	22		340-		CLAY, silty (CL-ML)- Mottled reddish brown (2.5YR 4/4), yellowish brown (10YR 5/6), and white (2.5Y 8/1), damp, hard, -HCL	Top of Snapp Formation at a depth of 335.0 feet  Water level depth at end of 1/2/07 = 42.0 feet
			-126.1_	345			Water level depth at beginning of 1/3/07 = 58.0 feet
UD 14		12		350-		CLAY, sandy (CH)- Light gray (7.5YR 7/1), damp, -HCL Pocket Penetrometer: >4.5 TSF	Pitcher
cc ×	50/5"	22	-136.1_	355— - - -		CAND with the (CD CC) White (2.5V 9/1)	
SS × 46	30/3	22		360-		SAND, with clay (SP-SC)- White (2.5Y 8/1), moist, very dense, medium to very coarse grained, subangular, -HCL	
ss 🌣	22-50/5"	11	-146.1_	365-		CLAY (CH) - Light bluish gray (GLEY2	Water level depth at beginning of 1/4/07 = 62.5 feet
47			156.1	370-		CLAY (CH) - Light bluish gray (GLEY2 7/10B), weak red (10R 4/2), and yellowish brown (10YR 5/8), damp, hard, -HCL	
ss 🗵	19-50/5.5"	10	-156.1_	375— - - -		SAND, with clay (SP-SC)- White (7.5YR 8/1), damp, very dense, medium grained, -HCL	
48				380-		8/1), damp, very dense, medium grained, -HCL	
SS × 49	50/5.25"			385-		SAA except medium to coarse grained	Water level depth at beginning of 1/5/07 = 71.0 feet  Water level depth at end of 1/5/07 = 47.5
			SITE	V 331 of	_	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4001(DH)</b>



A NVALUE (SPT)		OTECHNICAL I O	PR	OJEC	T				JOB NO.	SHEET NO	).	HOLE NO.
20 40 60 80  19-31-30/3 10 -181.0  SS 30 8 80  19-31-30/3 10 -181.0  SS 30 8 80  19-31-30/3 10 -181.0  SITE Voetle Units 3 & 4 COL Project HOLE NO.	GE(	JIECHNICAL LO	V	ogtle	Units	3 & 4	CC	DL Project	6141-06-0286	1	I	B-4001(DH)
SS S S S S S S S S S S S S S S S S S S	SAMP. TYPE AND NO. SAMPLE	<ul><li>○ WATER CONTENT %</li><li>+ ATT. LIMITS %</li><li>□ FINES %</li></ul>	1st 6" - <del>2</del> 2nd 6" <u>0</u> 3rd 6" <u>4</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC  (* = field c laboratory to of sample b	ON AND CLASSIFICAT lassification adjusted based on esting data and/or re-examination y field geologist/engineer)	ION	WATE CHAR DRILL LABOI TESTI	R LEVELS, ACTER OF ING AND RATORY
		20 40 60 80	19-31-50/5"					SAA			feet	NG
					SITE	***		. Unite- 2.0.4.0	OI Dugind		HOLEN	0
FINALLAG   K-40011111H					J.12	V	ugti	Final Log	on rroject O			 001(DH)

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COMPRETED   COMP	GE	ΞC	TECHNIC			DJEC		201	CC	DI Duciost	JOB NO.	06.0206	SHEET NO.		HOLE NO.
DRILLE					7 (			3 & 4	C	DL Project	6141-0		I OF		
CORUND ELL   OFFINEL GROUND WATER   STEE   SAPE			B. Shar	p											
Vogite Electric Generating Plant - Waynesboro, GA	DRILLI	ER	Oslaska MA	CTEC	DF	RILL								ER	
A N-VALUE (SPT)	GROU	ND	EL. DEPTH/EL. G		R SITE	:		IVIE-/	3	0.1	ncnes		219907		250.0
20	2	19.	.1 💆 /							Vogtle Electi	ric Gen	erating Pl	ant - Wa	ynesbo	ro, GA
20	SAMP. TYPE AND NO.	SAMPLE	O WATER CONT + ATT. LIMITS %	ΓENT %		RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field cl laboratory te	assification adjusting data and/o	sted based on r re-examination	ION	WATER CHARA DRILLIN LABOR	LEVELS, CTER OF NG AND ATORY
SAA except yellowish red (5 NR 5/6)   SAA except yellowish red (5 NR 5/6)   SAA except medium dense, very fine to fine   SAAA except strong brown (7.5 YR 5/8), damp to misst, loose   SAAA except medium dense   SAAA except contains pale yellow (10 YR 6/8), moist, medium dense, fine to medium managanese staining   SAAA except contains pale yellow (2.5 Y 8/4)   SAAA except contains pale yellow (2.5 Y 8/4)   SAAA except contains pale yellow (2.5 Y 7/6), moist, medium dense, fine to coarse   SAAAA except contains pale yellow (2.5 Y 7/6), moist, medium dense, except contains pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), moist, medium dense, except pale yellow (2.5 Y 7/6), mois		$\coprod$			1.16.16	12						- (10)	(75.4/2)		
SAA except medium dense   SAAD, clayer (SC) = Moritad red (2.5 VR   4/8), wellow (2.5 V 5/8), and strong brown (7.5 VR 5/8), moist, medium dense, fine grained   SAA except dense   SAAD, clayer (SC) = Moritad red (2.5 VR   4/8), wellow (2.5 V 5/8), and strong brown (7.5 VR 5/8), moist, medium dense, fine grained   SAA except dense   SAAD, clayer (SC) = Moritad red (2.5 VR   4/8), wellow (2.5 V 5/8), and strong brown (7.5 VR 5/8), moist, medium dense, fine to medium grained, contains CLAY lenses and trace black manganese staining   SAA except contains pale yellow (2.5 VR 4/4)   CLAY lenses 2" thick   SAAD, clayer (SC) = Brownish yellow (10 VR 6/8), moist, medium dense, fine to coarse grained, contains CLAY lenses and black manganese staining   SAAD, clayer (SC) = Brownish yellow (10 VR 6/8), moist, medium dense, fine to coarse grained, contains CLAY lenses and black manganese staining   SAAD, clayer (SC) = Brownish yellow (10 VR 6/8), moist, medium dense, fine to coarse grained, contains trace black manganese staining   SAAD, clayer (SC) = Brownish yellow (10 VR 6/8), moist, medium string to stift, very fine to fine grained staining   SIII, very fine to fine grained staining   SAAD, clayer (SC) = Brownish yellow (10 VR 6/8), moist, medium string to stift, very fine to fine grained staining   SAAD, clayer (SC) = Brownish yellow (10 VR 6/8), moist, medium string to stift, very fine to fine grained staining   SAAD, clayer (SC) = Brownish yellow (10 VR 6/8), moist, medium string to stift, very fine to fine grained staining   SAAD, clayer (SC) = Brownish yellow (10 VR 6/8), moist, medium string to stift, very fine to fine grained staining   SAAD, clayer (SC) = Brownish yellow (10 VR 6/8), moist, medium dense, fine to coarse grained, contains trace black manganese staining   SAAD, clayer (SC) = Brownish yellow (10 VR 6/8), moist, medium dense, fine to coarse grained, contains trace black manganese staining   SAAD, clayer (SC) = Brownish yellow (10 VR 6/8), moist, medium dense, fine to coarse grained, contains trace b	1 SS 2 SS 3 SS 4		A A	1	6-20-17 10-7-8 3-3-4	15 13 11.5	218.3_	5—	<b>XX</b>	*SAND, with services (SYR 4/6) and grained SAA except yes SAA except magrained SAA except structures (SAA) except structures (	silt (SP-Sired (10R a ellowish re	M)- Yellowis 4/6), damp, d d (5YR 5/6) se, very fine	h red ense, fine to fine	Top of I of 0.0 fe Top of I Group a 0.8 feet	Fill at a depth et Barnwell t a depth of
SAND, clavey (SC) - Mortled red (2.5 YR), and strong brown (7.5 YR 5/8), moist, medium dense, fine grained SAA (8), yellow (2.5 Y/8), and strong brown (7.5 YR 5/8), moist, medium dense, fine grained SAA (8), yellow (2.5 Y/8), and strong brown (7.5 YR 5/8), moist, medium dense, fine grained SAA (8), yellow (2.5 Y/8), and strong brown (7.5 YR 5/8), moist, medium dense, fine grained SAA (8), yellow (2.5 Y/8), and strong brown (7.5 YR 5/8), moist, medium dense, fine to medium grained, contains CLAY lenses and trace black manganese staining	5	X			3-3-3	10.5		10-		SAA					
SS   S	6 SS	X	<b>▲</b> □				207.1_	- -		SAND, clayey 4/8), yellow (2 (7.5YR 5/8), m	edium den (SC) - Mo .5Y 5/8), a loist, medi	se	YR own ne grained		
SS	SS	X	<b>A</b>	1	8-10-23	15.5	197.1_	- - -		SAA except de	ense				
SS		X		1	0-12-13	13		25 —		grained, contai	ns CLAY	vnish yellow se, fine to me lenses and tra	(10YR dium ace black		
SS A except pale yellow (2.5Y 7/4), to light yellowish brown (2.5Y 6/4), stiff, fine to medium grained, contains CLAY lenses and black manganese staining  SILT, sandy (ML)- Yellow (2.5Y 7/6), moist, medium stiff to stiff, very fine to fine grained SAND, contains trace black manganese staining  SAA except pale yellow (2.5Y 7/4) to light yellowish brown (2.5Y 6/4), stiff, fine to medium grained, contains shell fragments, -HCL  SAA except pale yellow (2.5Y 7/4) and pink (7.5 YR 7/4), fine grained SAND  PREPARED BY: A. TAYLOR  SITE Vogtle Units 3 & 4 COL Project HOLE NO.		X	<b>A</b>		6-11-15	18	187.1_	30-		SAA except co CLAY lenses 2	ntains pal 2" thick — — — —	e yellow (2.5	Y 8/4)		
SS A except pale yellow (2.5Y 7/4) to light yellowish brown (2.5Y 6/4), stiff, fine to medium grained, contains shell fragments, -HCL  SS A except pale yellow (2.5Y 7/4) and pink (7.5 YR 7/4), fine grained SAND  PREPARED BY: A. TAYLOR  SITE Vogtle Units 3 & 4 COL Project  HOLE NO.		X	<b>▲</b> □		5-7-9	16.5	182.1_	35—		grained, contai	ns CLA Y	ownish yellow se, fine to coa lenses and bl	w (10YR urse ack		
yellowish brown (2.5Y 6/4), stiff, fine to medium grained, contains shell fragments,  -HCL  SAA except pale yellow (2.5Y 7/4) and pink (7.5 YR 7/4), fine grained SAND  PREPARED BY: A. TAYLOR  SITE Vogtle Units 3 & 4 COL Project  HOLE NO.		X	<b>A</b>		3-4-4	18		40-		SAND, contain	ML)- Yel o stiff, vern ns trace bla	low (2.5Y 7/6) fine to fine ack manganes	6), moist, grained se		
PREPARED BY: A. TAYLOR SITE Vogtle Units 3 & 4 COL Project HOLE NO.		X	<b>A</b>		3-5-6	18		45 —		SAA except pa yellowish brow medium graine -HCL	le yellow yn (2.5Y 6 d, contain	(2.5Y 7/4) to (4), stiff, fine s shell fragm	light to ents,		
PREPARED BY: A. TAYLOR SITE Vogtle Units 3 & 4 COL Project HOLE NO.	SS	M	<b>A</b>		3-5-6	18		-		SAA except pa	le yellow	(2.5Y 7/4) ar	nd pink		
$\mathbf{F}_{i}$ and $\mathbf{F}_{i}$	PREPA	V V ARE	D BY: A. TAYLOR	<u>;</u>			SITE	V	ogtl	e Units 3 & 4 CO	DL Projec	u SAND t			I
REVIEWED BY: P. DEPREE Final Log B-4002(DH)	REVIE	WEI	D BY: P. DEPREE					333 of	<del>794</del>	Final Log	j )			<b>B-40</b>	02(DH)



GE	OTECHNICAL LO	C	OJEC <b>ogtl</b> e		3 & 4	COL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO	
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" -O 3rd 6" -I	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT		DN AND CLASSIFICAT classification adjusted based on testing data and/or re-examination by field geologist/engineer)	ION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14				167.1_	-				Water level depth at end of 1/2/07 = 6.0 feet
SS 15	<b>A</b>	5-5-7	18		55—	*SAND, with (2.5Y 7/4), mo contains trace staining, -HCI	silt (SP-SM)- Pale yelloist, medium dense, fine shell fragments and man	ow grained, nganese	Water level depth at beginning of 1/3/07 = 25.0 feet
SS 16		6-6-7	14.5		60-	SAA except fi or staining	ne to medium grained, r	no shells	
SS 17	<b>A</b>	8-12-13	14	152.1	65	SAA			
SS 18	<b>A</b>	WOH/6"-4-:	5 18	152.1_	70-	SILT, sandy (light olive graplasticity, fine contains trace	(ML)- Pale yellow (5Y) y (5Y 6/2), moist, stiff, to medium grained SAI black manganese stainin	7/4) to low ND, 1g, -HCL	
SS 19		6-9-15	14.5	147.1_	75-	SAND, with s 7/3), wet, med grained, -HCL	silt (SP-SM)- Pale yellov lium dense, fine to medi	w (2.5Y um	
SS 20	<b>A</b>	7-12-12	10.5	142.1_	80-	SAND (SP) - medium dense contains shell	Pale yellow (2.5Y 7/5), y, fine to medium grained fragments, -HCL	 wet, d,	
SS 21	X	14-1/12"	9.5	137.1 <sub>_</sub>	85 —	SAND, silty (i very loose, ve cemented lime	SM)- Pale olive (5Y 6/3 ry fine to fine grained, c estone fragments, -HCL	b), wet, ontains	Top of Utley Limestone at a depth of 82.0 feet Loss of circulation at a depth of 85.0 feet
SS 22	<b>A</b>	5-8-15	18	_	90-	SILT (ML) - 1 very stiff, low brown (10YR fragments, +H	Pale olive (5Y 6/4), moi plasticity, contains yelle 5/8) SAND lenses and s ICL	st to wet, owish some shell	
				127.1_	95 —				Top of Blue Bluff Marl at a depth of 92.0 feet Water level depth at end of 1/11/07 = Ground surface Installed 6" steel
UD 1	0		22		100-	*SILT, with s moist to wet, w fragments, +H Pocket Penetro	sand (MH)- Pale olive ( very stiff, contains shell ICL ometer: >4.5 TSF	5Y 6/4),	casing to a depth of 97.0 feet Pitcher
SS 23	♣	14-19-24	18		105-	SAA except d damp, hard, co	ark greenish gray (10Y and and shell fragments	4/1),	Water level depth at beginning of 1/15/07 = 20.0 feet
		· 		SITE	334 of 7	gtle Units 3 & 4 C Final Log			HOLE NO. <b>B-4002(DH)</b>



GE	OTECHNICAL LO							SHEET NO	NO. HOLE NO. B-4002(DH)	
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" <u>S</u> 3rd 6" <u>Z</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field cla	N AND CLASSIFICAT assification adjusted based on sting data and/or re-examination field geologist/engineer)	ION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 24	-	50/0.5"	0.5		110-	SA	AA except co	ntains abundant cemen	tation	
SS 25		17-50/2"	8	102.1_	115-	SÆ	AA			Water level depth at end of 1/15/07 = 10.0
SS 7 26	+4	10-19-20	18	102.1_	120-	*(	CLAY (CH)- ard, contains s	Pale olive (5Y 6/4), dashell fragments, +HCL	amp,	Water level depth at beginning of 1/16/07 = 12.0 feet
UD 2			15		125	S.A.	AA ocket Penetro	meter: >4.75 TSF		Pitcher
SS 27		50/2"	2		130-	SA	AA			
SS \\ 28 \\ \\ 28 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	<b>A</b>	10-37-33	18		135—	SA	AA except no	cementation		
SS 29	z .	50/5.5"	5.5		140-	S.A. ce	AA except no ementation	shell fragments, abund	lant	
SS 30 2	+0	19-19-26	18	77.1_	145	*( 5/ +I	C <b>LAY, sandy</b> 1), damp, hai HCL	y (CL)- Greenish gray d, contains shell fragm	(10Y ents,	Water level depth at end of 1/16/07 = 3.0
SS 31 2	<b>A</b>	24-18-23	18		150-	SA	AA			feet  Water level depth at beginning of 1/17/07 = 14.0 feet
SS 32 2	<b>A</b>	12-15-36	18		155—	SA	AA except so	me cementation		
SS 33 2	<b>A</b>	14-19-24	18	57.4_	160-	SA	AA except grontains shell f	eenish gray (GLEY1 6/ ragments and cementat	10Y), ion	
SS		37-50/5"	11	SITE	Vo	SA gtle Un	AND, with sinits 3 & 4 CO	lt (SP-SM)- Dark green	nish	Top of Still Branch Formation at a depth of 161.7 feet HOLE NO.
					335 of 7	F	inal Log			B-4002(DH)



GE	OTECHNICAL LO	~	ojec ogtl		3 & 4 C	JOB NO.   SHEET   OL Project   6141-06-0286   4	NO. HOLE NO. B-4002(DH)
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)  gray (GLEVI 4/10GY), wet very dense fine	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
UD 3	O		14		170-	gray (GLEY1 4/10GY), wet, very dense, fine grained, +HCL  SAA except very dark greenish gray (GLEY1 3/10Y), medium dense Pocket Penetrometer: 0.35 TSF	Pitcher
SS 35		5-13-28	18		180-	SAA except dense, contains brownish yellow (10YR 6/6) CLAY lense, -HCL	
SS 36		22-50/5"	11		190-	SAA except very dense	Water level depth at beginning of 1/18/07 = 48.0 feet
SS 37		WOH/6"-7-3	2 18	10.6_	200-	SAA except dark gray (GLEY1 4/N), dense, very fine grained	Water level depth at end of 1/18/07 = 19.0 feet  Water level depth at
SS 38	<b>A</b>	7-13-19	18	0.1	210-	CLAY (CL) - Dark greenish gray (GLEY1 4/10GY), moist, hard, low plasticity, contains SAND lenses up to 0.5" thick, -HCL	Water level depth at beginning of 1/19/07 = 42.0 feet
				0.1_	220-	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4002(DH)</b>



GE		OTECHNICAL LOG	•	OJEC ogtl	NO. HOLE NO. B-4002(DH						
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -4 2nd 6" 00 3rd 6" 14	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING		
SS 39	X	•	15-18-35	18	-5.7_	225-		SAND, with clay (SP-SC)- Dark greenish gray (GLEY1 4/5GY), wet, very dense, medium grained, contains CLAY lenses, -HCL SAND (SP)- Dark greenish gray (GLEY1 4/5GY), wet, very dense, medium grained, contains CLAY lenses, -HCL	Top of Congaree Formation at a depth of 224.8 feet		
UD 4		0		13	-12.9_	230-		CLAY (CL) - Red (10R 4/6) and pinkish white (10R 8/2), moist, stiff to very stiff, low to medium plasticity, -HCL	Pitcher  Water level depth at end of 1/19/07 = 15.0 feet		
					-20.9_	240-			Water level depth at beginning of 1/23/07 = 78.0 feet Changed to 3 7/8" drill bit		
SS 40	X		13-19-22	18	-26.9_	245-		SILT, with sand (ML)- Light gray (GLEY1 7/N), moist, hard, nonplastic to low plasticity, very fine grained SAND, micaceous, -HCL	Water level depth at end of 1/23/07 = 20.0 feet		
SS 41	X	<b>A</b>	27-45-50	17	-30.9_	250-		SAND, silty (SM)- Light gray (10YR 7/1), wet, very dense, fine to medium grained, micaceous Boring terminated at 250 feet	Water level depth at beginning of 1/24/07 = 33.0 feet		
					SITE	Vogtle Units 3 & 4 COL Project Final Log  B-4002(D					



	OTECHNICAL LO	G v		e Units	3 & 4	CO	L Project	JOB NO. <b>6141-</b>	06-0286	SHEET NO	5 B	HOLE NO. -4003(DH)
ORILLER	B. Sharp			DINATES  MAKE AND	N 114		9.9 E 6209 HOLE DIAM		BEGUN 11/16/20 HAMMER SE	06 ERIAL NUMB	12/12/ ER	
	Oglesby-MACTEC			C	ME-7	75	6 I	nches		219907		249.8
GROUND <b>219</b>	$\nabla$ /	ER SITE	=:			,	Vogtle Elect	ric Gen	erating Pl	ant - Wa	vnesho	ro. GA
	<u> </u>						· ogere ziree.		<u> </u>	1120 110	<i>y</i> 110550	10, 011
SAMP. TYPE AND NO. SAMPLE	☐ FINES %	1st 6" - <del>2</del> 2nd 6" <u>0</u> 3rd 6" <u>1</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	laboratory to	assification adju	sted based on or re-examination	TION		LEVELS, CTER OF IG AND ATORY
SS X	20 40 60 80	15-13-15	16	219.0 218.4-			GRAVEL, wit	tḥ sanḍ (C	GP)- Brown (	2.5YR /	Top of F	fill at a depth
1 SS 2 SS 3	<b>A</b>	17-16-17 12-4-6	14	213.5_	- - 5—		A/2), damp, me SAND, with si damp to moist, grained SAA except ye SAA except m	ilt (SP-SM) medium o ellowish re edium der	I)- Red (2.5Y dense, very fi ed (5YR 5/6), ase, contains	dense CLAY	of 0.0 fe Top of E Group at 0.6 feet Begin dr 7/8" dril	et Barnwell t a depth of Filling with a 3 l bit
$\begin{array}{c c} SS & \times \\ 4 & \times \\ SS & \times \end{array}$		6-13-16 9-11-15	17		- -		SAND, clayey 5/6) and reddis medium dense SAA	(SC)-Yesh yellow ( , fine grain	llowish red (7.5YR 6/8), ned	5YR moist,		
5		, 11 15			10-		SAA					
$\underset{6}{\text{SS}}$	^			206.0_	-		SAA except ye yellow (7.5YR (7.5YR 8/1), fi	<u>ne to med</u>	<u>ıum grained</u>			
SS 7		5-20-19	16	205.2_	15-		CLAY, with s. (7.5YR 5/8), mplasticity, very SAND (SP) - F. yellowish red (	noist, very fine grain Reddish ye 5YR 5/8)	stiff, medium led SAND llow (7.5YR	n to high $\frac{1}{6/8}$		
SS 8	<b>A</b>	8-14-21	12		20-		medium graine SAND, silty (S pinkish white ( medium graine manganese stai	SM)- Yello 5YR 8/2), ed, contain	owish red (5\), moist, dense s trace black	YR) and e, fine to		
ss ×		6-8-10	16	192.0_	25-		SAA except sti	rong brow	n (7.5YR 5/8	s), medium		
SS 10	▲ 0□	3-3-4	16	187.0	30-		SAND, clayey 6/6), moist, loc	(SC) - Brose, fine to	ownish yello medium gra	w (10YR ined		
SS 11		4-5-5	18		35—		CLAY, sandy moist, stiff, fin	(CL)- Ye e grained	llow (2.5Y 7 SAND	/6),		
SS 12	<b>^</b>	4-4-4	18	155.0	40-		SAA					
SS X		1-2-4	18	177.0_	- - 45 — -		SAND, clayey 5/8), moist, loc	(SC)- Strose, fine gr	ong brown (7	7.5YR		
ss X	<b>A</b> 🗓	3-4-4	18		-		SAA except ye					
	ED BY: A. TAYLOR ED BY: P. DEPREE			SITE	V	ogtle	Units 3 & 4 CO Final Log		et		HOLE NO $\mathbf{R}$ -4 $0$	03(DH)
				<u> </u>	338 of	724	I IIIII LIUE	•			<u> </u>	~~(D11)



GE	OTECHNICAL LOG	<u>•</u>	ojec ogtle		3 & 4	CC	DL Project   JOB NO.   6141-06-0286	SHEET NO	
SAMP. TYPE AND NO.		1st 0° 7- 2nd 6" O 3rd 6" ユ	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATI  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	ON	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 15	<b>A</b>	5-9-11	18		55—		SAA except medium dense		
SS 16	<b>A</b>	6-10-11	18	157.3_	60		SAA except yellow (10YR 7/6) and pa (2.5Y 7/4)	le yellow	Water level depth at end of 11/16/06 =
SS 17	•	4-5-5	16.5	152.0	65—		SAND, silty (SM)- Pale yellow (2.5Y moist, medium dense, medium grained contains some cementation	7/3),	Water level depth at beginning of 11/17/06 = 32.7 feet
SS 18	<b>A</b>	5-5-6	16.5	147.0	70-		SAND, clayey (SC)- Pale yellow (2.5' wet, medium dense, fine to coarse grai contains some shell fragments	Y 7/3), ned,	
SS 19	<b>A</b>	12-15-20	15.5	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	75		SAND, silty (SM)- Pale yellow (2.5Y wet, dense, fine to coarse grained	7/3),	
SS 20	₹ 🛕	12-18-19	18		80-		SAA except very pale brown (10YR 7/ fine to fine grained	/4), very	
SS 21	-	29-50/1"	7	132.0	85		SAA except pale yellow (2.5Y 7/4), ve fine to very coarse grained, contains ce shell fragments	ery dense, emented	
SS 22	<b>A</b>	8-8-8	18	127.0	90-		CLAY, silty with sand (CL-ML)- Gray (10Y 6/1), moist, very stiff, very fine grained SAND, contains brownish SAND lenses	eenish fine to yellow	
SS 23		23-21-50/4"	16	122.0_	95—		*CLAY, silty (CL-ML)- Dark greenis (10Y 4/1), moist, hard, contains traces fine to fine grained SAND	sh gray of very	Top of Blue Bluff Marl at a depth of 92.0 feet  Water level depth at end of 11/17/06 = 28.0 feet
SS 24	▲⊕	11-16-28	18		100-		*SILT (MH) - Dark greenish gray (10° moist, hard, +HCL	Y 4/1),	Water level depth at beginning of 11/27/06 = Borehole dry (Borehole collapsed to 55.0 feet) Reamed hole to a
SS 25	<b>X</b>	50/2.5"	2.5	112.0_	105—		SAA except contains cementation		Reamed hole to a depth of 100.0 feet using a 9 7/8" drill bit. Installed 6" steel casing to a depth of 100.0 feet Water level depth at
	<u> </u>			SITE	339 of	_	Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-4003(DH)</b>



GE	EO	TECHNICAL LO	C	OJEC		JOB NO. SHEET NO.  OL Project 6141-06-0286 3 OF	T NO. HOLE NO. OF 5 B-4003(DH)		
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - 5 2nd 6" - 5 3rd 6" - 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	GE	9-50/4"	10		110-		*SILT, sandy (MH)- Dark greenish gray (10Y 4/1), moist, hard, contains trace shell fragments +HCL	end of 11/27/06 = Ground surface Water level depth at beginning of 11/28/06 = 33.0 feet
SS 27	X		10-14-50/4"			115—		SAA	
UD 1		0		9.5		120		SAA Pocket Penetrometer: >4.75 TSF	Pitcher  Water level depth at end of 12/5/06 = 8.0
SS 28	X	<b>A</b>	20-35-42	18		125—		SAA	feet  Water level depth at beginning of 12/6/06 = 14.0 feet
SS 29	X		31-30-50/2"	14		130-		SAA except greenish gray (10Y 5/1)	
SS 30 UD 2	X	0	23-50/5"	20		135—		SAA except no shell fragments  SAA Pocket Penetrometer: >4.75 TSF	Pitcher
SS 31	X		15-20-50/5"	17	72.0_	145		SAA	
SS 32	X	⊕-+ ▲ □	17-26-34	18	67.0_	150-		*CLAY, with sand (CL)- Greenish gray (10Y 5/1), dry, hard, fine grained SAND, +HCL	
SS 33	X	<b>A</b>	13-41-38	18	37.3	155—		*CLAY, silty (CL-ML)- Greenish gray (10Y 5/1), dry, hard, contains traces fine grained SAND, +HCL	
UD 3				23.5		160-		SAA Pocket Penetrometer: >4.75 TSF	Pitcher  Water level depth at end of 12/6/06 = 19.0
SS	$\boxtimes$		50/2"	2	SITE	V	ogtl	SAA except greenish gray (10GY 6/1), moist, e Units 3 & 4 COL Project Final Log	Water level depth at beginning of 12/7/06 = 32.0 feet HOLE NO. <b>B-4003(DH)</b>



GEC	TECHNICAL LOC	<u> </u>	OJE(		3 & 4	· C	JOB NO. SHEET NO.  OL Project 6141-06-0286 4 OR	
SAMP. TYPE AND NO. SAMPLE	<ul><li>○ WATER CONTENT %</li><li>+ ATT. LIMITS %</li><li>□ FINES %</li></ul>	1st 6" - <del>z</del> 2nd 6" <u>O</u> 3rd 6" <u>Z</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
34	20 40 60 80			53.0	165-		fine to coarse grained, contains large shell fragments	
SS 35	<b>A</b>	6-16-23	18	33.0_	- - - 170— -	<i>A A A A A A A A A A</i>	SAND, silty (SM) - Dark greenish gray (5GY 4/1), wet, dense, fine grained, -HCL	Top of Still Branch Formation at a depth of 166.0 feet
SS 36	•	5-9-14	18		175— 		SAA except medium dense, contains shell fragments, +HCL	
SS ⊠ 37		50/4"	4		185— 190— 195—		SAA except greenish gray (10Y 5/1), very dense, fine to very coarse grained, contains large shell fragments	
UD 4 UD 5	О		6		200-		SAA except dark greenish gray (5GY 4/1) Pocket Penetrometer: 3.5 TSF	Pitcher  Direct Push Water level depth at end of 12/7/06 = 17.0 feet
SS 38 X		10-13-50/5"	12		205		SAA except very dense, fine to medium grained	Water level depth at beginning of 12/8/06 = 49.0 feet
SS 39 X	<b>A</b>	4-13-25	18	-0.8_   SITE	215— 	ogtl	SAA except greenish gray (10GY 5/1), dense,  -HCL CLAY (CL)- Greenish gray (5G 5/1), moist,  e Units 3 & 4 COL Project  Final Log	Water level depth at HOLE NO. B-4003(DH)



	OTECHNICAL LO		OJE(	CT le Units 3 & 4 COL			JOB NO. SHEET NO.  OL Project 6141-06-0286 5 or	
SAMP. TYPE AND NO.	A N-VALUE (SPT)  O WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
	20 40 60 80			-9.0_	225-		hard, low to medium plasticity, contains trace very fine grained SAND	end of 12/8/06 = 13.0 feet Water level depth at beginning of 12/11/06 = 84.0 feet
SS 40		10-28-50/2"	14	-15.0_	230-		CLAY (CL) - Greenish gray (5G 5/1), moist, hard, low to medium plasticity, contains SAND seams up to 1" thick	Top of Congaree Formation at a depth of 228 feet.
SS 41		17-23-50/4"	' 16	-20.5_	240-		CLAY, silty (CL-ML)- Dark greenish gray (10Y 4/1), moist, hard, contains trace very fine grained SAND SAND, silty (SM)- Greenish gray (10GY 5/1), moist to wet, very dense, fine to medium grained, -HCL	Water level depth at end of 12/11/06 = 16.0 feet  Water level depth at beginning of 12/12/06 = 48.0 feet
UD 6			15.5	-30.8_	245-		SAA except dark greenish gray (10Y 4/1), wet, fine grained Pocket Penetrometer: 0.70 TSF SAA except light gray (7/N) Boring terminated at 249.79 feet	Pitcher
				SITE	V 342 of		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4003(DH)</b>



GE	OTECHNICAL LOC	PROJEC <b>Vogtl</b>		3 & 4 CO	JOB NO.  OL Project 6141	-06-0286 SHEET NO	
LOGGED	) BY		DINATES		,	BEGUN	COMPLETED
DRILLER	B. Sharp	DRILL	MAKE AND		69.7 E 621046.6 HOLE DIAMETER	11/8/2006  HAMMER SERIAL NUMB	11/10/2006 BER TOTAL DEPTH
	Oglesby-MACTEC		C	CME-75	5 Inches	219907	150.0
GROUND 218	$\nabla$ $I$	SITE:			Vogtle Electric Ger	narating Plant _ Wa	ymeshere GA
210	J.S. <u>¥</u> /				Vogue Electric Ger	ici ating i iant - ** a	lynesboro, GA
SAMP. TYPE AND NO. SAMPI E	A N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	3rd 6" ≒ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AND (  (* = field classification ad laboratory testing data and of sample by field geological states and the sample by field geological states are sample by field geological states and the sample by field geological states are sample s	justed based on	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS	10-21-	10 17	217.5_		GRAVEL, with sand ( 5/2), moist, dense, fine	GP)- Brown (7.5YR	Top of Fill at a depth of 0.0 feet
$\begin{bmatrix} 1 & \times \\ SS & \times \\ 2 & \times \\ SS & \times \\ 3 & \times \end{bmatrix}$	9-12-1		216.7_ 215.2_	5—	SAND SAND, silty (SM) - Red dense, fine grained	1 (10R 4/6), moist,	Top of Barnwell Group at a depth of 1.0 feet
SS 4	12-13-	13 18			SAND, with silt (SP-SI) moist, medium dense, fi SAND, silty (SM)- Rec medium dense, fine to r SAA	iné grainèd T (10R 4/6), moist, nèdium grained	
SS 5	8-11-1	12 12		10-	SAA		
$\begin{bmatrix} SS \\ 6 \end{bmatrix}$	11-12-	14 14			SAA except dark red (1 coarse grained	0R 3/6), contains some	
SS 7	6-14-1	12   13		15	SAA except strong brow	vn (7.5YR 5/8)	
SS 8	16-24-	34 13	201.5_	20-	*SAND, with silt (SP-S (7.5YR 6/6), moist, ver- grained	SM)- Reddish yellow y dense, fine to medium	
SS 9	7-9-5	16	191.5_	25-	SAND, silty (SM)- Strc 5/6), moist, medium der grained, contains CLAY	ong brown (7.5YR nse, fine to medium / lenses	
SS 10	7-10-	9 14	186.5_	30-	SAND, with clay (SP-8 (10YR 5/6), moist, med medium grained	SC)- Yellowish brown ium dense, fine to	
SS 11	5-7-8	3 18		35-	*CLAY, sandy (CL)- (10YR 7/3), moist, stiff some black manganese	Very pale brown , fine grained, contains staining	
SS 12	5-6-5	) 16		40-	SAA		
SS X	2-3-3	18	171.5	45-	SAA		
ss	5-5-5	5 18		-//	*SAND, clayey (SC)-1 (10YR 6/8), moist, loos		
	ED BY: A. TAYLOR ED BY: P. DEPREE		SITE	_	e Units 3 & 4 COL Proje Final Log	ect	HOLE NO. <b>B-4004</b>
<b>—</b>				343 of 724	<i>o</i>		



GE	OTECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 OF	
SAMP. TYPE AND NO. SAMPI F	○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 60 80							
SS 15	<b>A</b>	3-3-3	18		55—		SAA except light yellowish brown (10YR 6/4), fine to medium grained, contains CLAY lenses	
SS 16		12-11-15	13	161.5_	60-		SAND, with clay (SP-SC)- Pale brown (10YR 6/3), moist, medium dense, fine grained	
SS 17	, <b>A</b> D O	3-8-4	18	156.5_ 154.0_	65—		SAND, clayey (SC) - Pale brown (10YR 6/3), moist, medium dense, fine to medium grained SAND, silty (SM) - Light gray (10YR 7/2), moist, medium dense, fine to coarse grained, contains shell fragments	
SS 18	, <u> </u>	7-9-13	18		70-		SAA	Loss of circulation at a depth of 65.0 feet
SS 19	, D <b>A</b>	12-13-10	18	141.5	- - 75—		SAA except white (10YR 8/1), medium to coarse grained	
SS Z	,	13-17-22	18	139.0_	80-		SAND (SP) - Light gray (10YR 7/2), moist, dense, fine to medium grained, contains some CLAY lenses SAND, clayey (SC) - Light gray (10YR 7/2), moist, dense, line to medium grained	
SS Z1	•	10-12-15	18	136.5_	85—		*SAND, with silt (SW-SM)- Light gray (10YR 7/2), moist, medium dense, fine to medium grained	
SS 22	0	50/2"		131.0_ 127.5_	90-		*SHELL HASH, with silt (SW-SM) White (10YR 8/1), moist, very dense, fine to coarse grained, contains cemented shell fragments	Top of Utley Limestone at a depth of 87.5 feet Top of Blue Bluff
SS 23	<b>A</b>	8-13-13	18		- - 95—		*SILT, with sand (MH)- Greenish gray (5G 4/1), moist, very stiff, contains trace very fine to fine grained SAND	Marl at a depth of 91.0 feet
SS X	OH	29-34-50/1"	13		100-		SAA except hard	
SS 25	♠	14-16-33	18	116.5_	105—		*SILT (MH) - Greenish gray (5G 4/1), moist, hard, high plasticity SAA	
				SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4004</b>



GE	EC	OTECHNICAL LOC	•	ojec		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 OF	
SAMP. TYPE AND NO.	SAMPLE		1st 6" -7 2nd 6" 5 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>A</b>	20-19-24	18		110-		SAA except dark greenish gray (5GY 4/1), contains shell fragments	
SS 27	X		11-13-50/5"	17	101.5	115-		SAA except greenish gray (10Y 5/1)	
SS 28	X	++	40-50/2"		101.5_	120-		*SILT, sandy (MH)- Greenish gray (10Y 5/1), moist, hard, very fine to fine grained SAND, contains lithified zones	
SS 29	×		50/5"	5		125-		SAA except contains cemented shell fragments	
SS 30	X		25-31-50/5"	17	86.5	130-		SAA except no shell fragments	Water level depth at end of 11/9/06 = 62.0
SS 31	X	++	0/6"-33-50/5	15.5	80.5_	135—		*SILT, with sand (MH)- Greenish gray (10Y 5/1), moist, hard, very fine to fine grained SAND, contains cemented shell fragments	feet Changed to a 2 7/8" drill bit Water level depth at beginning of 11/10/06 = 62.0 feet
SS 32			50/0.5"	0.5		140-		SAA except light greenish gray (5GY 7/1), dry to damp	
SS 33	X		26-41-50/4"	16	71.5_	145-		SAA except greenish gray (10Y 6/1), moist	
SS 34	X	+0-▲-+ □	20-20-20	18	68.5_	-		*CLAY, with sand (CL)- Greenish gray (10Y 6/1), moist, hard, nonplastic to low plasticity Boring terminated at 150 feet	
	1 1				SITE	V	HOLE NO. <b>B-4004</b>		



OFOTFOLINIOAL I	PRO	OJEC	T				JOB NO.		SHEET NO.		HOLE NO.
GEOTECHNICAL L	7.0			3 & 4	C	OL Project	6141-0	<b>06-0286 1</b> or			
LOGGED BY	CC	OORE	DINATES	NT 111	1051	15 0 E (200	40.7	BEGUN	0.5	COMPL	
B. Sharp	DF	RILL	MAKE AND			15.0 E 6209 HOLE DIAM		2/13/20 HAMMER S	U7 ERIAL NUMBI	3/20/ ER	2007 TOTAL DEPTH
Oglesby-MACTEC				ME-7		6 I	nches		219907		164.9
GROUND EL. DEPTH/EL. GROUND	WATER SITE	Ē:									
221.1 💆 /						Vogtle Electi	ric Gene	erating Pl	ant - Way	ynesbo	oro, GA
A N-VALUE (SPT)  O WATER CONTENT %  HATT. LIMITS %  FINES %  20 40 60 80	1st 2n 3rc	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	laboratory te	assification adjus	sted based on re-examination	TION	CHARA DRILLII	R LEVELS, ACTER OF NG AND ATORY
SS	9-10-7	15	220.1_		• 📉	<b>GRAVEL, wit</b>	th sand (G	<b>P)</b> - Gray (7	.5YR	Top of	Fill at a depth
1 SS X 2 SS X A	7-10-13 14-13-13	13 8.5		- - -		SAND (SP) - S damp to moist,	SAND strong brow medium d	vn (7.5YR 5 lense, fine to	/8), o medium	Top of Group a	Barnwell at a depth of
SS 4	13-10-10	18	215.6_	5— - -		SAA except str brown (7.5YR SAA except br *SAND, silty ( 4/6), moist, me	4/3), mois own (7.5Y (SM) - Stro	t ( <u>R 4/3), fine</u> ong brown (7 se, fine grain	grained / .5YR ed		
SS 5	3-4-3	10.5		-		SAA except lo		, 5			
SS A	4-3-3	6.5		10-		SAA except ye	ellowish re	d (5YR 5/8)			
SS 7 A	4-4-3	9.5		15-		SAA except str dense	rong browi	n (7.5YR 5/8	3), medium		
SS 8 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4-4-6	10	204.1_	20-		SAND, clayey 4/6) and yellow to medium den	(SC)- Strovish red (5 se, mediur	ong brown ( YR 5/8), mo n grained	7.5YR oist, loose		
SS 9 A	3-4-3	8	194.1_	25-		SAND, with cl (5YR 6/8), mor contains black	lay (SP-SC) ist, loose, of manganeso	C)- Reddish coarse graine e staining	yellow ed,		
SS 10	3-4-2	16		30-		SAND, clayey 5/8), moist, loc contains CLAY	(SC) - Strose, medium 7 lenses	ong brown ( m to coarse g	7.5YR grained,		
SS 11	3-5-4	10		35-		SAA except br yellowish red (	ownish ye 5YR 5/8)	llow (10YR	6/8) and		
SS X A $\square$	3-3-3	15	179.1	40-		SAA except br pale yellow (5)	ownish ye Y 7/4), med	llow (10YR dium grained	6/8) and d		
SS X	2-4-3	16		- - 45—		SILT, sandy ( moist, medium medium graine	ML)- Pale stiff, low ed, -HCL	yellow (5Y plasticity, fi	7/4), ne to		
ss	WOH/18"	12	0.==	-		SAA except ve					
PREPARED BY: A. TAYLOR			SITE	V	ogtl	e Units 3 & 4 CC Final Log		t		HOLE NO	-400 <b>5</b>
REVIEWED BY: P. DEPREE				346 of	724		<u> </u>			D	- <b>T</b> UUJ



GE	OTECHNICAL LO	<u>~</u>	OJEC ogtl		3 & 4	CC		ов no. 6141-06-0286	SHEET NO		OLE NO. <b>B-4005</b>
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>7</del> 2nd 6" <u>0</u> 3rd 6" <del>-</del> 3	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field class	I AND CLASSIFICAT sification adjusted based on ing data and/or re-examination ield geologist/engineer)	ION	DRILLIN LABORA TESTING	LEVELS, CTER OF G AND TORY
SS 15	<b>A</b>	WOH/12"-5	13		55—		SAA except soft fine grained SAN	to medium stiff, very ND	fine to	Loss of c a depth o	irculation at f 50.0 feet
SS 16	,	VOH/14"-2/4	<b>!</b> "14		60-		SAA except very fragments and so	y soft, contains abund ome black manganese	ant shell staining		
SS 17		WOH/19"	15		65—		SAA except no s	shell fragments			
SS 18		WOH/21"	16		70-		SAA except wet				
SS 19		WOH/24"	7		75—		SAA except no r	manganese staining		Water levend of 2/	vel depth at 14/07 = 19.0
SS 20		WOH/24"	12	139.1_	80-		SAA			Water lev beginning = 68.0 fe	vel depth at g of 2/15/07 et
SS 21		WOH/19"	0	136.1_	85		NO RECOVER	<b>Y</b>			
SS 22		8-8-11	18	131.6_	90-		SILT (ML) - Lig moist, very stiff, lenses, +HCL *SILT (MH) - E 4/10Y), damp, v contains SAND	ght olive brown (2.5Y, low plasticity, contain of the plasticity o	15/3), ns SAND LEY1 ty,	Top of B Marl at a 89.5 feet Water levend of 2/	lue Bluff depth of vel depth at 15/07 = 58.0
SS × 23	2	16-50/4.5"	10.5		95-			k greenish gray (GLE) o shell fragments		feet Water lev beginning = 2.5 fee Installed casing to	vel depth at g of 3/15/07 t 6" steel
SS 24	<b>A+</b> 0+C	12-15-26	18		100-		SAA			95.0 feet	a depth of
UD 1			27.5		105-		SAA except con. Pocket Penetrom	ains abundant shell fra neter: >4.75 TSF	agments	Pitcher	
1				SITE	347 of		e Units 3 & 4 COI Final Log	L Project		HOLE NO.	4005



GE	OTECHNICAL LC		JECT gtle Units	3 & 4 C	OL Project   JOB NO.   SHEET   6141-06-0286   3	NO. HOLE NO. B-4005
SAMP. TYPE AND NO.	■ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in) ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 25	<b>X</b>	OH/6"-50/0"	6 109.1_	110-	SAA	
SS 26	Q- <b>A</b>	16-19-22	18	115-	*SILT, sandy (MH)- Dark greenish gray (GLEY 1 4-5GY), damp, hard, high plasticity, contains sand lenses and shell fragments, +HC	L
SS 27	Z .	44-50/4"	10	120-	SAA except few shell fragments and abundant cementation	
SS 28	X	21-26-50/2"		125—	SAA except greenish gray (GLEY1 6/10Y)	
SS 29	+ ⊙▲+ □	15-28-35	94.1_	130-	*SILT (MH)- Greenish gray (GLEY I 6/10Y), damp, hard, high plasticity, +HCL SAA	
SS 30	Z .	14-50/6"	12	135—	SAA	
SS 31	<b>X</b>	29-29-50/5.5"1		140-	SAA except no shells or cementation	Water level depth at end of $3/15/07 = 6.5$
SS 32 2	9+ 🗆 🛦	27-36-46	79.1_	145	*CLAY, with sand (CL)- Greenish gray (GLEY1 6/10Y), damp, hard, low plasticity, +HCL *SAA with shell fragments	Water level depth at beginning of 3/19/07 = 43.0 feet
UD 2			26	150	SAA Pocket Penetrometer: >4.75 TSF	Pitcher Water level don'th at
SS 33	₹	50/4"	4	155-	SAA except some cementation and shell fragments	Water level depth at end of 3/19/07 = 10.0 feet  Water level depth at beginning of 3/20/07 = 21.5 feet
SS 34		16-21-50/2"	14	160-	SAA except abundant shell fragments	
SS	₹	8-30-50/5"	58.1_ 8 SITE		SAND, silty (SM)- Very dark greenish gray le Units 3 & 4 COL Project Final Log	Top of Still Branch HOLE NO. B-4005



GE	OTECHNICAL LO		OJE		2.0.4		JOB NO. SHEET NO		
		<u> </u>	ogtl	le Units	3 & 4	F C(	<b>DL Project</b>   6141-06-0286   4 OF	4 B-4005	
SAMP. TYPE AND NO. SAMPIF	☐ FINES 70	lst 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING	
35 ×	20 40 60 80			56.2-		390	(GLEY1 3/10Y), wet, very dense, fine grained,	Formation at a depth	
35 &				56.2-			(GLEY1 3/10Y), wet, very dense, fine grained, HCL Boring terminated at 164.92 feet	Formation at a depth of 163.0 feet	
	1 : : : :			SITE	V	ogtl		HOLE NO.	
					Final Log B-4005				

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GF	=(	T	FCHNIC	CAL LO	C	OJEC		•			JOB NO.		SHEET NO		HOLE NO.
LOGG					V		e Units :	3 & 4	CO	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	4 COMPI	B-4006
		01	B. Sha	ırn		JOOK		N 114	1271	19.6 E 6210	76.4	1/4/200	7	1/11/	
DRILLI	ΞR		Di Sitt	. <u>.</u> P	D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
			Oglesby-M				C	ME-	75	4 I	nches		219907		165.0
GROU 2	ND <b>21</b>		DEPTH/EL. ▼ / ▼ /	GROUND WAT	FER SIT	<b>E</b> :				Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	oro, GA
				<b></b> `											
SAMP. TYPE AND NO.	ш	^	N-VALUE (S	PI)	N-COUNT	Y (in)	Z O ⊢	ᇤ	တ္ပ					NOTES	
L.S	SAMPLE	0	WATER COI	NTENT %	1st 6" 2nd 6" 3rd 6"	RECOVERY	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTIO	ON AND CL	ASSIFICAT	ION		R LEVELS, ACTER OF
AAA	SAI	+	ATT. LIMITS	i %		00	Ξ N N	EPT	3RA	( * = field c	lassification adjust esting data and/or y field geologist/e	re-examination			NG AND RATORY
S			FINES %			묎	ш			or sample o	y neid geologist/e	ngmeer)		TESTIN	
SS	$\bigcup$	<u> </u>	20 40	60 80	2-2-3	8	221.0		(1) Yes	SAND (SP)-	Vellowish r	ed (5VR 5/8	) moist	Top of	Barnwell
1	Ä		<b>A</b>		6-9-13	16.5	219.5_	-		loose, very fin	e to fine gra	ained		Group a	at a depth of
SS 2	Д						217.7_	-		<b>SAND, with s</b> (5YR 5/6), mo				0.0 1001	
SS 3	X		_		7-14-15	6		5-		SAND, silty (\$4/6), moist, mo	SM)- Redd edium dens	ish brown (5 e, fine graine	YR ed		
SS		•			4-5-4	15.5		-				_			
4	A						213.0_	-		SAA except st loose, very fin	e to fine gr	ained			
SS 5	X	•			4-2-4	11	210.5	10-		<b>SAND, with s</b> (7.5YR 5/6), n	ilt (SP-SM noist, loose	)- Strong bro very fine to	own fine		
SS			<b>A</b>		4-6-13	17.5	210.5_	10-		grained					
6	Å						208.0_	-		SAND, clayey 5/6) and strong medium dense black mangand SAND, silty (	g brown (7.	5YR 5/8), m	oist, trace		
SS	M		<b>A</b>		11-18-19	14.5		-		black mangane SAND, silty (	ese staining SM)- Mott	ed vellowish	red		
7	$\Box$							15-		(5YR 5/6) and dense, fine gra	strong bro	wn (7.5YR 5 ins black ma	/8, moist,		
							204.0_	-		staining					
SS	$\square$		<b>A</b>		8-16-16	15.5	201.8	-		SAND, clavey	(SC)- Stro	ong brown (7	5YR		
8	А							20-	- 111	SAND, clayey 5/8), moist, de SAND, silty (	nse, fine gr	ained wish red (5)	(R 5/8)	Water 1	evel denth at
							199.0_	-	Щ	moist, dense, f	fine grained				evel depth at 1/4/07 =   surface
0.0					10-14-15	15.5		-		CAND A	(GC) P. L.	(2.5MD 5/0)	٠,	Water 1	evel depth at
SS 9	X				10-14-13	13.3		25-		SAND, clayey medium dense	e, fine to me	2.5 Y K 5/8), Edium graine	moist, d	beginni Boreho	ng of 1/5/07 = le dry
							194.0	-							
							150_	-							
SS 10	X				9-13-20	12.5		20		SAND (SP) - Y pink (7.5YR 7	Yellowish r /4), moist, (	ed (5YR 5/6 dense, fine to	) and medium		
	П						100.0	30-		grained	,,~- <b>,</b> ·	-,			
							189.0_	-		<u> </u>					
SS	M		<b>A</b>		7-10-12	15.5		-		SAND, silty (55/8), moist, mo	SM)- Yello	wish brown	(10YR		
11	$\square$							35-		grained, conta	ins some bl	e, mie to me ack mangan	ese		
							184.0_			staining — — — — — —					
SS	$\mathbb{H}$	•			3-4-4	18		-		SILT. sandy (	ML)- Yell	ow (2.5Y 7/6	6), moist		
12	Å							40-	-	SILT, sandy ( medium stiff to fine grained S.	o stiff, low AND, conta	plasticity, ve	ery fine to		
								-		<i>5</i>	, <del></del>				
99	Ц	•			4-4-6	18		-	-	CAA	:66	a aon C ABT	D loss		
SS 13	Д				7-7-0	10		45 –	]	SAA except st	.111, contain	s some SAN	D lenses		
								-							
	Ц	•						-	-						
SS	X				4-4-5	18		-	<u> </u>	SAA except pa (7.5YR 5/6), a			g brown ist, stiff,		
			Y: A. TAYLOR Y: P. DEPREE				SITE	V	ogtl	e Units 3 & 4 Co Final Log		t		HOLE NO	o. <b>-4006</b>
NEVIE	v v 🗀	ום ט	. F. DEFREE					350 o	<del>724</del>		<u> </u>			D	7000



GE	ΞC	TECHNICAL LO	<u> </u>	OJE(		3 & 4	l Co	JOB NO. SHEET NO. OL Project 6141-06-0286 2 o	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40 60 80			169.0_	-	-	low plasticity, fine to medium grained SAND, contains black manganese staining, -HCL	
SS 15	X	<b>A</b> ::	4-4-7	18		55—		SAND, silty (SM)- Pale yellow (5Y 7/4) and strong brown (7.5YR 5/8), moist, medium dense, very fine to fine grained, -HCL	
SS 16	X	<b>A</b>	6-8-12	15.5		60-		SAA except yellow (10YR 7/6)	
SS 17	X	•	7-13-10	18	154.0_	65-		SAA except yellow (2.5Y 7/6), fine to medium grained, contains black manganese staining	
SS 18	X	<b>A</b>	3-6-11	18	151.6_ 149.0	70-		CLAY, sandy (CL)- Yellow (10YR 7/6), pale yellow (2.5Y 7/3), moist, very stiff, low plasticity, contains trace shell fragments and SAND lenses, -HCL	
SS 19	X	<b>A</b>	15-22-25	17	147.0_	- - 75 — -		SAND, clayey (SC)- Pale yellow (2.5Y 7/4), reddish yellow (5YR 6/6), and yellow (2.5Y 7/6), moist, medium dense, fine grained, leontains trace shell fragments, -HCL SAND (SP)- Pale yellow (2.5Y 7/4), moist, dense, fine to medium grained, -HCL	
SS 20	X	<b>A</b>	10-12-15	12.5	139.0	80-		SAA except wet, medium dense, very fine to medium grained, contains CLAY lenses and black manganese staining	
SS 21	X	<b>A</b>	7-7-20	18	134.0	- 85—		SAND, silty (SM)- Pale yellow (5Y 8/2), wet, medium dense, fine grained, contains abundant cemented shell fragments, +HCL	Loss of circulation at a depth of 82.0 feet
SS 22	X	<b>A</b>	3-8-16	18	131.5_	- - 90-	- 11	SILT (ML) - Pale olive (5Y 6/4), moist, very stiff, +HCL *SILT, with sand (MH)- Dark greenish gray (10GY 4/1), moist, very stiff, +HCL	Top of Blue Bluff Marl at a depth of 89.5 feet
SS 23	X	4	13-29-50/5"	18		- - 95—	- - - - -	SAA except hard, contains abundant cementation	Water level depth at beginning of 1/9/07 = 75.0 feet (Borehole collapsed to 85.0 feet)
SS 24	X	•	50/5"	5		100-		SAA except no cementation	
SS 25	X	•	12-18-50/6"	18		105—		SAA except contains few shell fragments	
	11	<u> </u>			SITE	V 351 of	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4006</b>



GE	OTECHNICAL LO	C	OJEC ogtl		3 & 4	CC	OL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO		HOLE NO. <b>B-4006</b>
SAMP. TYPE AND NO.	■ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" -c 3rd 6" - z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field c	ON AND CLASSIFICAT lassification adjusted based on esting data and/or re-examination y field geologist/engineer)	TION	CHAR DRILL	ER LEVELS, PACTER OF LING AND RATORY
SS 26	X	14-20-50/3"	15		110-		SAA except al cementation	oundant shell fragments	s and some		
SS 27	X	21-30-50/2"	14		115—		SAA				
SS   28	X	9-50/5"	11		120-		SAA except so	ome cmented shell fragi	ments	Water	level depth at 1/9/07 =
SS 29	+ ⊕▲ + □	18-24-28	18		125—		SAA except green cementation	reenish gray (5GY 5/1),	, no	Groun	d surface level depth at ling of 1/10/07 feet lole collapsed to eet)
SS 30	<b>A</b>	20-36-39	18		130-		SAA except so	ome cementation			,
SS 31	X	\$1-34-50/3"	15		135—		SAA except no	o shell fragments			
SS 32	$\boxtimes$	42-50/5.5"	11.5	<b>5</b> 0.0	140-		SAA				
SS 33	X 0++ □	49-50/5"	11	79.0_	145—		*CLAY, sand 5/1), moist, ve	ly (CH)- Greenish gray ry stiff, high plasticity,	(5GY +HCL		
SS 34	X	<b>1</b> 6-46-50/5"	17		150-		SAA except tr	ace shell fragments		Water	level depth at 1/10/07 = 74.0
SS 35		12-16-24	18		155—		SAA except gragments	reenish gray (10Y 5/1),	no shell	feet Water	level depth at ning of 1/11/07
SS 36		50/2"	2	64.0_ 61.0_	-		SILT, sandy ( moist, hard, lo contains large	(ML)- Greenish gray (1 w plasticity, fine graine cemented shell fragmen	0Y 5/1), ed SAND, _ nts, +HCL	Top of Forma	f Still Branch tion at a depth .0 feet
SS	<b>A</b>	8-12-22	18	SITE	V 352 of	_	e Units 3 & 4 C Final Log		sh gray	HOLE N	



A N-VALUE (SPT) C WATER CONTENT % FINES % FINES % C No. 80  Step 1	GEOTECHNICAL LOG	PROJECT  Vogtle Units 3		NO. SHEET NO <b>4</b> OF	
56.0 165 EEL (107, 31), moist to wet, dense, fine grained, Boring terminated at 165 feet	ON ON OWATER CONTENT %  WANTER CONTENT %  AMM F  F  F  F  F  F  F  F  F  F  F  F  F	Sto 6" St	DESCRIPTION AN  (* = field classificat laboratory testing da of sample by field gr	ND CLASSIFICATION tion adjusted based on ta and/or re-examination cologist/engineer)	WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY
SITE Vocate Unite 2 & 4 COL Duciest HOLENO	20 40 60 80		165 (10Y 3/1), moist to	wet, dense, fine grained,	TESTING
Final Log  B-4006		SITE	Vogtle Units 3 & 4 COL P	'roject	HOLE NO. <b>P.</b> 1006



GEOTECHNICAL LOG	PROJ		2 2 4 64	07. 70. 4	JOB NO.	26.006	SHEET NO		HOLE NO.
		tle Units	3 & 4 CO	OL Project	6141-0	06-0286 BEGUN	1 OF	4 COMPL	B-4007
B. Sharp	1000		N 11424	26.2 E 6211	25.3	1/24/200	17	1/30/2	
DRILLER	DRII	L MAKE AND		HOLE DIAM		HAMMER SE			TOTAL DEPTH
Oglesby-MACTEC		C	CME-75	6 I	nches		219907		170.0
GROUND EL. DEPTH/EL. GROUND WATER $\frac{\nabla}{2}$ /	SITE:			Vogtla El. 4				1.	
217.9 💃 /				Vogtle Elect	ric Gene	erating Pi	ant - wa	ynesbo	ro, GA
FINES % + ATT. LIMITS %	3rd 6" Z 3rd 6" Z DECOVEDY (in)		DEPTH IN FT GRAPHICS	DESCRIPTIC  (* = field c laboratory t labora	lassification adju-		ION		LEVELS, CTER OF IG AND ATORY
SS 20 40 60 80 4-	5-3 8	217.9	• 🔻	GRAVEL, wi	th sand (G	<b>P)</b> - Dark gra	ı <u>y (</u> 7.5YR	Top of I	Fill at a depth
SS 2 SS 3 A D 8-	6-9 10 5-5 13 4-4 13	6 216.4 <sup>-</sup> 214.7_	5—	A/1), moist, lot SAND, clayey loose, fine gra SAND, silty (9 medium dense SAND, clayey loose to mediu SAA except lo	(SC) - Red ined SM) - Red fine grain (SC) - Red m dense, f	d (10R 4/6), 1	noist,	of 0.0 fe Top of I Group a 1.0 feet	et Barnwell t a depth of
5 1	7-9 1:	3	10-	SAND (SP) - Y medium dense	Yellowish 1, very fine	red (5YR 5/8 to fine grains	), moist,		
SS 6	3-10 1	2		SAA					
SS 7 8-1	1-11 12	200.9_	15-	SAA					
SS 8 7-5	9-11 1-	195.9_	20-	SAND, with s (5YR 5/8), mo medium graine	ilt (SP-SM ist, mediured	I)- Yellowish m dense, fine	red to		
SS 9 11-2	22-26 12	.5	25-	SAND (SP) - V dense, medium manganese sta	Yellow (10 n grained, c ining	YR 7/8), mocontains black	ist, k		
SS 10 - 9-1	1-13 1:	2	30-	SAND, clayey strong brown ( dense, mediun	(SC)- Yel 7.5YR 5/6 n grained	llow (10YR 7 ), moist, med	7/8) and lium		
SS 11 8-	6-6 1:	180.9	35	SAA except by contains CLA	ownish ye Y lenses	llow (10YR (	5/8),		
SS 12 4-	4-6 18		40-	CLAY, silty w yellow (2.5Y 6 contains black	yith sand ( 5/6), moist, manganes	CL-ML)- Ol stiff, low pla e staining	ive asticity,		
SS 13 A 3-	4-5 18		45-	SAND, clayey moist, loose, v black mangane	(SC) - Oli ery fine to ese staining	ve yellow (2. fine grained, g, -HCL	5Y 6/6), contains		
	6-9 1			SAA except m grained, conta	ins shell fra	agments			
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vogtl	e Units 3 & 4 Co Final Log		t		HOLE NO	<u>-4007</u>



A N-VALUE (SPT)	GE		TECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	C	JOB NO	SHEET NO	
165.9	SAMP. TYPE AND NO.	SAMPLE	<ul><li>○ WATER CONTENT %</li><li>+ ATT. LIMITS %</li><li>□ FINES %</li></ul>	N-COUNT			F		DESCRIPTION AND CLASSIFICATIO		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY
160.9   16   160.9   16   160.9   16   160.9	14		20 40 00 80			165.9_	-				
SAND, clayery (SC)- Pale yellow (SY 7/4),   Water level depth at least of 1/24/07 = 0.0   SAND, clayery (SC)- Pale yellow (SY 8/2), wet,   wet dense, medium grained, 2014   SAND, clayery (SC)- Pale yellow (SY 8/2), wet,   wet dense, medium grained, 2014   SAND, clayery (SC)- Pale yellow (SY 8/2), wet,   wet dense, medium grained, 2014   SAND, clayery (SC)- Pale yellow (SY 8/2), wet,   wet dense, medium grained, 2014   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07 = 0.0   SAND, clayery (SC)- Pale yellow (SY 8/2), wet,   wet dense, medium grained, 2014   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07 = 0.0   Water level depth at least of 1/24/07   Water level depth at least of 1/2	SS 15	X	<b>A</b>	2-4-4	18	160.9_	55—		plasticity, contains black manganese sta	low low aining,	
SAND, clayey (SC) - Pale yellow (SY 7/3), moist in wet, interior interior grained, H.C.		X		6-10-9	16	155.9_	60-		SAND, clayey (SC)- Pale yellow (5Y 7) moist, medium dense, medium grained, contains shell fragments, -HCL	7/4),	
SS 20  4-6-6 18  4-6-6 18  145.9  70  SAND, clayey (SC)- Pale yellow (5Y 7/3), moist to wet, medium dense, medium gramed, contains some shell fragments, -HCL  Water level depth at end of 1/24/07 = 0.0 feet  SAND, silty (SM)- Pale yellow (5Y 8/2), wet, dense, medium to coarse gramed, contains cemented shell fragments, -HCL  SS 20  8-12-15 18  80  SILT, sandy (ML)- Light greenish grav (GLEY1 7/5CV), moist to wet, stiff low plasticity, very fine to fine gramed SAND, contains trace shell fragments, -HCL  SAND, silty (SM)- Pale yellow (5Y 8/2), wet, very dense, fine gained, contains shell fragments, -HCL  SAND, silty (SM)- Pale yellow (5Y 8/2), wet, very dense, fine gained, contains shell fragments, -HCL  SAND, silty (SM)- Pale yellow (5Y 8/2), wet, very dense, fine gained, contains shell fragments, -HCL  SAA except contains cemented shell hash  95  SAA except contains cemented shell hash  100  SSILT, sandy (ML)- Pale olive (5Y 6/4).  SAA except very stiff, nonplastic to low plasticity, very high gramed SAND, -HCL  SAA except very stiff to hard Pocket Penetrometer: >4,78 TSF  SAA except very stiff to hard Pocket Penetrometer: >4,78 TSF  SAA except greenish gray (GLEY1 4/5GY), hard, contains some cementation  HOLE NO.		X	<b>A</b>	9-15-15	17	150.9	65—		SAND (SP) - Light yellowish brown (16/4), moist, medium dense to dense, fin medium grained, -HCL	0YR e to	
SS 20   42-18-21   18   75		X	<b>A</b>	4-6-6	18	_	70-		SAND, clayey (SC)- Pale yellow (5Y 7 moist to wet, medium dense, medium g contains some shell fragments, -HCL	7/3), rained,	Water level depth at end of 1/24/07 = 6.0
SS Z 11-50/4* 10 135.9 SAA except contains cemented shell hash  SS Z 12-15 18 SAP Contains trace shell fragments, HCL Top of Utley Limestone at a depth of \$2.0 feet  SS Z 12-15 18 SAP Contains trace shell fragments, HCL Top of Utley Limestone at a depth of \$2.0 feet  SS Z 12-15 18 SILT, sandy (ML)- Pale pellow (5Y 8/2), wet, very dense, fine gained, contains shell fragments, HCL SAA except contains cemented shell hash  SS Z 12-15 18 SILT, sandy (ML)- Pale olive (5Y 6/4), moist, very stiff, nonplastic to low plasticity, very fine grained SAND, HCL SAA except very stiff to hard Pocket Penetrometer: >4.75 TSF  SS Z 15 SAA except greenish gray (GLEY1 4/5GY), hard, contains some cementation  SITE Vogtle Units 3 & 4 COL Project HOLE NO.		X	<b>A</b>	42-18-21	18		75—		SAND, silty (SM)- Pale yellow (5Y 8/2 dense, medium to coarse grained, conta cemented shell fragments, +HCL	2), wet, ins	Water level depth at beginning of 1/25/07 = 30.0 feet
SS 21  SAND, silty (SM)- Pale yellow (5Y 8/2), wet, fragments, +HCL  SAA except contains cemented shell hash  SILT, sandy (ML)- Pale olive (5Y 6/4), moist, very stiff, nonplastic to low plasticity, very fine grained SAND, +HCL  SILT, (MH)- Dark greenish gray (GLEY1 4/10Y), moist, very stiff, high plasticity, +HCL  SAA except very stiff to hard Pocket Penetrometer: >4.75 TSF  SAA except very stiff to hard Pocket Penetrometer: >4.75 TSF  SAA except greenish gray (GLEY1 4/5GY), hard, contains some cementation  HOLE NO.	SS 20 2	X	<b>A</b>	8-12-15	18		80-		SILT, sandy (ML)- Light greenish gra (GLEY1 7/5GY), moist to wet, stiff, lovely plasticity, very fine to fine grained SAN contains trace shell fragments, -HCL	y w ND,	Top of Utley
SS 23   SILT, sandy (ML) - Pale olive (5Y 6/4), moist, very stiff, nonplastic to low plasticity, very fine grained SAND, +HCL *SILT, (MH) - Dark greenish gray (GLEY1 4/10Y), moist, very stiff, high plasticity, +HCL SAA except very stiff to hard Pocket Penetrometer: >4.75 TSF   SAA except greenish gray (GLEY1 4/5GY), hard, contains some cementation   Hole No.	SS 2	X		11-50/4"	10		85 —		SAND, silty (SM)- Pale yellow (5Y 8/2 very dense, fine gained, contains shell fragments, +HCL	2), wet,	Limestone at a depth of 82.0 feet
SS 23	SS 22			50/1"	0	127.9_	90-		SAA except contains cemented shell ha	sh 	
SS 24 SAA except very still to hard Pocket Penetrometer: >4.75 TSF  SAA except very still to hard Pocket Penetrometer: >4.75 TSF  SAA except greenish gray (GLEY1 4/5GY), hard, contains some cementation  SITE Vogtle Units 3 & 4 COL Project HOLE NO.	SS 23	X	<b>.</b>	8-9-11		124.1_	95 —		SILT, sandy (ML)- Pale olive (5Y 6/4 moist, very stiff, nonplastic to low plast very fine grained SAND, +HCL *SILT, (MH)- Dark greenish gray (GL 4/10Y), moist, very stiff, high plasticity	), ticity,	Marl at a depth of
24   105   110.9   110			0 +0+		26		100-		SAA except very stiff to hard Pocket Penetrometer: >4.75 TSF		Pitcher
SITE Vogtle Units 3 & 4 COL Project HOLE NO.	SS 24	X		15-22-50/3"	15	110.9	105-		SAA except greenish gray (GLEY1 4/5 hard, contains some cementation	GY),	
				<u>I</u>			V	ogtl	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-4007</b>



GF	= _	TECHNICAL LOC	<u> </u>	OJEC		2.0	. ~ .		JOB NO.	SHEET NO		HOLE NO.
JL	- <b>~</b>			ogtl	e Units	3 & 4	l C(	OL Project	6141-06-0286	<b>3</b> OF	4	B-4007
SAMP. TYPE AND NO.	SAMPLE		1st 6" 7 2nd 6" O 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field c	ON AND CLASSIFICATI classification adjusted based on esting data and/or re-examination y field geologist/engineer)	ON	WATE CHAF DRILI	ES ON: ER LEVELS, RACTER OF LING AND BRATORY ING
SS 25	X	<b>▲</b> + +	14-18-19	18		110-		*SILT, with s (GLEY1 4/5G fragments	and (MH)- Greenish gr Y), moist, hard, contain:	ay s shell		
SS 26	$\boxtimes$		12-50/2"	8	100.9	115-	-	SAA except ab	oundant cementation		Water	level depth at f 1/25/07 = 10.0
UD 2		O+B		12.5	100.9_	120-		*CLAY, sand 4/5GY), moist Pocket Penetro	y (CH)- Greenish gray ( , hard, contains shell fra ometer: >4.75 TSF	GLEY1 gments	begins = 42.0 Pitche	level depth at ning of 1/26/07 ) feet er ged to 2 7/8"
SS 27	×		50/5"	5	90.9	125-		SAA except gr contains trace	reenish gray (GLEY1 5/ shell fragments and cem	5GY), nentation	drill b	ūt
SS 28	X	+0	25-28-37	18	70.7_	130-		*SILT, with s (GLEY1 5/5G shell fragment	and (MH)- Greenish gr Y), moist, hard, contains	ay s trace		
SS 29	X		8-31-50/5.5	"17.5		135-	-	SAA except so	ome cementation			
SS 30	$\boxtimes$		36-50/1"	7		140-	-	SAA				
SS 31	$\boxtimes$		48-50/2"	8		145-	-	SAA except gi	reenish gray (GLEY1 6/	10Y)		
SS 32	X	<b>A</b>	14-23-36	18		150-		SAA			Water	level depth at f 1/26/07 = 14.0
UD 3		0		30		155-		SAA Pocket Penetro	ometer: >4.75 TSF		Water begins = 49.5	level depth at ning of 1/29/07 feet
SS 33	X	<b>A</b>	8-22-21	18		160-		SAA			Water begin	ed hole to a of 153.5 feet a 5 7/8" drill bit level depth at f 1/29/07 = 49.0 level depth at ning of 1/30/07
SS	X	<b>A</b>	11-17-18	18	SITE	- - -	Zoget'	SAA	OI Project		= 49.(	) feet
					JIL	356 of	_	e Units 3 & 4 Co Final Log				B-4007



GE	ΞC	OTECHNICAL LOG	PRC Vo			3 & 4	C		T NO		HOLE NO. <b>B-4007</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	2nd 6" Ö 3rd 6" ⊐	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		CHAR DRILL	R LEVELS, ACTER OF ING AND RATORY
34	X				51.9_	165-				Top of	Still Branch tion at a depth 0 feet
SS 35	X	9	-9-14	18	47.9_	- - 170-		SAND, silty (SM)- Very dark greenish gray (GLEY1 3/5G), wet, medium dense, fine grained, -HCL Boring terminated at 170 feet	,	of 166	0 feet
					SITE	357 of		e Units 3 & 4 COL Project Final Log		HOLE N	o. <b>B-4007</b>



GEC	TECHNICAL LO	2	OJEC					JOB NO.		SHEET NO.		HOLE NO.
LOGGED		, ,		e Units	3 & 4	C	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	4 COMPL	B-4008
LOGGED	B. Sharp		OOK		N 114	242	24.2 E 6209	73.8	1/31/200	)7	2/28/2	
DRILLER		D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
ODOLIND	Oglesby-MACTEC EL. DEPTH/EL. GROUND WAT	ED OIT	_	C	ME-	75	6 I	nches		219907		169.4
GROUND 218.	$\nabla$ /	ER SITE	Ξ.				Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	ro, GA
	- '						8		8		<u>v                                      </u>	
B	▲ N-VALUE (SPT)	N-COUNT	(in)	N	ᇤ	SS					NOTES	
AMP. TYF AND NO. SAMPLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ÆR)	'ATI( FEET	<u>Z</u> ⊥	PHIC	DESCRIPTIO	ON AND CL	ASSIFICAT	ION		R LEVELS, CTER OF
SAMP. TYPE AND NO. SAMPLE	+ ATT. LIMITS %		RECOVERY (in)	ELEVATION IN FEET	DEPTH IN	GRAPHICS	( * = field c laboratory t of sample b	lassification adjust esting data and/or y field geologist/e	sted based on re-examination		DRILLIN LABOR	NG AND ATORY
0	☐ FINES %		牊				or sample o	y neia geologist (	angineer )		TESTIN	IG
SS	20 40 60 80	5-8-11	14	218.1 217.3_			GRAVEL, wi	th sand (G	<b>P)-</b> Gray (5)	YR 6/1),	Top of I	Fill at a depth
$\begin{vmatrix} 1 \\ SS \end{vmatrix}$	<b>A</b>	8-10-11	18		_		SAND, clayey (10R 4/6), more	(SC) - Rec	ise l (2.5YR_4/8)	) and	Top of I	Fill at a depth eet Barnwell t a depth of
$\begin{bmatrix} ss \\ 2 \\ ss \\ 3 \end{bmatrix}$	<b>A</b>	4-8-9	12		- 5		SAA except re	ed (2.5YR 4	1 dense, fine 1/8)	grained	0.8 feet	t a depth of
SS X	<b>A</b> I	12-11-13	18		- -		SAA					
SS X	<b>A</b>	7-11-11	14		10-		SAA except re	ed (10R 4/8	)			
	<b>A</b>	7-13-12	14	205.1	-		SAA except re	ed (2.5YR 4	1/8)			
SS 7		7-10-9	14	203.1_	15-		SAND, silty (S	SM)- Yello n dense, fin	owish red (5Y) e grained	7R 5/8),		
					-							
SS X	4	6-9-10	10		20-		SAA except re (7.5YR 5/8), f	ed (10R 4/6 ine to medi	) and strong um grained	brown		
				196.1_	-			. — — — -				
SS S	<b>A</b>	9-12-12	11		25-		SAND (SP) - Y	, medium g	Y 7/6), mois grained, conta	st, ains black		
				191.1_	-	77	manganese sta	. — — — -				
SS X	<b>A</b>	5-2-6	14	188.9_ 188.1_	30-		SAND, clayey 6/8), moist, loo	(SC) - Recose, fine to	ldish yellow medium gra	(7.5YR ined		
					-		CLAY, with s (10YR 6/8), m medium plasti	oist, meďiu	m stiff to sti	ff, low to		
SS X	<b>A</b>	5-6-8	15		35-		SAND, clayey to yellow (2.5 medium grains	( <b>SC</b> ) - Oliv Y 7/6), moi	ve yellow (2. st, medium o	.5Y 6/6) lense,		
				181.1_	-							
ss 🗸	<b>▲</b> □ ○++	3-5-6	18		_		*SAND eilty	(SM)- Oliv	ve vellow (2	5V 6/6)		
12					40-		*SAND, silty moist, medium plasticity, very	dense, nor fine to fin	nplastic to lo e grained SA	ND		
					-							
SS X	^	3-4-4	18		45—		SAA except lo	oose				
					-							
ss	`	WOH/18"	18		_		SAA except ye micaceous, co	ellow (2.5Y	7/6), very le	oose,		
	D BY: A. TAYLOR			SITE	V	ogtl	e Units 3 & 4 Co	OL Projec			HOLE NO	
REVIEWE	D BY: P. DEPREE				358 of	<del>72</del> 4	Final Log	<u> </u>			B.	-4008



GEO	TECHNICAL LO		OJE(		3 & 4	C	JOB NO. SHEET N OL Project 6141-06-0286 2 0	10. of <b>4</b>	HOLE NO. <b>B-4008</b>
SAMP. TYPI AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" ±	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	WA <sup>-</sup> CHA DRI LAB	TES ON: TER LEVELS, ARACTER OF LLING AND ORATORY ITING
14	20 40 60 80				_		-HCL		
SS 15		1-1-1	18		55—		SAA except yellow (10YR 7/8), not micaceous		
SS 16		WOH/12"-3	18		60-		SAA except abundant black manganese staining		
SS 17	<b>A</b>	4-3-6	15.5	153.9_ 151.4	65—		SAA except reddish yellow (7.5YR 6/6), moist to wet, loose, fine to medium grained, contains abundant black manganese staining CLAY, sandy (CL) Olive yellow (2.5Y 6/6),		
SS X		5-16-50/5"	15	131.4_	70-		moist, stiff, low plasticity, contains few shell 'fragments and black manganese staining, -HCL SAND, silty (SM)- White (5Y 8/1), moist to wet, very dense, fine to very coarse grained, contains partially cemented shell hash, +HCL	Loss	s of circulation at pth of 70.0 feet
SS N	<b>A</b>	14-16-17	18	141.1	75—		SAA except wet, dense, medium grained, contains shell fragments	Cha drill	nged to a 2 7/8" bit
SS Z	<b>A</b>	8-10-13	18		80-		SAND, with silt (SP-SM)- Pale yellow (2.5Y 8/2), wet, medium dense, fine grained, contains trace shell fragments, -HCL		
SS Z1	<b>A</b>	15-26-32	9	121 1	85—		SAA except very dense, no shell fragments		
SS 22		50/1.5"	0	131.1_	90-		NO RECOVERY	Lim of 8	of Utley estone at a depth 7.0 feet er level depth at of 1/31/07 = 64.0
SS 23 X		24-30-50/5"	17	126.1_	95—		*SILT, with sand (MH)- Dark greenish gray (GLEY1 4/5GY), damp, hard, high plasticity, contains shell fragments, +HCL	feet Wat begi Bord (Bord a de Top	of 1/31/07 = 64.0 er level depth at nning of 2/2/07 = ehole dry rehole collapsed t pth of 75.0 feet) of Blue Bluff I at a depth of feet
UD 1	0		8		100-		SAA except contains lithified limestone Pocket Penetrometer: >4.75 TSF	Pitc	ner
UD 2	O		22.5		105—		SAA except damp to moist, very stiff to hard Pocket Penetrometer: >4.75 TSF	begi = Gi Pitcl Wat end	er level depth at nning of 2/19/07 round surface her er level depth at of 2/19/07 = und surface
1		1		SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE	B-4008



GE	EC	OTE	CHN	IIC/	AL L	.00	<u> •</u>	OJE(		3 & 4	· C(	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 OF	
SAMP. TYPE AND NO.	SAMPLE	○ W. + A1	T. LIM	CONT	ENT %		1st 6" -7 2nd 6" 0 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 24	X		:	9-+			11-14-15	18		110-		SAA except dark greenish gray (GLEY1 4/10Y), damp, very stiff	Water level depth at beginning of 2/20/07 = Ground surface
SS 25	X		•				11-16-17	18		- - 115—		SAA except greenish gray (GLEY1 5/GY), hard, contains abundant shell fragments	
SS 26	X			<b>A</b>			20-21-27	18	96.1	120-		SAA except few shell fragments	
UD 3			+0	→ - <del>:</del>	-+			9	70.1_	125—		*SILT (MH) - Greenish gray (GLEY 1 5/GY), hard, contains mostly cemented limestone Pocket Penetrometer: >4.75 TSF	Pitcher
UD 4			0					17		130-		SAA Pocket Penetrometer: >4.75 TSF	Pitcher  Water level depth at end of 2/20/07 = 6.0 feet
SS 27	×						50/6"	6		135—		SAA except no cementation	Water level depth at beginning of 2/21/07 = 14.0 feet Changed to a 3 7/8" drill bit
SS 28	_						50/1"	1		140-		SAA except greenish gray (GLEY1 6/10Y), abundant cementation	
SS 29	X			<b>A</b>			19-25-28	18		145—		SAA except no cementation	
SS 30	X		•				16-21-21	18	66.1_	150-		SAA except no shell fragments	
SS 31	X	<u></u>	Ю	+▲			25-21-31	18	00.1_	155—		*CLAY, sandy (CL) -Greenish gray (GLEY1 6/10Y), damp, hard, low plasticity, contains trace shell fragments and cementation	Water level depth at end of 2/21/07 = 7.0
SS 32	*						50/2"	1		160-		SAA except dry, abundant cementation	feet  Water level depth at beginning of 2/28/07 = 65.0 feet
SS	X		<b>A</b>	:			9-13-26	18	SITE	- - - V	ogtl	SAA except moist, contains large shell e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4008</b>



33 20 40 80 80 53.1 165 Fragments Trop of Stull Branch Formation at a depth of 165.0 feet SNP, sitr (SM). Very dark greenish gray mediam ranged HICL Boring terminated at 169.42 feet mediam ranged HICL Boring terminated at 169.42 feet seet of 228.07 = 10.0 feet seet seet seet seet seet seet seet		OTECHNICAL LOC	PRO	JECT				JOB NO.	SHEET NO	).	HOLE NO.
33 2 34 50.5 10 48.7 Figure 1.5 1.6	GEC	JIECHNICAL LOC	Vog	gtle Units	3 & 4	CC	DL Project	6141-06-0286	<b>4</b> OF	4	B-4008
SAND, silty (SM)- Very dark greenish gray (GLFV) 3/10V), we, very dense, fine to medium graned, villed Bouing terminated at 169.42 Feet  Sand, silty (SM)- Very dark greenish gray (GLFV) 3/10V), we, very dense, fine to medium graned, villed Bouing terminated at 169.42 Feet  Water level depth at a feet of the same of t	SAMP. TYPE AND NO. SAMPLE	<ul><li>○ WATER CONTENT %</li><li>+ ATT. LIMITS %</li><li>□ FINES %</li></ul>	1st 6" ->- 2nd 6" OO 3rd 6" A	RECOVERY (IN) ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory t of sample b	DN AND CLASSIFICAT classification adjusted based on testing data and/or re-examination by field geologist/engineer)	ION	WATE CHAR DRILL LABO	R LEVELS, ACTER OF ING AND RATORY
SS 34  34  34  34  35  36  36  37  38  38  38  38  38  38  38  38  38	33 ×			53.1-	165		_fragments			Top of Forma	f Still Branch tion at a depth
Final Log B-4008	SS X		<b>A</b> 34-50/5" 1	48.7			SAND, silty (SAND), silty (SAN	SM)- Very dark greenis: Y), wet, very dense, fine ed, +HCL ated at 169.42 feet	h gray to	Water end of	
Final Log B-4008				SITE	Vo	ogtle	e Units 3 & 4 C	OL Project			
361 of 724						<b>.</b>	<u>Final</u> Log	<u> </u>		£	<u>5-4UU</u> 8



GF	ΩТ	ECHNICAL L		OJEC					JOB NO. SHEET NO				HOLE NO.
LOGGE		LOTHIOAL L	, ,		e Units	3 & 4	C	OL Project	ect 6141-06-0286 1 OF			4 COMPI	B-4009
LOGGE	וסט	A. Reimer		OOR		N 114	248	86.1 E 6211	156.9	1/29/200	17	2/2/2	
DRILLE	R	140 440444	D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
000111		Varren-A.E. Drillin			<b>C</b>	ME-7	50	3 ]	Inches		328848		164.9
GROUN 21	7.9	DEPTH/EL. GROUND ©  ♀ / • ↓ /	WATER SITE	Ξ:				Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	oro, GA
												<u> </u>	
盟.		N-VALUE (SPT)	N-COUNT	RECOVERY (in)	N L	FT	SS					NOTES	
SAMP. TYPE AND NO.	SAMPLE + O	WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	(ER)	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTION	ON AND CI	_ASSIFICAT	ION		R LEVELS, ACTER OF
AMP AND	SAI +	ATT. LIMITS %	3 2	00	LEV IN F	EPT	<b>3RA</b> I	( * = field (	classification adju- testing data and/or by field geologist/o	sted based on			NG AND ATORY
S		FINES %		묎	ш		)	of sample t	y field geologist/	engineer)		TESTIN	
SS		20 40 60 80	6-4-4	16	217.9 217.6			¬ SAND (SP) - '	Tonsoil co	ntains organi	cs a	Top of	Fill at a denth
1	<u>)</u> .	<b>A</b>	7-7-7	18	217.0	-		SAND (SP) - Topsoil, contains organics SAND, silty (SM) - Red (10R 4/6), damp, loose, fine to medium grained, nonplastic SAA except red (2.5YR 5/8), dry, medium dense, medium grained (0.33 feet)					eet Pornyyoll
	Ă.					_		SAA except re	ed (2.5YR 3	5/8), dry, med	dium	Group a	at a depth of
1 SS 2 SS 3			5-5-6	13		5—		SAA except re medium grain	ed (2.5YR 5	5/6), damp, fi	ine to	0.55 100	••
SS		<b>A</b>	4-8-7	7		-		SAA	ou, 10 // p1u				
4	4					-							
SS 5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<b>A</b> :	5-7-7	11		- 10		SAA					
ss		<b>A</b>	9-11-13	13		10-		SAA					
6	X			15		-		SAA					
ss	$\overline{\mathbf{x}}$	<b>A</b>	8-10-15	9		_		SAA except re (5YR 5/6), no	ed (2.5YR 5	5/6) and yello	owish red		
7						15—		(5 Y K 5/6), no	npiastic				
					200.9_	_							
ss			10-10-11	14		-		SAND silty	rlavev (SC	-SM)- Vellov	wish red		
8	X					20-		SAND, silty, 6 (5YR 5/6), dan medium grain	mp, mediur	n dense, fine	to		
					195.9_	-							
						_							
	X		11-12-13	11		25-		SAND, silty (6/6) and yello	SM)- Redd w (10YR 7	lish yellow (7 /6), damp, m	7.5YR edium		
					190.9	-		dense, fine to contains 3/4"	coarse gran	ned, nonplasi	tic,		
					190.9_								
SS 10	X		10-12-13	5		_		SAND (SP) - medium dense subrounded, n	Yellow (10	YR 7/6), mo	ist,		
10 2						30-		subrounded, n	onplastic	arse granicu,			
						_							
ss		<b>A</b>	6-8-8	9				SAA except y	ellow (10Y	R 7/6) and st	rong		
11						35—		SAA except y brown (7.5YR lignitic, conta	5/6), mois ns CLAY s	t to wet, slig seams up to l	htly 1/4" thick		
					180.9_								
ss		+-30	2-3-2	17		-		*CAND silty	(SM) Mai	tlad aliva va	llow		
12	X			1,		40-		*SAND, silty (2.5Y 6/6) and damp, loose, l	brownish	yellow (10Y	R 6/6),		
						-		uamp, 100sc, 1	ow plastici	• y			
						_							
SS 13			2-2-3	7		45 —		SAA except n brownish yello	ottled yellow (10YR o	ow (2.5Y 7/6 6/6)	and		
					170.0	<del>-1</del> 3 -							
					170.9_	_	14.41						
ss		<b>`</b>	6-5-5	0		_		NO RECOVI	ERY				
PREPAR	RED B	BY: A. TAYLOR	ı		SITE	V	ogtl	e Units 3 & 4 C		t		HOLE NO	
REVIEW	FINAL Log  362 of 724  Final Log												



GI		OTECHNICAL LOC	<u> </u>	OJEC ogtl		3 & 4	C	JOB NO.   SI DL Project   6141-06-0286	HEET NO	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" 75 2nd 6" 05 3rd 6" 25	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING	
14 SS 15	X	<b>A</b>	6-4-4	14	165.9_	55-		CLAY, silty (CL-ML)- Yellow (2.5Y 7, and reddish yellow (7.5YR 6/6), damp, n stiff to stiff, low plasticity	/6) nedium	
SS 16	X	<b>A</b>	7-9-8	16	160.9_	60-		SAND, silty, clayey (SC-SM)- Yellow (7/6), damp to moist, medium dense, fine medium grained, subrounded, nonplastic	10YR to	Water level depth at beginning of 1/30/07
SS 17	X		3-7-11	17	155.9_	65—		*SAND, with silt (SP-SM)- Very pale b (10YR 8/2), damp, medium dense, fine to coarse grained, -HCL	orown O	beginning of $1/30/07$ = 42.0 feet
SS 18	X	•	5-10-12	16.5		70-		SAA except very pale brown (10YR 8/2) pink (2.5YR 8/3), moist	) and	
SS 19	X	<b>A</b>	11-14-15	12		75—		SAA		
SS 20	X	<b>A</b>	6-7-7	11	136.4_	80-		SAA except very pale brown (10YR 8/2) pinkish white (5YR 8/2)	) and	Top of Utley
SS 21		•	50/0"	0	130.9_	85—		NO RECOVERY		Limestone at a depth of 81.5 feet
SS 22	X	<b>A</b>	11-12-8	17.5	125.4	90-		CLAY, silty, sandy (CL-ML)- Light yellowish brown (2.5YR 6/4), damp, ver low plasticity, fine to medium grained Sacontains shell fragments, +HCL	y stiff, AND,	
SS 23	X	<b>A</b>	12-24-25	19		95 —		*SILT (MH)- Greenish gray (GLEY1 5/5GY), damp, hard, fine grained SAND +HCL	),	Top of Blue Bluff Marl at a depth of 92.5 feet
SS 24	X	▲ O + <del>19</del> 9	9-11-14	22		100-		SAA except very stiff		
SS 25	X	•	50/6"	4	SITE	105-		SAA except greenish gray (GLEY1 5/5C hard		HOLENO
1					SILE	V <del>363 of</del>	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-4009</b>



	PROJECT   JOB NO.   SHEET NO.   Vogtle Units 3 & 4 COL Project   6141-06-0286   3 OI										
SAMP. TYPE AND NO.  AND NO.  SAMP. TYPE AND NO.  SAMP. TYPE  SAMP.	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING									
UD 1 □ ○+ ⊞ □ 24	SAA Pocket Penetrometer: >4.5 TSF	Pitcher									
SS 26 9-12-48 19.5	*SAA except dry to damp, hard, contains cementation										
SS 27 50/4" 5	SAA except contains some shell fragments										
SS 28 20 26-32-48 20	*SILT, with sand (MH)= Greenish gray (GLEY15/5GY), dry, hard, +HCL	beginning of 1/31/07 = 73.0 feet									
SS 29 50/3" 3	SAA except contains cementation										
SS 30 11-12-27 19.5	*CLAY (CH) - Greenish gray (GLEY1 7/5GY), dry to damp, hard, contains shell fragments, +HCL										
SS 31 10-28-50/4" 21	SAA except dry, no shell fragments										
SS 32 16-17-19 20	SAA 145—										
UD 2 23.2	SAA Pocket Penetrometer: >4.5 TSF	Pitcher									
SS 33   13-20-22   22	SAA except greenish gray (GLEY1 6/10Y)										
SS 34 P 9-13-18 21.5	*CLAY, sandy (CH)- Greenish gray (GLEY1 6/10Y), dry to damp, hard, +HCL										
SS   16-32-50/5"   16	SAND, silty, clayey (SC-SM)- Dark greenish  Vogtle Units 3 & 4 COL Project  Final Log	Top of Still Branch Formation at a depth of 162.0 feet HOLE NO. B-4009									



GEOTECHNICAL LO	G PROJECT Vogtle Units	3 & 4 COL Project	JOB NO. 6141-06-0286	SHEET NO.	HOLE NO. <b>B-4009</b>							
A N-VALUE (SPT)  O WATER CONTENT %  HATT. LIMITS %  FINES %  20 40 60 80	1st 6" \$\frac{2}{2}\$ 2nd 6" \$\frac{2}{2}\$ 3rd 6" \$\frac{2}{4}\$  RECOVERY (in)  ELEVATION IN FEET	G (* = field laboratory of sample	ON AND CLASSIFICAT classification adjusted based on testing data and/or re-examination by field geologist/engineer)	TION CH DF LA TE	OTES ON: ATER LEVELS, HARACTER OF RILLING AND BORATORY STING							
35	SITE	Vogtle Units 3 & 4 (	COL Project		LE NO.							
	Final Log B-4009											



GF	:O1	TECHNICAL LO	$\mathbf{C}$	OJEC					JOB NO.			HOLE NO.	
LOGGE			▼ '		e Units	3 & 4	CC	OL Project	6141-06-0286 1 OF			3 COMPL	B-4010
LOGGE	יט ט.	S. Woodham						67.6 E 6212	621249.0 1/25/2007			2/22/	
DRILLE			D	RILL	MAKE AND	MODE	L	HOLE DIAM	ETER	HAMMER SE	RIAL NUMB		TOTAL DEPTH
GROUN		Warren-A.E. Drilling  DEPTH/EL. GROUND WAT	ER SITI	E.	<b>C</b> :	ME-7	<u>50</u>	61	nches		328848		160.0
	19.1	DEF ITI/EE. GROUND WAT ▼ / ▼ /	LK Join	ـــ.				Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	oro, GA
				_								*	-
PE .	l .l	N-VALUE (SPT)	N-COUNT	/ (in)	N O L	ե	ဂ္ဂ					NOTES	
YT.O	SAMPLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ÆR	/ATI( FEE <sup>-</sup>	프	GRAPHICS	DESCRIPTIO	ON AND CL	_ASSIFICAT	ION	CHARA	R LEVELS, ACTER OF
SAMP. TYPE AND NO.	SA ⊣	⊢ ATT. LIMITS %		RECOVERY (in)	ELEVATION IN FEET	DEPTH IN	GRA	( * = field c laboratory t of sample b	lassification adjust esting data and/or y field geologist/o	sted based on re-examination engineer)		LABOR	NG AND ATORY
0)		☐ FINES %		꿉				•	, ,	,		TESTIN	IG
SS		20 40 60 80	5-6-7	18	219.1			SAND, silty (S	SM)- Yello	wish red (5)	7R 5/8),	Top of	Barnwell
SS	M 4	<b>A</b>	7-5-6	18				SAA	iense, fine g	grained		0.0 feet	at a depth of
1 SS 2 SS 3			2-2-3	18		5-		SAA except lo	oose				
SS 4	4	<b>\</b>	3-4-5	15		-		SAA except m	edium den	se			
SS 5	X	<b>A</b> .	5-7-8	17		10-		SAA					
SS 6	X	<b>A</b>	11-15-12	18		-		SAA					
SS 7	X	<b>A</b>	13-13-15	20		15—		SAA except re	ed (2.5Y 5/8	8), damp			
					202.1_	-							
SS 8	X	Å	8-9-10	14		20-		SAND, silty, 6 5/6), damp, mo	clayey (SC- edium dens	-SM)- Red (2 e, fine grains	2.5YR ed, low		
					197.1_		4						
SS 9		<b>A</b>	7-7-9			25-		SAND, silty (\$5/8), damp, me	SM)- Yello edium dens	wish brown e, fine to me	(10YR dium		
					192.1_	23		grained					
SS 10	X	<b>A</b>	5-6-9	18		20		SAND, silty, obrown (10YR) to medium gra	clayey (SC- 5/8) damp	-SM)- Yellov medium de	wish		
10						30-		to medium gra	ined	,	,		
SS 11		<b>.</b>	4-3-5	18		-		SAA except by loose, fine gra	rownish ye	llow (10YR	6/6),		
11					100 1	35-		1005e, iiiie gia					
					182.1_								
SS 12		<b>`</b>	3-4-5	22		40		CLAY, with s	and (CL-N	ML)- Yellow	(2.5Y rained		
14					177.1_	40-		SAND	, 10 w pias				
					1//.1_								
SS 13		-	5-4-6	19		45-		SAND, clayey damp, medium	(SC)- Yel n dense, fin	low (2.5Y 7/e to coarse g	(8), rained		
					172.1_								
SS		<b>A</b> 🗆	6-4-6	15				SAND, silty, o	clayey (SC- edium dens	-SM)- Yellov e, fine grains	w (10YR ed		
		BY: A. TAYLOR	•		SITE	V	ogtl	e Units 3 & 4 C	OL Projec			HOLE NO	-4010
REVIEV	v⊧D E	BY: P. DEPREE				366 of	<del>72</del> 4	Final Log	<u> </u>			D	-4010



GE	OTECHNICAL LO	<u> </u>	OJE(		3 & 4 C	OL Project   JOB NO.   SHEET NO   2 OF	
SAMP. TYPE AND NO. SAMPI F	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" T	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 60 80			1671	-//		
SS 15		6-7-9	17	167.1_	55—	SAND, silty (SM)- Yellow (10YR 7/6), damp, medium dense, fine grained, -HCL	
SS 16	<b>A</b>	10-11-16	12		60-	SAA except fine to medium grained	
SS 17		13-10-8	15	157.1_	65-	SAND, with silt (SP-SM)- Yellow (2.5Y 7/6), moist, medium dense, fine to medium grained, -HCL	
SS X	7	6-8-8	18		70-	SAA	
SS 19	<b>A</b>	9-10-16	20	147.1_	75—	SAND, silty (SM)- Pale yellow (2.5Y 8/3), damp, medium dense, fine grained, -HCL	
SS 20	<b>A</b>	8-7-12	18		80-	SAA	
SS 21		50/2"	1	137.1_	85	CLAY, sandy (CL)- Light olive brown (2.5Y 5/3), damp, hard, low plasticity, fine to coarse grained SAND, contains shell fragments, +HCL	Top of Utley Limestone at a depth of 82.0 feet Loss of circulation
SS 22	<b>A</b>	17-27-30	24	132.1_ 129.3_	90-	CLAY (CL) - Light yellowish brown (2.5Y 6/4), damp, hard, medium plasticity, contains cemented shell fragments, +HCL CLAY, with sand (CL) - Greenish gray (GLEY1 5/5GY), damp, hard, medium plasticity, contains SAND seams, +HCL	Top of Blue Bluff Marl at a depth of 89.75 feet
SS 23		50/2"	3	122.1_	95	CLAY (CL) - Greenish gray (6/5GY), damp, hard, low plasticity, contains cementation, +HCL	Installed 6" steel casing to a depth of 97.0 feet Water level depth at beginning of 2/20/07 = Ground surface
SS 24	<b>A</b>	13-23-24	20		105	SAA except greenish gray (GLEY1 5/10Y), contains shell fragments	- Oroung Surface
				112.1_ SITE	Vog	le Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4010</b>



GE	EC	TECHNI	CAL	LOC	•	OJE(		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 of	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (  ○ WATER CO  + ATT. LIMIT  □ FINES %  20 40	ONTENT	I	lst 6" -5 2nd 6" 00 3rd 6" 11	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 25	X	<del>-</del> -	+		16-50/5"	10	107.1	110-		*SILT, with sand (MH)- Greenish gray (GLEY1 6/5GY), damp, hard, very fine grained SAND, +HCL	
UD 1						17.5		- - 115—		CLAY (CL) Pocket Penetrometer: > 4.75 TSF	Pitcher
UD 2		Pitcher  Water level depth at end of 2/20/07 = 22.0									
SS 26	X				32-32-50/5"	18	92.1_	125-		SAA except greenish gray (GLEY1 6/10Y), damp, hard, low to medium plasticity	feet  Water level depth at beginning of 2/21/07 = 22.0 feet  End logging by S.
SS 27	X				36-50/5"	12	72.1_	130-		*CLAY (CH)- Greenish gray (GLEY1 5/5GY), damp, hard, contains cemented fragments +HCL	Woodham. Begin logging by D. Brooks.
UD 3						19		135—		SAA	Pitcher Water level depth at end of 2/21/07 =
SS 28	X	4	<b>\</b>		22-24-26	22		140-		SAA	Ground surface
SS 29	X	+6 <b>1</b>	+ □		10-11-23	21		- - 145—		SAA except greenish gray (GLEY1 6/10Y)	
SS 30	X		•		19-33-40	20		150-		SAA	
SS 31	X	•			20-21-26	18		155—		SAA except light greenish gray (GLEY1 7/10Y)	
SS 32	X		<b>A</b>		20-26-32	10	62.1_ 59.1_	160-		SAND, with silt (SP-SM)- Dark greenish gray (GLEY1 4/10Y), damp, very dense, fine to medium grained, nonplastic, -HCL  Boring terminated at 160 feet	Top of Still Branch Formation at a depth of 157.0 feet
			<u> </u>				SITE	V 368 of		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4010</b>



GE	TECHNICAL I DC	PROJEC Vogtl		3 & 4 CO	JOB NO. SHEET NO. <b>DL Project</b> 6141-06-0286 1 OF				HOLE NO. <b>B-4011</b>	
LOGGED	) BY		RDINATES				BEGUN		COMPLETED	
DRILLER	S. Woodham	DRILL	MAKE AND		3.1 E 62123 HOLE DIAME		1/25/200 HAMMER SE		2/5/20 SER	<b>007</b> TOTAL DEPTH
	Warren-A.E. Drilling			ME-750	3 Iı	nches		328848		150.0
GROUNE 219	$\nabla$ /	SITE:		,	Vogtle Electr	ic Gene	erating Pla	ant _ Wa	vnesho	ro GA
	/··· ¥ /				vogue Electi	ic Gene	Tating I is	ant va	ynesbo	10, 071
SAMP. TYPE AND NO. SAMPI F	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  ▲ 20 40 60 80	3rd 6" \( \frac{2}{3} \)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIOI (* = field cla laboratory tes of sample by	N AND CL ssification adjus sting data and/or field geologist/e	ted based on	ION		LEVELS, CTER OF IG AND ATORY
SS	4-3-8		217.1	-111	SAND, silty (S yellowish brow dense, fine grai SAA except yel	M)- Red ( n (10YR 5	2.5YR 4/6) a	ınd dium	Top of B Group at	Barnwell a depth of
1 SS X SS 3	9-9-9	18			dense, fine grai SAA except yel	ned llowish bro	own (10YR 5	5/6)	0.0 feet	1
$\begin{bmatrix} \frac{1}{3} \\ \frac{1}{3} \end{bmatrix}$	3-4-5	5 15		5—	SAA except dan	mp, loose				
SS 4	2-2-5	5 16			SAA except stre	ong brown	n (7.5YR 5/6)	)		
SS 5	8-12-	16 18	200.6	10-	SAA except yel red (2.5YR 4/6)	llowish bro ), medium	own (10YR 3 dense	5/6) and		
ss	10-10-	13 16	208.6_	10	<b>SAND, silty, cl</b> (5YR 5/6), dam					
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	6-12-	17 18			SAA except fin	-		gramed		
7 SS 8	5-7-9	) 18		15—	SAA except yel					
SS 9	5-6-9	16	192.1	25	SAA					
SS 10	3-4-5	5 15		30-	CLAY, silty (C damp, stiff, low	CL-ML)- Y plasticity	Yellow (2.5Y	7 7/6),		
SS 11	3-4-5	5 15	182.1	35—	SAA					
SS 12	5-7-1	1 18		40-	SAND, silty, cl 7/6), damp, med	ayey (SC-dium dens	SM)- Yellove, fine graine	v (2.5Y ed		
SS 13	4-3-4	18	177.1_ 172.1_	45	CLAY, with sa damp, medium SAND	and (CL)- stiff, low p	Yellow (2.5 plasticity, fin	Y 7/6), ne grained		
ss	4-8-1	1 16		- 1	*SAND, with s	ilt (SP-SN	1)- Yellow (2 e, fine grains	2.5Y ed, -HCL		
	ED BY: A. TAYLOR ED BY: P. DEPREE		SITE	Vogtle	Units 3 & 4 CO Final Log	L Project	t	-,	HOLE NO	4011
	LD DI.I. DEI INEL			369 of 724	I mai Lug				ש	1011



GE		OTECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	C	JOB NO.   SI DL Project   6141-06-0286	HEET NO. <b>2</b> OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - 7 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING	
SS 15	X		7-10-10	15		- - - 55—		SAA		
SS 16	X	<b>A</b>	11-18-15	14	158.1_	60-	<i>'''''</i>	SAA except dense		
SS 17	X	<b>A</b>	4-7-8	24	150.1	65—		CLAY, with sand (CL)- Pale yellow (5° damp, stiff, low plasticity, +HCL	Y 8/4),	
SS 18	X	<b>A</b>	14-14-17	24	152.1_	70 <del>-</del>		SAND, clayey (SC)- Pale yellow (5Y 8/2 damp, dense, fine to medium grained, coshell fragments, +HCL	2), ntains	Loss of circulation at
SS 19	X	<b>A</b>	9-12-18	18	147.1_ 142.1_	- - 75 —		SAND, silty (SM)- Pale yellow (5Y 7/3) damp, medium dense, fine to medium gra-HCL	), ained,	a depth of 71.0 feet
SS 20	×		50/3"	3	142.1_	80-		CLAY (CL) - Olive brown (2.5Y 4/3), dand, low plasticity, -HCL	amp,	
SS 21	X	•	28-50/5"	7	136.1_	- - 85 —		CLAY, sandy (CL)- Greenish gray (GL 5/5GY), dry, hard, low plasticity, +HCL	EY1	Top of Blue Bluff Marl at a depth of 83.0 feet
SS 22	X	<b>A</b>	24-25-30	24	132.1_	- - 90-		*SILT, with sand (MH)- Greenish gray (GLEY1 5/10GY), dry, hard, +HCL		End logging by S. Woodham.
SS 23	X	0 +-▲+□	26-32-31	16		- - 95—		SAA		Woodham. Begin logging by A. Reimer.
SS 24	×	•	50/3"	3		100		SAA except contains cementation		
SS 25	$\boxtimes$	•	21-50/4"	9		105—		SAA except contains shell fragments up in diameter	to 1/4"	
					SITE	V 370 of	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-4011</b>



GE	0	TECHNICAL LO		OJEC ogtl		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 OF		HOLE NO. <b>B-4011</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6"00 3rd 6" 1x	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTE: WATE CHAR DRILL	S ON: R LEVELS, ACTER OF ING AND RATORY
SS 26	X		30-50/2.5"	10		110-		SAA except damp		
SS 27	X		22-41-50/4"	16		- - 115-		SAA except dry to damp, no shell fragments		
SS 28	×		50/3"	3.5		120-		SAA except dry		
SS 29	X	<b>A</b>	17-17-31	21		125-		SAA except dry to damp		
SS 30	×		50/5"	8		130-		SAA		
SS 31	X	<b>,</b>	25-29-31	23		135—	-	SAA		
SS 32	X	<b>A</b>	18-27-28	19		140-		SAA except greenish gray (GLEY1 6/10Y), dry		
SS 33	X	<b>A</b>	18-22-34	24		145-		SAA		
SS 34	X	<b>A</b>	19-30-40	18	72.1_ 69.1_	150-		SAND, silty, clayey (SC-SM)- Greenish black (GLEY1 3/10Y), damp, very dense, -HCL Boring terminated at 150 feet	Top of Forma of 147	Still Branch tion at a depth 0 feet
					SITE			V. b. 4.4.4.60V. 7	1101 5 11	
					SIIE	V <del>371 of</del>		e Units 3 & 4 COL Project Final Log	HOLE N	o. 8 <b>-4011</b>



GE	OTECHNICAL LO	<u> </u>	OJEC		3 & 4	CC	OL Project	JOB NO.	06-0286	SHEET NO.		HOLE NO. <b>B-4013(C)</b>
LOGGED	) BY			DINATES	<u> </u>		2 I I I I I I I I I I I I I I I I I I I	0111	BEGUN	1 01	COMP	
DDII LED	G. Pillappa		DII I				12.7 E 6210		2/15/200			2007
DRILLER	Towe-MACTEC	D	RILL	MAKE AND	модеі <b>МЕ-5</b> :		HOLE DIAM	nches		RIAL NUMB 337153	EK	165.0
GROUNE	EL. DEPTH/EL. GROUND WAT	ER SITI	E:	Cı	WIL-5.	30	01	iiciics		337133		103.0
222	2.2 💆 /						Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesb	oro, GA
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" - <del>7</del> 2nd 6" O 3rd 6" ユ	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field el laboratory te of sample by	ON AND CL lassification adjusting data and/or or field geologist/or	sted based on	ION	CHAR/ DRILLI	R LEVELS, ACTER OF NG AND RATORY
SS	20 40 60 80	4-7-9	11	222.2	-	স্বর	SAND cilty (S	M) - Dark	gravich brov	vn (2.5V	Top of	Barnwell
1 SS 2 SS 3	<b>A</b>	4-4-3 3-2-6	13		-		SAND, silty (\$4/2), damp, me contains GRA' SAA except ye fine grained SAA except ye	edium dens VEL fragm ellowish rec ellowish rec	e, low plasticents d (5YR 5/6),	loose,	Group 0.0 feet	at a depth of
	<b>A</b>	4-4-6	10		5-		SAA except ye	ellowish br	own (10YR :	5/6)		
SS	<b>^</b>	2-2-2	8	211.5	10-		SAA except str	rong brown	n (7.5YR 5/6	)		
	<b>A</b>	3-4-8	12	211.7_	10 —		CLAY, silty w 4/8), pinkish w yellow (10YR	ith sand (	<b>CL-ML)-</b> Re 8/2), and bro	 ed (10R wnish		
SS X	<b>A</b>	9-17-18	16	209.2_	15—		yellow (10YR fine grained SAND, clayey 5/8), damp, der			1		
SS X	<b>A</b>	11-14-15	16		-		SAA except str					
SS S	<b>A</b>	14-20-16	16		20		SAA except ye CLAY seams	ellowish re	d (5YR 5/8),	contains		
SS 10	•	6-9-19	18		_		SAA except re grained	d (2.5YR 4	4/8), fine to r	nedium		
SS 11	<b>A</b>	16-17-12	12		25—		SAA except ye	ellowish re	d (5YR 5/8)			
SS 12	<b>A</b>	5-7-9	14		-		SAA					
SS 13	<b>A</b>	5-6-6	14		30-		SAA except br	own (7.5Y	R 5/3)			
SS 14	<b>A</b>	5-6-6	13.5				SAA except str grained, contain	rong brown ns trace ph	n (7.5YR 5/6 osphate grai	), fine ns		
SS 15	^	5-6-6	10.5	186.2	35		SAA except ye	ellowish br	own (10YR :	5/8)		
SS 16	<b>1</b> •	4-4-5	18	100.2_			*CLAY, sand (10YR 6/8), da plasticity	y (CL)- Bi imp, stiff, f	ownish yello ine grained,	ow low		
SS 17	^	2-4-4	18		40-		SAA except br medium stiff, o	ownish yel contains tra	llow (10YR of the phosphate	6/6), e grains		
SS 18	^	2-4-4	18				SAA					
SS 19	_	3-4-5	18	176.7_	45-		SAA except st	iff 				
SS 20 SS V	<b>A</b>	3-4-6 6-8-8	18		-		SAND, clayey 7/6), damp, loc plasticity, cont fragments and SAA except years.	(SC)- Verose, fine to ains CLAY	y pale brown medium gra seams and grains	n (10YR ined, low trace shell		
$\vdash$ $\vdash$ $\vdash$	ED BY: A. TAYLOR			SITE	T/		SAA except yee				HOLE N	O.
	ED BY: P. DEPREE				V (	ogui	Final Log		•			1013(C)



GE	OTECHNICAL LOC		OJEC ogtl		3 & 4	· C(	JOB NO.   SHEET   6141-06-0286   2	NO. HOLE NO. OF 4 B-4013(C)
SAMP. TYPE AND NO.	I II	1st 6" - 7 2nd 6" O 3rd 6" - 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
21 SS \	20 40 60 80	5-6-7	12.5				SAA	
22 Z SS N 23 Z	<b>A</b>	4-6-6	13		-		SAA	
SS 24 2	<u> </u>	4-6-10	17.5		55 — -		SAA except pale yellow (2.5Y 7/3)	
SS N	<b>A</b>	7-9-11	11		-		SAA	
SS 26	<b>^</b>	6-6-7	10		60-		SAA except pale yellow (2.5Y 7/4), fine grained, contains trace phosphate grains, -HCI	
SS 27	<b>^</b>	4-6-7	12		-		SAA except pale yellow (5Y 8/4)	
SS 28	<b>A</b>	6-7-10	13		65 — -			
SS 29	<b>A</b>	7-6-3	14.5	151.7	- - 70-		SAA except olive yellow (2.5Y 6/6)	
SS 30	<b>^</b>	2-3-3	18	151.7_	70 — - -		CLAY, sandy (CL) - Yellow (2.5Y 8/6), damp, medium stiff, low plasticity, fine grained, contains SAND seams and trace shell	
SS 31	<b>A</b>	2-3-4	18	1467	75-		grained, contains SAND seams and trace shell fragments and phosphate grains, -HCL SAA except pale yellow (2.5Y 8/4)	
SS 32	<b>A</b>	9-11-10	10	146.7_	/3 - -		SAND, clayey (SC)- Brownish yellow (10YR 6/6), damp, medium dense, fine grained, low	
SS 33		8-10-9	8		80-		plasticity, contains trace phsphate grains, -HCl SAA except pale yellow (2.5Y 8/3)	
SS 34	<b>A</b>	4-5-6	9		-		SAA except yellowish brown (10YR 5/6), contains light brownish gray (10YR 6/2) SAN	
SS 35		5-2/12"	2	136.7_	85-		seam SAA except dark yellowish brown (10YR 4/6)	
SS 36	<b>^</b>	5-5-7	18		-		*CLAY, silty (CL-ML)- Pale olive (5Y 6/4), dry to damp, stiff, low plasticity, contains trace	Loss of circulation at a depth of 85.0 feet
SS 37		21-18-50/4"	18	133.7_	90-		shell fragments and phosphate grains, +HCL  *CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/10GY), dry to damp, very hard, lov plasticity, contains trace shell fragments and phosphate grains, +HCL	Water level depth at end of 2/15/07 = 37.0
				128.2_	95—			feet Installed 6" steel casing to a depth of 97.0 feet (Installed by Graves Drilling)
UD 1			0	121.7_	100-		NO RECOVERY	End drilling by Towe-MACTEC Begin drilling by Banks-MACTEC using same drill. Pitcher
UD 2 SS 38	0	15-50/6"	28.5		105—		CLAY, silty (CL-ML)- Dark greenish gray (GLEY1 4/5GY), damp, hard, low plasticity, contains trace shell fragments and phosphate grains, +HCL Pocket Penetrometer: >4.5 TSF SAA except dark greenish gray (GLEY1 4/10GY)	Pitcher
				SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4013(C)</b>



GE	C	TECHI	NIC	AL LO		OJE(		3 & 4	· C(	OL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO		HOLE NO. B-4013(C)
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALU  ○ WATER  + ATT. LIN  □ FINES % 20 40	CONT MITS %	ΓΕΝΤ % %	1st 6" -z 2nd 6" C 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field cl laboratory te	ON AND CLASSIFICAT assification adjusted based on esting data and/or re-examination field geologist/engineer)	ION	CHARA	LEVELS, CTER OF NG AND ATORY
SS 39	X				12-18-50/2"	18		- - 110-		SAA except da 4/5GY)	ark greenish gray (GLE	Y1		
SS 40	X		<b>\</b>		19-17-24	18		-		SAA except co	ontains cementation			
SS 41	×				9-50/1"	11		- - 115		SAA except gr	reenish gray (GLEY1 5/	/5GY)		
SS 42	×				50/6"	9		-		SAA				
SS 43	X				15-50/3"	14		120-		SAA				
SS 44	X				24-50/6"	17		-		SAA except no	cementation			
SS 45	×				50/4"	7		125-		SAA except gr	reenish gray (GLEY1 5)	/10GY)		
SS 46	X		<b>A</b>		16-15-37	18		-		SAA				
UD 3		0				22.5		130-		SAA except gr contains cemer	reenish gray (GLEY1 5) ntation ometer: >4.5 TSF	/5GY),	of casin	evel depth at /28/07 = Top
SS 47					50/1"	3		-		SAA	micter. > 4.5 151		Pitcher Water le beginnin 7.0 feet	evel depth at ng of 3/1/07 =
SS 48	X		<b>\</b>		17-20-21	18		135-		SAA			7.0 1000	
SS 49	X	<b>A</b>			16-14-24	18		-		SAA except dr cementation	y to damp, contains no			
SS 50	X		<b>A</b>		20-24-30	18		140-		SAA				
SS 51	X				18-50/6"	13		-		SAA				
SS 52	×				50/5"	6		145-		SAA except co	ontains cemented SANI	) seams		
SS 53	X		<b>A</b>		18-21-24	18		-		SAA				
SS 54	X	<b>A</b>			7-9-28	18		150-		SAA			Water le	evel depth at
SS 2 55	X				24-50/3"	14		-		SAA			end of 3 casing	/1/07 = Top of
SS 56	X		<b>A</b>		14-21-23	18		155-		SAA			Water le beginnin 36.0 fee	evel depth at ng of 3/5/07 = t
SS 57	X	<b>A</b>			10-14-17	18	64.2_	- -		SAA				
SS 58			:		50/0"	0	62.2_	160-	940	NO RECOVE			Top of S	Still Branch
SS 59	X				21-29-50/3"	18		- -		SAND, silty (S (GLEY1 3/10C) grainedHCL	SM) - Very dark greenis GY), moist, very dense,	h gray medium	Formati of 160.0	on at a depth
SS	X	<b>A</b>			13-17-15	16	SITE	V	ogtl	SAA except de e Units 3 & 4 CC	onse OL Project		HOLE NO	
								374 of	724	Final Log	5		В-4	013(C)



GEOTECHNICAL LOG	PROJECT		3 & 4	CC	JOB NO.  OL Project 6141-06-0	0286 SHEET N 4 0	O. HOLE NO. B-4013(C)
A N-VALUE (SPT)  ON ON ON WATER CONTENT %  HATT. LIMITS %  FINES %  20 40 60 80  60	2nd 6" S 3rd 6" Z RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLAS  (* = field classification adjusted be laboratory testing data and/or re-ex-of sample by field geologist/engine	ased on amination eer )	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
		57.2-	165		Boring terminated at 165.0 fe	eet	
		SITE	V:		Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-4013(C)</b>



GE	ΞΟ	TECHNICAL LOG	<u> </u>	OJEC		3 & 1		OL Project	JOB NO.	06-0286	SHEET NO	•	HOLE NO. <b>B-4014</b>
LOGG			* (		DINATES	3 & 4		JL I Toject	0141-0	BEGUN	1 OF	COMPLE	
DRILL	FD	D. Brooks	DI	DII I	MAKE AND	N 114		82.0 E 6209 HOLE DIAM		1/17/200 HAMMER SE		1/30/2	2 <mark>007</mark> TOTAL DEPTH
DIVILL	LIX	Christian-MACTEC		IXILL		ME-			nches		200587	LIX	158.6
GROU		$\nabla$ /	R SITE	Ξ:				Vogtle Fleet	wia Cana	nating DI	ant Wa		CA
	20.	<i>1</i>						Vogtle Elect	ric Gene	erating Pi	ant - wa	ynesdo	ro, GA
SAMP. TYPE AND NO.	SAMPLE	O WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 0 75 2nd 6" O 3rd 6" ¬	RECOVERY (in)	ELEVATION IN FEET OF SECTION S	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory t of sample by	DN AND CL lassification adjus esting data and/or y field geologist/e	ted based on	ION		LEVELS, CTER OF IG AND ATORY
SS	$\forall$		2-5-5	18	220.7			SAND, with si (5YR 5/8), dar	ilt (SP-SM	)- Yellowish	red	Top of E	Barnwell a depth of
SS 2			2-8-10	14		-		SAA except st dense	rong browr	inc grained i (7.5YR 5/8	), medium	0.0 feet	a depth of
SS 2 SS 3	X	<b>A</b>	3-4-5	12		-		SAA except st	rong browr	n (7.5YR 4/6	), loose		
SS		<b>A</b>	2-3-4	14	214.7_	5-		*SAND (SP)- damp, loose, fi	Strong bro	wn (7.5YR 5	<del>5</del> /8),		
4			1-3-4	8		-			ine to medi	um grained			
SS 5	X		1-3-4	0	210.2_	10-		SAA 					
SS 6			8-15-22	15	207.7	-		*SAND, claye 5/8), damp, de	y (SC)- Ye	ellowish red medium gra	(5YR ined, low		
SS	$\square$	<b>A</b>	9-17-24	15	207.7_	-		plasticity SAND, with s (7.5YR 6/8), d					
7	H					15-		(7.5YR 6/8), d grained, nonpl	amp, dense astic	fine to med	lium		
SS 8	X	<b>;:</b> □▲───+	5-12-18	15	203.7_ 198.7	20-		* <b>SAND, claye</b> 4/6), damp, de	y (SC)- Yense, fine gr	ellowish red ained, low p	5YR lasticity		
SS 9	X	<b>A</b>	6-10-14	10	193.7_	25-		SAND, with s (7.5YR 6/8), d grained, nonpl	ilt (SP-SM amp, medicastic	)- Reddish y um dense, m	ellow edium		
SS 10	X	<b>A</b>	3-6-6	13		30-		*SAND, silty, brown (10YR grained, low p	clayey (SC 5/8), damp lasticity	C-SM)- Yello , medium de	owish nse, fine		
SS 11	X	<b>A</b>	5-8-7	14	183.7	35-		SAA except m	edium to co	oarse grained	l		
SS 12		▲ ++	2-4-7	15		40-		*SILT, sandy 6/8), damp, sti	(MH)- Bro	ownish yello ned, -HCL	w (10YR		
SS 13	X	<b>A</b>	3-5-6	18	178.7_ 173.7_	45 —		SAND, with significant yellow (10YR fine to fine gra	ilty clay (S 6/8), damp lined, low p	P-SC)- Brow , medium de plasticity	vnish nse, very		
SS	X	<b>A</b>	4-5-6	14		-		* <b>SAND, claye</b> (10YR 6/8), da	y (SC)- Br	ownish yello	ow e to		
		D BY: A. TAYLOR			SITE	V	ogtl	e Units 3 & 4 Co	OL Project		· 10	HOLE NO	4014
KEVIE	vv⊏L	D BY: P. DEPREE				376 of	724	Final Log	<u> </u>			ъ-	7017



GE	C	OTECHNICAL LOG	•	OJEC ogtl		3 & 4	· C(	JOB NO. SHEET NO <b>6141-06-0286 2</b> OR	
SAMP. TYPE AND NO.	SAMPLE		lst 6" -4 2nd 6" O 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14						-		medium grained, low plasticity, -HCL	
SS 15	X	<b>A</b>	3-4-9	16		55—		SAA	
SS 16	X		6-6-9	14		60-		SAA	
SS 17	X	<b>A</b>	7-8-10	15	154.2_	65—		SAA except yellow (10YR 7/8)	
SS 18	X	<b>A</b>	3-5-7	16		70—		SAND, with clay (SP-SC)- Yellow (2.5Y 8/6), damp, medium dense, fine to medium grained, contains shell hash, +HCL	
SS 19	X	<b>A</b>	11-13-25	8	148.7_	- - 75—		*SAND, with clay (SP-SC)- White (10Y 8/1), damp, dense, low plasticity, contains shell hash, +HCL	
SS 20	×		50/3"	0	143.7_	80-		NO RECOVERY	Top of Utley Limestone at a depth of 77.0 feet
SS 21	X	<b>A</b>	25-10-7	13	138.7_	85—		*SHELL HASH, silty, clayey with sand (GC-GM) - Very pale brown (10YR 8/3), wet, medium dense, +HCL	Installed casing to a depth of 90.0 feet
SS 22	X		17-50/5"	8	133.5_	90-		*SILT (MH) - Greenish gray (GLEY2 5/5BG), wet, hard, contains cemented fragments +HCL	Top of Blue Bluff Marl at a depth of 87.2 feet
SS 23	X	<b>A</b>	35-32-35	18		95—		SAA except damp	
SS 24	X		18-50/3"	10		100-		SAA	Water level depth at end of 1/18/07 =
SS 25	X	0+-+4	8-24-40	20	110.5	105—		SAA	end of 1/18/07'= Ground surface  Water level depth at beginning of 1/22/07 = 59.0 feet
		: : : :			113.7_ SITE	V 377 of		e Units 3 & 4 COL Project Final Log	HOLE NO. B-4014



GE	EC	TECHNICAL LO	•	OJEC ogtl		3 & 4	· C(	JOB NO. SHEET NO. OL Project 6141-06-0286 3 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - 75 2nd 6" - 20 3rd 6" - 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	×		50/2"	0	108.7_	- 110-		NO RECOVERY	Water level depth at end of 1/22/07 = Ground surface
SS 27	X	<b>A</b>	24-40-34	21		- 115—		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/10GY), damp, hard, low plasticity, +HCL	Water level depth at beginning of 1/23/07 = 69.8 feet
SS 28	X	<b>A</b>	9-15-36	22		120-		SAA	
SS 29	$\boxtimes$		36-50/2"	8		125—		SAA	
SS 30	×		50/5"	10		130-		SAA	
SS 31	X		9-18-50/5"	18	22.5	135—		SAA except greenish gray (GLEY1 6/10Y)	
SS 32	X	•	13-35-50/2"	18	83.7_	140-		SILT (ML) - Greenish gray (GLEY1 6/10Y), damp, hard, nonplastic, +HCL	Water level depth at end of 1/23/07 =
SS 33	X	<b>A</b>	19-21-25	18		- - 145—		SAA	Water level depth at end of 1/23/07 = Ground surface End loggng by D. Brooks. Begin logging by M. Harvey.
SS 34	X	<b>A</b>	12-21-19	18		- - 150—		SAA except contains some shell hash	
SS 35	X	*	13-20-22	18		- - 155—		SAA	
SS 36			50/1"	1	64.0_ 62.2_	- -		SAND (SP) - Bluish gray (GLEY2 5/10B), wet, very dense, -HCL Boring terminated at 158.58 feet	Top of Still Branch Formation at a depth of 156.75 feet
					SITE	V 378 of		Final Log	HOLE NO. <b>B-4014</b>



GF	=O	TECHNICAL LO	<b>1</b> C	OJEC		2.0		O. D	JOB NO.	06.006	SHEET NO		HOLE NO.
LOGG			•		e Units DINATES	3 & 4	CO	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF		B-4015 LETED
		S. Woodham		2010		N 114	127	73.0 E 6211	115.2	1/19/200	07		2007
DRILL	ER			RILL	MAKE AND	MODE	L	HOLE DIAM	IETER	HAMMER SE	ERIAL NUMB		TOTAL DEPTH
CDO	ND 1	Warren-A.E. Drilling	ATED OF	F.	C	ME-7	<b>750</b>	3 1	Inches		328848		155.0
GROU 2	20.	$\nabla$ /	ATER SIT	<b>E</b> :				Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	oro, GA
												·	
SAMP. TYPE AND NO.	щ	▲ N-VALUE (SPT)	N-COUNT	RECOVERY (in)	NOT:	FF	SS					NOTES	S ON: R LEVELS,
₽.Ö	SAMPLI	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	VEF	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTIO	ON AND CL		ION	CHARA	ACTER OF NG AND
SAN	S/	+ ATT. LIMITS %		EC		DEP	GR	laboratory to	testing data and/or by field geologist/o	r re-examination engineer )			RATORY
		☐ FINES % _ 20		œ	220.1							ILOIII	NG
SS 1	M	<b>^</b>	1-4-7	17				SAND, silty (5/6), damp, m	SM)- Stron	g brown (7.5	SYR ed	Top of Group	Barnwell at a depth of
SS 2	$\mathbb{X}$	f	8-12-11	16		-		SAÁ		, ,		0.0	•
SS 3	X		8-10-10	18		5-		SAA					
SS 4		<b>A</b>	2-3-3	18		-		SAA except lo	oose				
SS 5	X	^	2-4-5	17		10-		SAA except y		·	,		
SS 6		^	4-6-8	18		-		SAA except re 10YR 7/6), me	ed and yello edium dens	ow (2.5YR 4)	/8 and		
SS	$\forall$	<b>A</b>	6-10-12	22		-		SAA					
7	H					15-							
					203.1_	-							
SS 8	X	^	13-16-16	20		20-		SAND, with s (5YR 5/8), day grained	silt (SP-SM mp, dense,	)- Yellowish fine to medi	red um		
						-		8					
SS	$\mathbb{H}$	<b>A</b>	7-9-10	12		-		SAA except li medium dense	ght vellowi	ish brown (1	0YR 6/4),		
9	Н					25-		medium dense			,,		
					193.1_								
SS	$\forall$	<b>A</b>	6-8-8	18		-		<b>SAND, silty (</b> 6/6), damp, m	SM)- Brow	nish yellow	(10YR		
10	H					30-		6/6), damp, megrained	eaium dens	se, fine to me	atum		
					188.1_	-							
SS	$\forall$	<b>A</b>	4-5-6	22				CLAY, silty v yellow (10YR	with sand (	CL-ML)- Bi	rownish lasticity		
11	П					35-		y0110W (101K	. o, o,, uanip	,, sum, 10w p	iusticity		
						-							
SS 12	A	<b>A</b>	3-5-5	20		40		SAA					
12	П				170 1	40-							
					178.1_	-							
SS 13		<b>A</b>	4-4-7	21		45 <del>-</del>	$\  \ $	SILT, sandy ( (10YR 6/6), d	( <b>ML)-</b> Mos amp, stiff. l	stly brownish low plasticity	yellow		
					173.1	43-	$\left\{ \left  \cdot \right  \right\}$		., ,				
					1 / J.1_	-	圳						
SS	$\mathbb{X}$	•	4-3-4	21		-		SAND, silty, 6 7/8), damp, lo	clayey (SCose, fine gr	-SM)- Yello ained, low p	w (2.5Y lasticity,		
		D BY: A. TAYLOR D BY: P. DEPREE			SITE	V	ogtl	e Units 3 & 4 C Final Log	OL Projec	t		HOLE N	o. 5 <b>-4015</b>
I VE VIE	**L	D D I I I I I I I I I I I I I I I I I I			<u> </u>	379 o	<del>72</del> 4		<u> </u>			D	1013



GE	ΞC	OTECHNICAL L	C	OJE(		3 & 4	l C(	JOB NO. SHEET 6141-06-0286 2	NO. OF <b>3</b>	HOLE NO. <b>B-4015</b>
SAMP. TYPE AND NO.	SAMPLE	☐ FINES %	1st 6" - 7 2nd 6" 00 3rd 6" - 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NO WA CH, DRI LAE	TES ON: TER LEVELS, ARACTER OF ILLING AND BORATORY STING
14		20 40 60 80			168.1_	-		-HCL		
SS 15	X	•	0-1-2	20	162.1	55—		CLAY, sandy (CL)- Yellowish red (5YR 5/6), damp, soft, low plasticity, -HCL		
SS 16	X	7 □▲	4-5-8	16	163.1_	60-	-	*SAND, with silt (SP-SM)- Brownish yellow (10YR 6/6), damp, medium dense, fine graine -HCL	d,	
SS 17	X	<b>A</b>	7-6-6	12	158.1_	65-		SAND, silty, clayey (SC-SM)- Red (2.5YR 5/6), damp, medium dense, fine grained, -HCI	- <del>-</del>	
SS 18	X	<b>A</b>	2-3-5	20	153.1_	70-		CLAY, silty (CL)- Yellow (2.5Y 7/6), damp, medium stiff, low plasticity, -HCL	-	
SS 19	X	<b>A</b>	4-6-11	18	148.1_ 146.1_	- - 75 –		SAND, clayey (SC) - Dark grayish brown (2.5Y 4/2), damp, medium dense, fine grained -HCL SAND (SP) - Pale yellow (2.5Y 8/3), damp, medium dense, fine to medium grained, -HCL	,	
SS 20	X	•	4-5-6	12		80-		SAA except fine grained	l a de	s of circulation at ppth of 82.0 feet, ng installed to a th of 85.0 feet. m there, casing anced as needed to
SS 21	X	<b>A</b>	1-3-8	24	138.1_ 135.6_	- - 85-		CLAY, silty (CL-ML)- Light yellowish brown and brownish yellow (2.5Y 6/3 and 10YR 6/8), damp, stiff, low plasticity, -HCL	a de	anced as needed to pth of 99.0 feet.  of Blue Bluff cl. Formation at a
SS 22	X	, ○+ <b>▲</b> ⊟	26-25-32	24		- - - 90-	-	*SILT (MH) - Greenish gray (GLEY1 5/5GY), dry, stiff, +HCL  SAA except damp, hard	dep War end of c War beg	el Formation at a th of 84.5 feet ter level depth at of 1/19/07 = Top asing ter level depth at inning of 1/22/07 feet
SS 23	$\boxtimes$		18-50/4"	24		- - - 95 –	-	SAA except contains cemented layers	beg	ter level depth at inning 1/23/07 =
SS 24	X	<b>A</b>	13-14-21	24	118.1	100-		SAA except contains shell fragments	101	eet
SS 25	X	<b>2</b>	14-16-19	24		105-		*CLAY, with sand (CH)- Greenish gray (GLEY1 5/5GY), dry, hard, +HCL		
				l	113.1_ SITE	V 380 of	_	e Units 3 & 4 COL Project Final Log	HOL	E NO. <b>B-4015</b>



GE		TECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	C	JOB NO.   SH DL Project   6141-06-0286	HEET NO	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" 72 2nd 6" O 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (*= field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X		36-50/4"	18		110-		*CLAY (CL)- Greenish gray (GLEY 1 6/5GY), damp, hard, low plasticity, very grained sand, some cemented areas, +HC	fine L	
SS 27	X	<b>A</b>	16-20-40	24		115—		SAA except contains shell fragments		Water level depth at end of 1/23/07 = 5
SS 28	X		8-20-50/5"	21		120-		SAA		Water level depth at beginning of 1/24/07 = 71 feet
SS 29	X	<b>A</b>	16-20-16	24		125-		SAA except greenish gray (GLEY 1 6/10 some cemented areas	OY),	
SS 30	X		21-46-50/3"	19		130-		SAA		
SS 31	X		48-50/5.5"	16		135—		SAA		
SS 32	X	⊕	11-15-28	21	83.1_	140-		CLAY, with sand (CL)- Light greenish g (GLEY 1 7/5GY), damp, hard, low plastic fine grained sand, +HCL	gray city,	
SS 33	X	<b>A</b>	8-18-28	24		145-		SAA		
SS 34	X	<b>A</b>	11-14-21	24		150-		SAA except contains shell fragments		
SS 35	X	<b>A</b>	28-26-31	18	68.1_ 65.1_	- - 155—		SAND, with silt (SP-SM)- Very dark greenish gray (GLEY 1 3/10Y), moist, ve dense, fine grained, contains lean clay laminations, -HCL  Boring terminated at 155 feet	ery	Top of Still Branch Formation at a depth of 152 feet
					Lou					
					SITE	V <del>381 of</del>		e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-4015</b>



GF	ΩT	ECHNICAL LO	C	OJEC			~~		JOB NO.		SHEET NO		HOLE NO.
LOGGE		LOTHIOAL LO	•		e Units	3 & 4	CO	L Project	6141-0	06-0286 BEGUN	<b>1</b> OF	3 COMPI	B-4016
LOGGE	ום ט	R. Clark		OOK		N 114	299	6.4 E 6211	12.9	1/3/200	7	1/4/2	
DRILLER	₹	IX. Clark	D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
		arren-A.E. Drilling			C	ME-75	50	3 I	nches		328848		149.6
GROUN	D EL. <b>1.2</b>	DEPTH/EL. GROUND WAT	TER SITI	E:			,	Vogtle Elect	ric Cone	aratina Pl	ant _ Wa	vnosha	oro GA
	1.2	<u>¥</u> /						vogue Elect	iic Gene	crating 1 i	ant - ** a	yncsbe	710, GA
SAMP. TYPE AND NO.	SAMPLE + O	N-VALUE (SPT) WATER CONTENT % ATT. LIMITS % FINES %	1st 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field cl laboratory te of sample by	lassification adju-		ION	CHARA DRILLI	R LEVELS, ACTER OF NG AND RATORY
88		20 40 60 80	10-10-9	18	221.2			CDAVEL sile	by (CM) I	Dork bluich o	rov	Top of	Fill at a denth
SS 1 2 2 SS 3 2 4 2 4 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4	<b>A</b>	<b>A</b>	11-8-8 3-4-4 2-2-2	17 8 14	219.7_	5-		GRAVEL, silt (GLEY2 4/10E SAND, with si (10YR 5/8), dr grained, nonple SAA except str loose	ilt (SP-SM y, medium astic rong browi	I)- Yellowish dense, very n (7.5YR 5/8	brown fine	Top of	Fill at a depth eet Barnwell at a depth of
ss	<b>_</b>		2-1-3	0	213.2_	+	<u>: ]                                    </u>	NO RECOVE	'DV				
5 2	X			,	210.7_	10-		NO RECOVE	4 <b>N 1</b>				
SS 6	X	<b>A</b>	7-9-11 6-10-13	16 15		15		SAND, with si (7.5YR 5/8), m grained, nonpla SAA except fin	astic		own ery fine		
SS 8			9-11-10	10		20-		SAA except re	•		(8)		
SS S	X		0-0-0	13	194.2_	25-		SAA except ye	————	a (5 f R 5/8)			
SS 10		^	6-11-14	14	192.2_ 189.2_	30-		CLAY (CL)- moist, medium SAND, with si (7.5YR 6/6), w	ilt (SP-SM	D- Reddish v	ellow		
SS 11	<b>A</b>		6-5-4	3	184.2_	35-		CLAY, with s (10YR 6/8), m grained SAND	and (CL)- oist, stiff, 1	· Brownish yo medium plast	ellow licity, fine		
SS 12	<b>A</b>		3-3-3		179.2_	40-		CLAY (CL)- medium stiff, r	Yellow (10 nedium pla	OYR 7/6), mo asticity	pist,		
SS 13			WOH/6"-1-:	3 24		45 —		SILT (ML) - Y medium stiff, r	Yellow (10 medium pla	YR 7/6), mo	ist,		
ss	<b>A</b>		3-3-4	20				SAA except br	ownish ye	llow (10YR o	6/6), wet		
		Y: A. TAYLOR Y: P. DEPREE			SITE	Vo.	_	Units 3 & 4 CO Final Log		t		HOLE NO	-4016



GE	OTECHNICAL LO		ojec ogtle		3 & 4		T NO.	3 B-4016
/S	MAN-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>7</del> 2nd 6" O 3rd 6" <u>4</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTION AND CLASSIFICATION  ( * = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer )	V   C   E	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY FESTING
14				169.2_	-	1	- – –	
SS 15		4-5-7	15		55-	SAND, with silt (SP-SM)- Yellow (10YR 7/6), wet, medium dense, fine grained, nonplastic, -HCL		
SS 16		1-3-3	24		60-	SAA except strong brown (7.5YR 5/6), loos contains shell fragments	se,	
SS 17		6-11-12	20		65	SAA except yellow (10YR 7/6), medium de very fine grained		
SS 18		8-8-10	16		70-	SAA except yellow (10YR 7/8), fine grained	d E	End logging by R. Clark. Begin logging by D. Atkinson.
SS 19	X	6-7-14	24		75—	SAA except red (2.5YR 4/8)		
SS 20	<b>A</b>	14-14-16	13		80-	SAA except reddish yellow (7.5YR 7/8), medium to coarse grained		
SS 21	X ·	12-14-50/1"	13	134.7_	85-	SAA except brownish yellow (10YR 6/8), v dense, contains 1" thick CLAY lens		
SS 22	X ·	17-27-50/1"	24		90-	*SILT, with sand (MH)- Dark greenish gra (GLEY1 4/10GY), wet, hard, +HCL	ay 8	Fop of Blue Bluff Marl at a depth of 86.5 feet
SS 23	<b>A</b>	10-20-26	24		95-	SAA except greenish gray (GLEY1 5/10GY	7)	
SS 24	▲ ⊕	14-16-21	24	110.2	100-	SAA	Ve	Water level depth at end of 1/3/07 = Top of
SS 25		20-21-22	7	119.2_	105-	CLAY, silty with sand (CL-ML)- Greenish gray (GLEY 1 5/5GY), wet, hard, low plastic very fine grained SAND, +HCL	c	Water level depth at beginning of 1/4/07 = 17.0 feet
	<u> </u>	1		SITE	Vo	ttle Units 3 & 4 COL Project Final Log	H	OLE NO. <b>B-4016</b>



GE	EC	TECHNICAL LO	_	OJE(		3 & 4	L C	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 OF		HOLE NO. <b>B-4016</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" X	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTE WATE CHAR DRILL	ES ON: ER LEVELS, RACTER OF LING AND PRATORY
SS 26	×	20 40 60 80	50/5"	14		110-		SAA except light greenish gray (GLEY1 7/5GY)		
SS 27	X		12-50/3"	16	109.2_	115-		SILT (ML) - Greenish gray (GLEY1 6/10GY), wet, hard, +HCL		
SS 28	X	<b>A</b>	15-19-33	24	104.2_	120-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/5GY), wet, hard, high plasticity, contains trace shell fragments, +HCL		
SS 29	×		50/4"	4		125-		SAA except light greenish gray (GLEY1 7/5GY), medium plasticity		
SS 30	X	<b>A</b>	14-20-27	24		130-		SAA except greenish gray (GLEY1 6/10GY), high plasticity		
SS 31	X		12-33-50/1"	7		135-		SAA except light greenish gray (GLEY1 7/10Y)		
SS 32	X	<b>A</b>	15-15-30	24		140-		SAA except greenish gray (GLEY1 6/10Y), medium plasticity		
SS 33	X	<b>A</b>	20-23-21	16		145-		SAA except greenish gray (GLEY1 5/10Y), high plasticity		
SS 34	X		25-20-50/1"	24	71.7_	- - -		SAA except light greenish gray (GLEY1 7/10Y) Boring terminated at 149.58 feet		
		<del></del>	<u> </u>		SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE I	NO. <b>3-4016</b>



JUSE	:O	TECHNIC	AL LO	<u> </u>	OJEC		204		N. D	JOB NO.	0206	SHEET NO		HOLE NO.
LOGGE				•		e Units . DINATES	3 & 4	·CC	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF		B-4017
		B. Shar	rp				N 114	1303	34.8 E 6209	49.9	2/15/200	)7		2007
DRILLE	R		•	D	RILL	MAKE AND	MODE	EL	HOLE DIAM	ETER	HAMMER SE			TOTAL DEPTH
GROUI	אר בי	Oglesby-MA	ACTEC GROUND WAT	ED OF	E.	C	ME-	75	10	Inches		219907		150.0
	20.9	$\nabla$ /	JAW UNUUNE	ER SITI	Ē.				Vogtle Elect	ric Gene	erating Pla	ant - Wa	<u>ynesb</u>	oro, GA
SAMP. TYPE AND NO.		▲ N-VALUE (SP	ΥТ)	N-COUNT	۲ (in)	N O F	ᅜ	က္သ					NOTE	
F.S	SAMPLE	O WATER CON	TENT %	1st 6" 2nd 6" 3rd 6"	RECOVERY	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTIO	N AND CL	_ASSIFICAT	ION		R LEVELS, ACTER OF
AMP	SAI	+ ATT. LIMITS	%	3 2	00	N F F	ΞPΤ	ЗКА	( * = field c	lassification adjust esting data and/or y field geologist/e	sted based on			ING AND RATORY
Š	[	☐ FINES %			R	Ш	Ճ		of sample by	y field geologist/e	engineer)		TESTI	
SS		20 40 6	80 80	1-8-10	11	220.9		S-080	CONCDETE				Top of	Congrete et e
1	X	<b>A</b>		10-12-12	11	220.4-	-		- <u>CONCRETE</u> SĄŅD (SP) - S	Strong brov	vn (7.5YR 5/	8) and	depth of	Concrete at a of 0.0 feet Barnwell
SS 2	Д			10 12 12	11		-		SAND (SP) - S reddish yellow dense, fine gra	(/.5YK // ined	6), moist, me	eaium	Group 0.5 fee	at a depth of
SS 3	X	<b>A</b>		3-6-8	12	216.9_	-	///	SAA except lig	eddish yello	(7.5YR 6/4) ow (7.5YR 6/	(8)	Begin	drilling with a 3 ill bit
				7-15-17	17		5-		SAND, clayey (5YR 5/8) and	strong bro	uiea yellowi wn (7.5YR 5	sn red (/8),	no ul	111 016
SS 4	Д			/-13-1/	17	212.9	-		moist, medium SAA except de	n dense, fin ense	e grained			
SS	$\forall$	<b>A</b>		11-16-18	15.5	212.7_	-		SAND, with s	ilt (SP-SM	)- Yellowish	red		
5	H					210.4_	10-		<b>SAND, with s</b> (5YR 5/8), mo	ist, dense,	fine grained			
SS	X			11-15-20	11		-		SAND, clayey (5YR 5/8) and moist, dense, f	(SC)- Mo	ttled yellowi	sh red		
6							-							
SS 7	X	-		15-12-19	14		15-		SAA except m	edium to c	oarse grained	i		
						202.0	-							
						203.9_	-							
SS	M	<b>A</b>		8-11-12	12		-		SAND, with si	ilţ (SP-SM઼	)- Brownish	yellow		
8	Η						20-		SAND, with si (10YR 6/8), m grained, contain	oist, mediu ins black m	im dense, me langanese sta	dium ining		
						198.9_	-							
CC	Ц	lacksquare		5-7-8	15		-		CAND	(CC) V-1	1:	(10X/D		
SS 9	Х			3-7-8	13		25-		SAND, clayey 5/8), moist, me grained, contain	edium dens	e, medium to	n (10 Y K o coarse		
						193.9			grained, contai manganese sta	ıns CLAY l ining	ienses and tra	ace black		
						173.7_	-							
SS	X	<b>A</b>		4-7-8	18			$\left\{ \left  \left  \left  \right  \right  \right  \right\}$	SILT, with sa	nd (ML)-	Pale yellow (	2.5Y		
10	H						30-	<u> </u>	SILT, with sa 7/4), moist, sti very fine to fin SAND lenses a	ne grained S	SAND, conta	uns ese		
							-		staining	and trace D	iuck mangan	CSC		
SS	H	<b>A</b>		3-4-5	18		-	<u> </u>	SAA except st	iff contain	s no mangan	ese		
11	Д						35-	-	staining	, comain	o no mangan			
							-	$\left\  \left\  \left\  \right\  \right\ $						
							-	]						
SS 12	X	•		4-6-10	18		40		SAA except ve SAND, contain	ery stiff, fir	ne to medium	grained		
14	П						40-	]	black mangane	ese staining	5	wuuit		
						178.9_	-	Ш						
SS	$\forall$	<b>A</b>		8-8-9	12		-		SAND, silty (S	SM)- Yello	ow (2.5Y 7/6	), moist,		
13	H						45 —		medium dense fragments, -HO	, medium g CL	grained, conta	ains shell		
						173.9_	-	Ш	- ´ 					
60		<b>A</b>		5 6 11	10		-		CTT III		11 /#**	7(4)		
SS	X			5-6-11	18	0.75			SILT, sandy ( moist, very stil	ML)- Pale ff, nonplast	yellow (5Y tic to low pla	//4), sticity,		
		BY: A. TAYLOR BY: P. DEPREE				SITE	V	ogtl	e Units 3 & 4 CO Final Log		t		HOLE N	o. <b>3-4017</b>
IZEVIE	, v ⊂ D	DI. F. DEFREE					385 of	<del>724</del>		5			ID.	701/



GE	OTECHNICAL LOG	•	OJEC ogtl		3 & 4	C	JOB NO.   SHI DL Project   6141-06-0286	EET NO 2 OF	
SAMP. TYPE AND NO.		1st 6" -7 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 00 00				-		fine grained SAND, -HCL		
SS 15		8-9-9	12	163.9	55—		SAA except mottled pale yellow (5Y 7/4) pinkish gray (5YR 7/2), fine to medium gr SAND, contains trace shell fragments	and rained	Water level depth at end of 2/15/07= 6.0
SS 16	<b>A</b>	9-12-12	15	103.5_	60-		SAND, silty (SM)- Pinkish gray (7.5YR 7 moist to wet, medium dense, fine grained	7/2),	Water level depth at beginning of 2/16/07=35.0 feet
SS 17	•	4-3-2	9	156.7_ 154.9_	65—		SAA except loose, medium grained SILT, with sand (ML)- Pale yellow (5Y) wet, medium stiff, nonplastic, fine to medi grained SAND, contains some shell fragm	8/3), ium	Top of Litley
SS 18	<u> </u>	50/3.5"	3		70-		SAND, silty (SM)- Pinkish white (5YR 8/wet, very dense, very coarse grained, conta abundant cemented shell hash, +HCL	J	Top of Utley Limestone at a depth of 66.0 feet Loss of circulation at a depth of 66.0 feet
SS 19	<b>A</b>	12-14-20	18		- - 75—		SAA except very pale brown (10YR 8/2), dense, fine to medium grained, contains shagments	hell	
SS 2		15-50/4"	10		80-		SAA except pale yellow (2.5Y 7/4), very of fine grained	dense,	
SS 21		50/1"	0.5		85 —		SAA except mostly cemented shell fragme and shell hash	ents	
SS 522 2	<b>A</b>	50/6"-26-32	18	133.9_ 131.9_	90—		CLAY, silty (CL-ML)- Pale olive (5Y 6/2 moist, hard, nonplastic to low plasticity, contains cemented shell fragments, +HCL *CLAY, with sand (CL)- Dark greenish (GLEY1 4/10Y), moist to damp, hard, nonplastic to low plasticity, contains trace fragments, +HCL	, / /	Top of Blue Bluff Marl at a depth of 89.0 feet Water level depth at end of 2/16/07= 35.0 feet
UD 1	0		16.5		95 — - -		SAA Pocket Penetrometer: >4.75 TSF		Reamed hole to a depth of 90.0 feet using a 9 7/8" drill bit. Installed 6" steel casing to a depth of
SS 23 2	^	10-14-21	18		100-		SAA except damp		drilling with a 5 7/8" drill bit. Pitcher
SS 24		16-26-50/3"	15		105-		SAA		Water level depth at end of 3/6/07= 4.0 feet Water level depth at beginning of 3/7/07= 6.5 feet
				SITE	V 386 of	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-4017</b>



GE	OTECHNICAL LO	~	OJEC ogtl		3 & 4	C(	JOB NO. SHEET NO <b>6141-06-0286</b> 3 OF	
SAMP. TYPE AND NO.	☐ FINES %	1st 6" -z 2nd 6" O 3rd 6" ±	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 25	20 40 60 80	50/3"	1		110-		SAA except greenish gray (GLEY1 5/10Y), dry to damp, contains abundant cementation	
UD 2 UD 3	O		1.5 13.25		- - 115— -		SAA Pocket Penetrometer: >4.75 TSF SAA Pocket Penetrometer: >4.75 TSF	Pitcher Pitcher
SS 26		22-35-50/6"	18		120-		SAA	Changed to a 3 7/8" drill bit
SS 27	VI VI	ОН/6"-50/1	.57.5		125-		SAA	
SS 28		9-28-50/1"	13		130-		SAA except no shell fragments and some cementation	
SS 29		50/4"	4		135—		SAA except abundant cementation	Water level depth at end of 3/7/07= 6.5 feet
SS 30	+ ⊖+ ▲ □	13-14-48	18		140-		SAA except greenish gray (GLEY1 6/10Y)	Water level depth at beginning of 3/8/07= 10.0 feet
SS 31		WOH/12"-2	1 18		- 145— -		SAA except no cementation	
SS 32		12-12-21	18	70.9_	150-		SAA except some cementation  Boring terminated at 150 feet	
				SITE	▼3	(0.54)	a Unite 3 & A COL Project	HOLE NO.
					87 of		e Units 3 & 4 COL Project Final Log	B-4017



GF	=0	TECHNICAL LO	<u> </u>	OJEC			~~-		JOB NO.		SHEET NO.		HOLE NO.
LOGG			ν,		e Units	3 & 4 (	COL	Project	6141-0	06-0286 BEGUN	<b>1</b> OF	3 COMPL	B-4018
LUGG	בט פ	R. Clark		OUR		N 1142	735	5 E 6213	15.5	2/26/200	7	2/28/2	
DRILL	ER	N, Clai K	D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
	]	Bilbrey-Miller Drilling			C	ME-85	5	61	nches		270256		160.0
GROU	ND E	$\nabla$ /	ER SITI	Ξ:			<b>1</b> 7.	ogtle Elect	rio Cono	vesting DL	ant Wa	ynocho	ro CA
	10.	<u>.</u>						ogue Elect	ric Gene	aung 11	ant - wa	ynesbu	10, GA
SAMP. TYPE AND NO.	SAMPLE	<ul><li>○ WATER CONTENT %</li><li>+ ATT. LIMITS %</li><li>□ FINES %</li></ul>	1st 6" - <del>2</del> 2nd 6" O 3rd 6" <del>-</del> 2	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GKAPHICS	DESCRIPTIC  (* = field c laboratory t of sample b	DN AND CL lassification adjusting data and/or y field geologist/or	sted based on	ION	CHARA DRILLI	R LEVELS, CTER OF NG AND ATORY
SS	$\forall$	20 40 60 80	6-7-10	18	220.3	×	XX S	SAND, with s	ilt and gra	vel (SP-SM)	- Brown	Top of l	Fill at a depth
1 SS 2 SS 3	4	<b>A</b>	10-12-12 2-2-3	13 16	218.8_	5—		10YR 5/3), dayrained, nonples AND, with clamp, medium on plastic SAA except lo	amp, medicasticasticasticasticasticasticasticast	ım dense, vei	ry fine	Top of 1	Fill at a depth eet Barnwell t a depth of
SS 4	M		2-2-4	17		-		SAA					
SS 5	X	<b>A</b>	3-3-4	16	209.8_	10-	S	SAA 					
SS 6	X	<b>^</b>	3-5-7	18	207.2		9	CLAY, with s 7.5YR 6/8), d	and (CL)- amp, stiff,	Reddish yel low plasticit	low y, low		
SS 7	X	<b>A</b>	4-5-8	19	207.3_	15-		oughness, ver SAND, with c lamp, medium conplastic	<u>y tine graii</u>	<u> 1ea SAND _</u>			
SS 8	X	<b>A</b>	4-8-7	18		20		SAA except re	ed (2.5YR 5	5/8)			
SS 9	X	<b>A</b>	6-7-8	18		25	ST	SAA except re nedium grain	eddish yello ed	ow (7.5YR 6/	8),		
SS 10	X	<b>A</b>	6-8-9	17	188.3	30-	5.2	SAA except regrained	ddish yello	ow (7.5YR 6/	(6), fine		
SS 11	X	<b>A</b>	2-3-5	19	100.5_	35-	5	SILT (ML) - I lamp, stiff, lo	Brownish y w plasticity	ellow (10YR , low toughn	6/8), ess		
SS 12	X	<b>A</b>	1-3-5	18	179 2	40-	S	SAA except yo	ellow (10Y	R 7/6)			
SS 13		<b>A</b>	2-5-7	17	178.3_	45-	501	SAND, with c 10YR 6/6), m nedium grains	lay (SP-SC oist, mediu ed, nonplas	C)- Brownish im dense, fin tic	yellow e to		
SS	X	<b>A</b>	1-3-4	10			5	SAA except yo	ellow (2.5Y	7/6), loose,	very fine		
		D BY: A. TAYLOR D BY: P. DEPREE		<b>.</b>	SITE	Vo	gtle U	nits 3 & 4 Co Final Log		t		HOLE NO	-4018
					<u> </u>	388 of 7		11111 1108	<del></del>				1010



GE	ΞC	TECHNICAL LO		OJEC ngtl		3 & 4	· C	JOB NO. SHEE 6141-06-0286 2	NO.	HOLE NO.  B-4018
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -2 2nd 6" 0 3rd 6" 1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N V C D	IOTES ON: WATER LEVELS, HARACTER OF PRILLING AND ABORATORY ESTING
14 SS 15	X	<b>A</b>	5-6-11	18	163.3_	- - - 55—		SAA except pale yellow (2.5Y 7/4), medium dense, fine grained, contains iron staining		
SS 16	X	<b>A</b>	5-11-15	17	158.3_	60-		SAND, with silt (SP-SM)- Pale yellow (2.537/4), damp, medium dense, fine grained, nonplastic	7	
SS 17	X	<b>A</b>	6-9-11	18		65—		SAND, with clay (SP-SC)- Pale yellow (2.57/4), moist, medium dense, fine grained, subrounded to subangular, nonplastic, containing	Y ns	
SS 18	X	•	5-8-12	18	148.3_	70—		SAA	W en	Vater level depth at nd of 2/26/07 = iround surface
SS 19	X	<b>A</b>	5-7-12	17		75— -		<b>SAND, with silt (SP-SM)-</b> Pale yellow (5Y 8/3), wet, medium dense, very fine grained, nonplastic	be =	Vater level depth at eginning of 2/27/07 61.0 feet
SS 20	X	<b>A</b>	7-10-13	18	138.3_	80-	0	SAA except pale yellow (2.5Y 8/4)	_	on of Utley
SS 21	X	•	50/5"	7	133.8_	85 — 		*SHELL HASH, with clay (GP-GC)- Pale yellow (2.5Y 8/2), wet, very dense, angular, +HCL	0	op of Utley imestone at a depth f 82.0 feet op of Blue Bluff farl at a depth of 6.5 feet
SS 22	X		8-12-30	20		90- - -		CLAY (CL) - Pale yellow (5Y 7/4) to greenish gray (GLEY1 5/10GY), moist, hard low plasticity, low toughness, +HCL	8	5.5 feet
UD 1		.0		27		95— 		SAA except greenish gray (GLEY1 5/10GY) Pocket Penetrometer: >4.5 TSF, >4.5 TSF, > TSF		itcher
UD 2				7		100-		SAA Pocket Penetrometer: >4.5 TSF, >4.5 TSF, > TSF	4.5 P	itcher
UD 3		0		20	SITE	105—	notl	SAA Pocket Penetrometer: >4.5 TSF, >4.5 TSF, > TSF	1.5	OLE NO.
						•	ogu	Final Log	(.,)	B-4018



GE	Ξ(	OTECHNICAL LO	•	OJEC ogtl		3 & 4	C	JOB NO. SHEET 6141-06-0286 3		3 B-4018
SAMP. TYPE AND NO.	SAMPLE		1st 6" -7 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	\ ( ) 1	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 23	X	7	10-13-18	20		110-		SAA except greenish gray (GLEY1 5/5GY)		
SS 24	X		11-16-50/3"	16		- - 115—		SAA		
SS 25	X	•	20-21-33	19		120-		SAA		
SS 26	X	<b>A</b>	37-27-20	6		125-		SAA except contains trace cemented shell fragments	N e	Water level depth at end of 2/27/07 = Ground surface
UD 4		<b>6</b> -+ □		10		130-		SAA except greenish gray (GLEY1 6/5GY), contains abundant cemented shell fragments Pocket Penetrometer: >4.5 TSF, >4		Water level depth at beginning of 2/28/07 = Ground surface Pitcher
SS 27	X	7	9-20-22	19		135—		SAA except greenish gray (GLEY1 5/5GY), cemented shell fragments	no	
UD 5		О		21		140—		SAA Pocket Penetrometer: >4.5 TSF, >4.5 TSF, >4.5 TSF	4.5 I	Pitcher
SS 28	X	<b>A</b>	11-21-21	21		145—		SAA except greenish gray (GLEY1 6/5GY), shell fragments	no	
SS 29	X	<b>A</b>	16-16-15	20		150-		SAA except light olive gray (5Y 6/2), contain trace cemented shell fragments	ns	
SS 30	X	7	17-20-15	19	64.8_	- - 155—		SAA except no shell fragments		Γορ of Still Branch
SS 31	X	<b>A</b>	10-19-34	19	60.3_	160-		SAND, with clay (SP-SC)- Olive gray (5Y 4/2), moist, very dense, very fine grained, nonplastic, -HCL Boring terminated at 160 feet		Formation at a depth of 155.5 feet  Water level depth at end of 2/28/07 = Ground surface
					SITE	V 390 of		e Units 3 & 4 COL Project Final Log	Н	D-4018



GEOTECHNICAL L	റവ	OJEC		2 R. 1	CC	OL Project	JOB NO.	06-0286	SHEET NO		HOLE NO. <b>B-4019</b>
LOGGED BY	V		DINATES	3 & 4	CC	)L i roject	0141-0	BEGUN	1 OF	COMPLI	
D. Brooks		DILL				75.9 E 6213 HOLE DIAM		2/22/200		3/16/2	
Warren-A.E. Drilling		KILL	MAKE AND	мореі МЕ-7:			nches	HAMMER SE	328848	EK	160.0
GROUND EL. DEPTH/EL. GROUND V		E:			,	-		4:	4 XV-		
221.8 💃 /						Vogtle Electi	ric Gene	erating Pi	ant - wa	ynesdo	ro, GA
A N-VALUE (SPT)  O WATER CONTENT %  + ATT. LIMITS %  FINES %  20 40 60 80	1st 6" -x 2nd 6" -3-3 3rd 6" _1x	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIO (*= field cl laboratory te of sample by	ON AND CL lassification adjusting data and/or y field geologist/o	sted based on	ION		LEVELS, CTER OF IG AND ATORY
SS	2-4-6	15	221.8			SAND, with si 4/4), damp, loc	ilt (SP-SM	)- Brown (7.	5YR	Top of E	Barnwell t a depth of
1 SS 2 A A 3	6-7-8 3-3-4	13		- <u> </u> : - : - <u> </u> :		grained, nonpla SAA except re- medium dense SAA except re- fine to medium	astic ddish yello	ow (7.5YR 6/	(8),	0.0 feet	t a depth of
SS A	3-6-7	13	216.3_	5-		SAND, with cl (7.5YR 6/8), dg					
4   \( \text{SS} \)   \( \text{SS} \)   \( \text{A} \)	8-9-11	15		10		(7.5YR 6/8), da grained, low pl SAA	amp), medi lasticity	úm dense, fii	ne		
SS A	11-11-15	16	200.0	10-		SAA except re-	d (2.5YR 5	5/8)			
SS 7	11-13-14	17	208.8_	15—		CLAY, silty, s (5YR 5/8), dan fine to medium	andy (CL	-ML)- Yello n dense, low	wish red plasticity,		
			204.8_	-		fine to medium	grained S	AND 			
SS X	10-13-20	14	199.8	20-		CLAY, with so (7.5YR 6/8), do medium graine	and (CL)- amp, hard, ed SAND	Reddish yel medium plas	low sticity,		
SS A	5-4-6	16	194.8	25		SAND, with cl (7.5YR 6/8), do medium graine	lay (SP-SC amp, loose ed, low plas	C)- Reddish y to medium osticity	vellow dense,		
SS N A	4-6-8	14		30-		SAND, with si (10YR 7/6), da low plasticity	ilty clay (S	P-SC)- Yellom dense, fin	ow e grained,	Loss of	circulation at
SS X	4-6-8	13	189.8_	35—		CLAY, silty (0 (10YR 6/6), da	CL-ML)- l imp, stiff, r	Brownish yel	llow	a depth o	of 31.0 feet
SS X	4-7-7	16	184.8_	40-		SAND, silty, c brown (10YR) to medium grai	layey (SC-5/8), moist ined, low p	-SM)- Yellov , medium der olasticity, -Ho	wish nse, fine CL		
SS N	3-4-4	17		45		SAA except br grained	ownish yel	llow (10YR (	6/8), fine		
SS A	3-3-3	14	OITE	- - - -		SAA except ye medium graine	<u>ed `</u>		o, loose,		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE			SITE	Vo 391 of		Units 3 & 4 CC Final Log		t		HOLE NO	4019



GE		OTECHNICAL LO	<u> </u>	OJE(		3 & 4	l C(	JOB NO. SHEET N OL Project 6141-06-0286 2 c	O. HOLE NO. B-4019
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - 5 2nd 6" O 3rd 6" - 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS 15	X	<b>A</b>	5-5-6	12	169.8_	55—		SAND, with silt (SP-SM)- Yellow (10YR 7/8), moist, medium dense, medium grained, nonplastic, -HCL	
SS 16	X	•	11-10-13	11	159.8_	60-		SAA	
SS 17	X	<b>A</b>	10-7-9	0		65-	-	NO RECOVERY	
SS 18	X	<b>A</b>	3-3-4	18	154.8_ 149.8	70—		CLAY, silty (CL-ML)- Pale yellow (2.5Y 8/2), damp, medium stiff, low plasticity, +HCL	Loss of circulation at a depth of 67.0 feet  Water level depth at end of 2/22/07 =  Ground surface
SS 19	X	<b>A</b>	8-11-28	8	144.8_	- - 75 — -		*CLAY, silty, sandy (CL-ML)- Pale yellow (2.5Y 8/2), moist, hard, low plasticity, medium grained SAND, contains shell hash, +HCL	
SS 20		•	50/1"	0	120.0	80-	-	NO RECOVERY	Limestone at a depth of 77.0 feet
SS 21	×		50/4"	5	139.8_ 134.8	85—		*SHELL HASH, silty, clayey with sand (GC-GM) - Pale yellow (2.5Y 7/2), moist, very dense, low plasticity, +HCL	
SS 22	$\boxtimes$	•	30-50/5"	12	13 1.0_	90-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/5GY), damp, hard, low plasticity, +HCL	Top of Blue Bluff Marl at a depth of 87.0 feet  Water level depth at beginning of 3/15/07 = 41.0 feet
SS 23	X	<b>A</b>	4-12-21	14	128.8_	95—		CLAY (CL) - Greenish gray (GLEY1 6/10Y), damp, hard, low plasticity, +HCL	End logging by D. Brooks. Begin logging by L. Davis. Installed 6" steel casing to a depth of 93.0 feet
SS 24	X	<b>A</b>	9-12-18	24		100-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 6/5GY), damp, hard, low plasticity, contains minor shell hash, +HCL	75.0 1001
SS 25	X	*	11-17-45	25	114.8	105-		SAA except grayish green (GLEY2 5/5G)	
	- 1		1		SITE	392 of		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4019</b>



GE	OTECHNICAL LO		OJEC ogtl		3 & 4	· C(	DL Project JOB NO. 6141-0	6-0286	SHEET NO		HOLE NO. <b>B-4019</b>
SAMP. TYPE AND NO. SAMPI F	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" 00 3rd 6" 11	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CL  (* = field classification adjust laboratory testing data and/or of sample by field geologist/e	ted based on	ION	CHAR DRILL	R LEVELS, ACTER OF ING AND RATORY
SS 26		50/4"	6	109.8_	- 110-		CLAY (CL) - Pale green moist, hard, nonplastic to contains minor compacted	(GLEY1 6/5 medium plas d shell hash,	G), sticity, +HCL		
UD 1 UD 1A			8	107.0_	115—		CLAY, silty (CL-ML)- (GLEY1 6/10Y), damp, le Pocket Penetrometer: >4	Greenish gray ow plasticity 5 TSF	y , +HCL	Pitcher Pitcher	
SS 27	<b>A</b>	11-23-43	24	99.8_	120-		SAA except greenish gray hard contains minor shelf	/ (GLEY1 6/ hash and org	5GY), ganics		
SS 28	•	12-20-28	19		125-		CLAY (CL) - Greenish g damp, hard, low plasticity compacted shell hash, +H	ray (GLEY1 , contains m CL	6/10Y), inor		
SS 29	•	10-12-23	23		130-		SAA except contains no s	hell hash			
UD 2 UD 2A			2 24	83.8_	135—		SAA except light greenist 7/10Y), contains compact Pocket Penetrometer: >4. SAA except moist Pocket Penetrometer: >4.	n gray (GLE) ed zones 5 TSF 5 TSF	Y1	Pitcher Pitcher	
SS 30	<b>A</b>	13-21-34	24	79.8_	140-		SILT (ML) - Light green damp, hard, low plasticity	ish gray (7/5 v, +HCL	GY),		
SS 31	•	15-15-30	22		145-		CLAY (CL) - Light green 7/10Y), damp, hard, low p	nish gray (GI plasticity, +H	LEY1 ICL		
SS 32		33-44-50/5"	22		150-		SAA except medium plas	ticity			
SS 33	<b>A</b>	11-13-19	26	64.8_	155—		SAA except low plasticity	, contains sh	nell hash		
SS 34	•	21-33-34	19	61.8_	160—		SAND, silty (SM)- Dark (GLEY 1 4/10Y), moist, v -HCL Boring terminated at 160		y onplastic,	Water	Still Branch tion at a depth 0 feet level depth at 3/15/07 = Top ng
				SITE	V 393 of	_	e Units 3 & 4 COL Project Final Log	t		HOLE N	



GE	=(	OTECHNICAL LO	<u> </u>	OJEC		2.0.4.60	OI D : 4	JOB NO.	0206	SHEET NO.		HOLE NO.
LOGG					DINATES	3 & 4 CC	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	B-4020 ETED
		R. Clark				N 11429	69.4 E 6212	280.0	2/14/200	7	2/15/2	
DRILL	ER	a	D	RILL	MAKE AND		HOLE DIAM		HAMMER SE		ER	TOTAL DEPTH
GROU	ND	Skogland-MACTEC  EL. DEPTH/EL. GROUND WAT	ER SITI	F-	Diet	trich D-5	31	nches		100		89.4
	22	$\nabla$ /					Vogtle Elect	ric Gene	erating Pla	ant - Wa	ynesbo	ro, GA
된 .	ш	▲ N-VALUE (SPT)	N-COUNT	/ (in)	N L	FE					NOTES	
J.O	SAMPLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ÆR	/ATI( FEE <sup>-</sup>	EPTH IN F	DESCRIPTION	ON AND CI	_ASSIFICAT	ION	CHARA	R LEVELS, CTER OF
SAMP. TYPE AND NO.	SAI	+ ATT. LIMITS %		RECOVERY (in)	ELEVATION IN FEET	DEPTH IN GRAPHIC	( * = field of laboratory to of sample b	lassification adju- esting data and/or y field geologist/o	sted based on re-examination engineer)			NG AND ATORY
0		☐ FINES %		8				,	,		TESTIN	IG
SS	M	20 40 60 80	10-11-18	15	222.8 221.8		SAND, with s	ilt and gra	vel (SP-SM)	- Dark	Top of I	Fill at a depth
1 SS	$\forall$	<b>A</b>	13-14-16	17	_		SAND, with s reddish gray (2 damp, medium GRAVEL	2.5 Y R 4/1) n dense, no	and red (2.5 nplastic, ang	YR 4/8), ular	Top of I	Fill at a depth eet Barnwell t a depth of
SS 2 SS	H	<b>A</b>	12-12-12	16		1 11	SAND, with s (10YR 6/8), da	ilt (SP-SM	)- Brownish	yellow	1.0 feet	a acpui oi
3	A				217.3_	5—						
SS 4	X	<b>1</b>	12-10-10	18			SAA except your fine grain	ellow (10Y led	R 7/6), medi	um densel,		
SS		<b>A</b>	9-10-10	15		\$ \	nonplastic SAA except de SAA except yvery fine grair CLAY, with seamp, very sti SAND, contait SAA except re	ff, low plas	kea (2.5 Y R ticity, very f	5/6), ine		
5	A				212.3_	10-	SAND, contain SAA except re grained SAND	ed (2.5YR 4	1/8), moist, c	oarse		
SS 6	X	<b>A</b>	10-11-17	18			SAND, with c	lay (SP-SC	C)- Red (2.5)	(R 4/8),		
SS		<b>A</b>	10-11-12	18			nonplastic SAA except co					
7	Å					15-	lenses	ontains yen	.ow (2.31 770	), CLITT		
GG.		<b>A</b>	5-5-8	19			CAA					
SS 8	X		330	.,		20-	SAA					
		<b>A</b>	5-5-9	17			g	11 (2.5)	7.710			
SS 9	X		3-3-9	17		25	SAA except y	ellow (2.5 Y	( //6)			
					195.8_							
			445	10								
SS 10	X		4-4-5	18		30-	CLAY (CL)- low plasticity,	Yellow (2. low tough	5 Y 7/6), moi ness, -HCL	st, stiff,		
				4.6								
SS 11	X		4-4-7	16		35-	SAA					
					185.8_							
_												
SS 12	M		2-5-4	19		40-	SILT (ML) - You low plasticity,	Yellow (2.5 low tough	SY 7/6), mois ness	t, stiff,		
SS 13	X		3-2-3	17		45-	SAA except m	edium stif	f			
					175.8							
					1,5.0_							
SS	X	•	6-6-6	17			SAND, with s (10YR 6/6), m	<u>ıoıst, medit</u>	<u>im dense, fin</u>	e grained,		
		ED BY: A. TAYLOR ED BY: P. DEPREE			SITE	Vogtl	e Units 3 & 4 Co Final Log		t		HOLE NO. ${f R}$ .	-4020
					1	394 of 724		<b>5</b>				.040



GE	ΞC	TECHNICAL LO	<u> </u>	OJE(		3 & 4	- C	JOB NO. SHEET 6141-06-0286 2	NO. OF 2	HOLE NO.  B-4020
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>2</del> 2nd 6" <u>0</u> 3rd 6" <u>1</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NV CI DI	OTES ON: IATER LEVELS, HARACTER OF RILLING AND ABORATORY ESTING
14 SS 15	X	<b>A</b>	6-7-8	15		55-		nonplastic  SAA except light red (2.5YR 6/6), wet	W	Vater level depth at d of 2/14/07 = round surface
SS 16	X	•	8-5-5	18	163.4_ 160.8_	60-		SAA except yellow (10YR 7/6), moist CLAY, with sand (CL)- Pale yellow (5Y 8/4 moist, stiff, low plasticity, -HCL	W	Vater level depth at eginning of 2/15/07 Borehole dry
SS 17	X	<b>A</b>	13-17-12	19	155.8_	65-		CLAY (CL) - Yellow (2.5Y 8/6), moist, very stiff, low plasticity, contains abundant shell hash, +HCL		
SS 18	X	4	16-16-22	18	150.8_	70-		CLAY, with sand (CL)- Pale yellow (2.5Y 8/3), moist, hard, low plasticity, contains shell hash, +HCL		on of Halon
SS 19	×		50/4"	0	145.8_	75—		NO RECOVERY	Li	op of Utley mestone at a depth 72.0 feet
SS 20	X		26-50/5.5"	8		80-		*CLAY (CL) - Pale yellow (2.5Y 8/3), moist, hard, low plasticity, contains shell fragments, +HCL	L	oss of circulation at depth of 81.0 feet
SS 21	$\boxtimes$	•	26-50/1"	4	135.8_	85— -		SAA	 	on of Blue Bluff
SS 22			26-50/5"	11	133.4_	-		*CLAY, with shell fragments (CL)- Very dark greenish gray (GLEY1 3/5GY), moist, hard, low plasticity, +HCL Boring terminated at 89.42 feet		op of Blue Bluff arl at a depth of 7.0 feet
			1	l	SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	НС	B-4020



	TECHNICAL LOG	Vo		3 & 4 C	OL Project	JOB NO. 6141-	06-0286	SHEET NO.  1 OF	
OGGED BY	G. Pillappa	cc	OORDINATES	N 11420'	73.7 E 6212	280-3	BEGUN 2/16/200		COMPLETED 2/20/2007
RILLER	О. т шарра	DR	RILL MAKE AND	D MODEL	HOLE DIAM		HAMMER SE	RIAL NUMBER	R TOTAL DEPT
	Towe-MACTEC		C	ME-550	3 1	nches		337153	165.0
ROUND EL <b>222.6</b>	DEPTH/EL. GROUND WATE	R SITE	:		Vogtle Elect	ric Gen	erating Pl	ant - Wav	nesboro, GA
					5		- 3		<u> </u>
÷ o ⊞ o ⊀		N-COUNT	i) YS III	E S				N	NOTES ON: VATER LEVELS,
	ATT. LIMITS %	1st 6" 2nd 6" 3rd 6"	RECOVERY (in) ELEVATION IN FEET	DEPTH IN FT	DESCRIPTIO	lassification adi	usted based on	ION C	CHARACTER OF DRILLING AND
SA S	FINES %		PEC		laboratory t of sample b	esting data and/ y field geologis	or re-examination t/engineer)		ABORATORY ESTING
	20 40 60 80		222.6		SEE B-4020 I	OR LITI	HOLOGY TO	) 90.0	
				5- 10- 15- 20- 30- 35- 40- 45-					
 REPARED	BY: A. TAYLOR		SITE	Vogtl	e Units 3 & 4 C	OL Proje	ct	H	OLE NO.
	BY: P. DEPREE			, ogu	Final Log				B-4020A



GE	ΞC	OTECHNICAL LOC	-	ojec ogtl		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 OI	
SAMP. TYPE AND NO.	SAMPLE	○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -7- 2nd 6" 25 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 1		20 40 60 80	9-18-50/3" 11-18-18	18	132.6_	55— 60— 65— 70— 75— 80— 90— 95— 100—		CLAY, silty (CL-ML)- Dark greenish gray (GLEY) (GY), to damp, hard, low plasticity, contains trace phosphate grains and shell fragments, +HCL	Blue Bluff Marl
SS 3	X		21-17-33	18	OUT	105—		SAA except greenish gray (GLEY1 5/10GY)	
					SITE	V 397 of		e Units 3 & 4 COL Project Final Log	B-4020A



GEOTECHNICAL LOG PROJECT Vogtle Units 3 & 4 COL Proj								OB NO. 6141-06-0286	SHEET NO	). = <b>4</b>	HOLE NO. <b>B-4020A</b>
SAMP. TYPE AND NO.	N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" 2 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field classi	AND CLASSIFICAT ification adjusted based on g data and/or re-examination lid geologist/engineer)	ION	CHARA DRILLII	R LEVELS, ACTER OF NG AND ATORY
SS 4		50/2"	6		110-		SAA except gree dry	nish gray (GLEY1 5/	(5GY),		
SS <sup>2</sup>	<b>x</b>	50/4"	8		- - 115—		SAA			Water le	evel depth at 2/16/07 = Top
SS 5	<b>A</b>	13-19-30	18		120-		SAA			of casin	evel depth at ng of 2/19/07 eet
SS 7	_	50/2"	3		125—		SAA except cont and phosphate gr	ains abundant shell fi ains	ragments		
SS 8	•	12-19-41	18		130-		SAA except trace	e shell fragments			
SS <sup>2</sup>	<b>E</b>	50/4"	3.5		135—		SAA			Water le	evel depth at 2/19/07 = Top
SS 10	<b>A</b>	8-11-13	18		140-		SAA except gree to damp, very sti	nish gray (GLEY1 6/ ff	(10Y), dry	of casin	evel depth at ng of 2/20/07
SS 11	<b>A</b>	13-33-23	18		- - 145—		SAA except hard	I			
SS N	<b>A</b>	5-8-28	18		150-		SAA				
SS 13	<b>A</b>	5-7-13	18		155—		SAA except gree	nish gray (GLEY1 6/	(5GY)		
SS 14	<b>A</b>	7-11-9	18	62.1_	160-		SAA except cont	ains abundant shell fi	ragments		
ss	× •	8-16-33	18		- - -		SAND clayay (S	SC)- Very dark green	ish oray	Top of 3 Formati of 160.5	Still Branch ion at a depth 5 feet
<u> </u>	(N : : : :	1 2 10 33		SITE	398 of		e Units 3 & 4 COL Final Log	Project	ion glay	HOLE NO	0. <b>4020A</b>



GEOTECHNICAL LOG	PROJECT Vogtle	Units 3 & 4	COL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO 4 OF	
FINES %		_   _	DESCRIPTIO  (* = field c laboratory to of sample by	DN AND CLASSIFICAT classification adjusted based on esting data and/or re-examination y field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
FINES % 20 40 60 80	REC			), dry to damp, dense, leains trace shell fragments, -HCL ated at 165 feet	ow hts and	LABORATORY TESTING
	:	SITE Vo	ogtle Units 3 & 4 Co Final Log	OL Project		HOLE NO. <b>B-4020A</b>



GF	: ()	TECHNICAL LO	2	OJEC		2 0 4	-	21 B	JOB NO.	26.0206	SHEET NO		HOLE NO.
LOGGE			•		DINATES	3 & 4	C(	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	3 COMPL	B-4021
LOGGE		D. Brooks		OOK		N 114	309	92.6 E 6212	247 4	1/9/200	7	1/11/2	
DRILLE	R	D. Di ooks	D	RILL	MAKE AND			HOLE DIAN		HAMMER SE			TOTAL DEPTH
		Warren-MACTEC			C	ME-7	75	3 1	<b>Inches</b>		200587		150.0
GROU	ND E <b>24.</b>	$\nabla$ /	ER SITI	≣:				Vogtle Elect	rio Con	mating DI	ant Wa	unasha	ma CA
	Z <b>4.</b>	0 1/2						v ogue Elect	ric Gene	raung Fi	ant - wa	ynesbu	ro, GA
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %	1st 6" 'A 2nd 6" OO 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	H IN FT	GRAPHICS	DESCRIPTIO	ON AND CI	ASSIFICAT	ION		ON: R LEVELS, CTER OF
SAMF	SAI	+ ATT. LIMITS %		ECO	ELEV IN F	DEPTH IN	GRA	( * = field o laboratory t of sample b	classification adju- testing data and/or by field geologist/o	re-examination engineer)		LABOR	NG AND ATORY
		☐ FINES % 20 40 60 80		교	224.6							TESTIN	IG
SS 1	M		4-6-11	15	22 1.0			<b>SAND, with s</b> (5YR 4/4), dan	ilt (SP-SM	)- Reddish b	rown	Top of I	Barnwell
SS 2 SS		<b>^</b>	1-12-19	12	221.3			-HCL   SAA except y				0.0 feet	t a depth of
SS 3	X	<b>A</b>	7-10-9	13	219.1_	5-		nonplastic SAND (SP) - I damp, mediun -HCL	Reddish ve n dense, fin	llow (7.5YR) e grained, no	6/8), — — () onplastic,		
SS 4	X	^	8-11-19	16		=		SAND, with s (7.5YR 6/8), c plasticity, -HC	ilt (SP-SM lamp, dense	)- Reddish y e, fine graine	ellow d, low		
SS 5	X	<b>A</b>	6-9-13	16	214.1	10-		SAA except re					
SS 6	X	<b>A</b>	7-19-18	15		-		SAND (SP) - I	Red (2.5YF n grained, i	2 5/8), damp, nonplastic, -I	dense, HCL		
SS 7	X	<b>A</b>	9-13-16	13		15—		SAA except re medium dense	eddish yello e, medium g	ow (7.5YR 6/ grained	/8),		
					207.6_	-	111						
SS 8	X	<b>A</b>	4-6-8	15		20-		SAND, with s (5YR 6/8), dan medium grain	ilt (SP-SM mp, mediur ed, nonplas	)- Reddish y n dense, fine tic, -HCL	rellow to		
SS 9	X	A	3-7-10	13	197.6	25-		SAA except regrained	eddish yello	ow (7.5YR 6/	/8), fine		
SS 10	X	<b>A</b>	3-4-6	16		30-		SAND, with a (7.5YR 6/8), a grained, low p	clay (SP-SC lamp, medi lasticity, -I	C)- Reddish y um dense, fii ICL	yellow ne		
SS 11	X	<b>A</b>	3-4-5	19	192.6_	35-		CLAY, with s (10YR 6/8), di grained SANI	amp, stiff, l	Brownish yo	ellow , fine		
SS 12	X	<b>A</b>	3-4-7	17	187.6_	40-		SAND, with s (10YR 6/8), dinonplastic, -H	amp, medit	)- Brownish im dense, fin	yellow le grained,		
SS 13	X	<b>A</b>	2-3-5	16	177.6	45		SAA except lo	ow plasticit	y			
SS	X	<b>A</b>	3-6-8	14		-		<b>SAND, with c</b> (10YR 6/8), d	amp, medit	<u>im dense, fin</u>	e grained,		
		D BY: A. TAYLOR D BY: P. DEPREE			SITE	V	ogtl	e Units 3 & 4 C Final Log		t		HOLE NO	-4021
( V V IE	• • L	J J I I I I I I I I I I I I I I I I I I				400 of	<del>72</del> 4		<del>-</del>			<u></u>	1041



GE		TECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	C	JOB NO.   SH DL Project   6141-06-0286	HEET NO.	HOLE NO.  3 B-4021
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" I	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40 00 80			172.6_	-		low plasticity, -HCL		
SS 15	X	<b>A</b>	3-6-7	13	167.6_	55-		SAND, with silt (SP-SM)- Pale yellow (27/4), damp, medium dense, fine to medium grained, low plasticity, -HCL	2.5Y m	
SS 16	X	<b>A</b>	4-6-9	12	162.8_	60-		SAND (SP) - Pale yellow (2.5Y 7/4), dam medium dense, fine to medium grained, nonplastic, -HCL	np,	
SS 17	X	<b>A</b>	5-5-12	14		65-		SAND, with clay (SP-SC)- White (2.5Y) damp, medium dense, medium grained, lo plasticity, contains abundant shell fragme +HCL	8/1), ow ents,	
SS 18	X	<b>A</b>	26-28-43	14	152.6	70 <del>-</del>		SAA except very dense, fine grained		
SS 19		,	50/1"	0		75—	· • • ·	NO RECOVERY		Top of Utley Limestone at a depth of 72.0 feet
SS 20	X	<b>A</b>	2-3-14	15	147.6_ 142.6_	80-		CLAY, sandy (CL)- White (2.5Y 8/1), d very stiff, low plasticity, fine grained SAY contains abundant shell fragments, +HCL	lamp, ND,	Loss of circulation at a depth of 80.0 feet
SS 21	X		9-1-50/2"	6	138.1	85-		SAND (SP) - White (2.5Y 8/1), damp, verdense, nonplastic, contains abundant shell fragments, +HCL		Installed 3" steel casing to a depth of 85.0 feet.
SS 22	$\boxtimes$		34-50/3"	20		90-		SILT (ML) - Greenish gray (GLEY2 5/1) damp, hard, nonplastic, +HCL	),	85.0 feet. Top of Blue Bluff Marl at a depth of 86.5 feet  Water level depth at beginning of 1/11/07 = 63.33 feet
SS 23	X	<b>A</b>	8-15-21	22		- - 95—		SAA		= 63.33 feet
SS 24	X	<b>A</b>	12-19-30	23		100-		SAA		
SS 25	X	<b>A</b>	11-17-20	22		105-		SAA		
			<u> </u>		117.6_ SITE	V 401 of	_	e Units 3 & 4 COL Project Final Log	<u></u>	HOLE NO. <b>B-4021</b>



GEOTECHNICAL LOG PROJECT Vogtle Units 3 & 4 COL Project OF SHEET NO SHEET NO 3 OF N-VALUE (SPT)												
SAMP. TYPE AND NO.	SAMPLE		lst 6"	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING			
SS 26	=		50/2"	0	112.6_	110-		NO RECOVERY				
SS 27	X	<b>A</b>	10-21-26	22	112.0_	115-		SILT (ML) - Greenish gray (GLEY2 5/1), damp, hard, nonplastic, +HCL				
SS 28	X	<b>A</b>	13-21-27	24	102.6_	120-		SAA				
SS 29	×	_	50/2"	0	97.6_	125-		NO RECOVERY				
SS 30	$\boxtimes$	4	24-50/3"	14	7715_	130-		SAA except low plasticity				
SS 31	X		24-50/5"	14		135—		SAA				
SS 32	X	<b>A</b>	15-34-36	22		140-		SAA				
SS 33	X	<u> </u>	15-20-23	23	77.6_	145-		SAA				
SS 34	X	<b>A</b>	14-14-21	22	74.6_	150-		CLAY, silty (CL-ML)- Greenish gray (GLEY2 5/1), damp, hard, low plasticity, +HCL Boring terminated at 150 feet				
		: : : :		<u> </u>	SITE	V 402 of		Final Log	HOLE NO. <b>B-4021</b>			



GE	ОТ	ECHNICAL LO	C	OJEC ogtl		3 & 4	CC	OL Project	JOB NO. <b>6141-0</b>	06-0286	SHEET NO		HOLE NO. <b>B-4022</b>
LOGGE	D BY				DINATES			•	1	BEGUN		COMPL	ETED
DRILLE	R	D. Atkinson	D	RILL	MAKE AND			B1.3 E 6210 HOLE DIAM		1/7/200 HAMMER SE		1/9/2 BER	007 TOTAL DEPTH
		arren-A.E. Drilling			C	ME-7	50	3 I	nches		328848		148.7
GROUN 22	ID EL. 2 <b>0.7</b>	DEPTH/EL. GROUND WAT	TER SITI	E:				Vogtle Elect	ric Gene	rating Pl	ant - Wa	vnesbo	ro, GA
	T	÷ /								<u></u>		19 = = = = = =	
). PE .		N-VALUE (SPT)	N-COUNT	RECOVERY (in)	NO T	I FT	SS					NOTES	
J.Ö	Σ	WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	VER	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTIO			ION	CHARA	LEVELS, CTER OF
SAMP. TYPE AND NO.		ATT. LIMITS %		ECO	ELE	DEP.	GR/	laboratory to of sample b	lassification adjust esting data and/or y field geologist/o	re-examination engineer)		LABOR	
	<u></u>	FINES % 20 40 60 80			220.7							IESTIN	G
SS 1			2-1-2 3-3-3	16 20		_		<b>SAND, with s</b> (5YR 5/8), dar	ilt (SP-SM np, very lo	)- Yellowish ose, fine gra	red ined,	Group a	Barnwell t a depth of
SS 2 SS	A					-		nonplastic SAA except re	ddish yello	ow (7.5YR 6/	/8), loose	0.0 feet	
SS 3			2-4-7	17	215.2	5—		SAA except m grained	edium den	se, fine to m	edium		
SS	X	<b>A</b>	14-17-19	12	213.2_	-		SAND, clayey dense, fine gra	(SC)- Rec	(2.5YR 4/8	 ), damp,		
SS S		<b>A</b>	14-19-21	13	212.7_	_							
5	Ä				210.2_	10-		SAND, with sidamp, dense, f	ine grained	l, nonplastic		-	
SS 6	X		9-12-17	16		-		SAND, clayey medium dense	(SC) - Rec	l (2.5YR 4/8 ed, nonplasti	), damp,		
SS		<b>A</b>	9-15-14	10		-		SAA except re	d (2.5YR 5	5/8)			
7						15-							
					203.7_	-						_	
SS 8	X	<b>A</b>	6-7-9	12		_		<b>SAND, with s</b> (10YR, 6/6), da	ilt (SP-SM	)- Brownish	yellow		
8					100 5	20-		grained, nonpl	astic	iiii dense, iiie	arum		
					198.7_	-							
SS 9		<b>`</b>	5-6-5	10		25-		SAND, clayey 6/6), damp, me	(SC)- Bro	wnish yellov e, fine grain	w (10YR ed,		
					193.7	-		nonplastic					
				4.0	1,0.,_	-							
SS 10	<u> </u>		3-2-4	18		30-		CLAY, sandy moist, medium SAND	(CL)- Yel stiff, low	low (2.5Y 7) plasticity, fir	(6), ne grained		
					188.7_	-							
SS	_ ▲		2-3-3	24		_		CLAV with s	and (CH)-	. Vellow (2.5	(V 7/6)		
11	Ä					35—		CLAY, with s moist, medium grained SAND	stiff, high	plasticity, fi	ne ,		
						-							
SS	$\overline{\vee}$		2-3-3	22		-		SAA except ve medium plastic	ery pale bro	own (10YR 7	7/4),		
12						40-		medium plastic	city, -HCL				
					178.7_	-							
SS 13			3-4-5	15		-		SAND, clayey moist, loose, fi	(SC)- Yel	low (10YR 7	7/6), asticity		
13					1727	45 —			Drained	,earam pic			
					173.7_	<u> </u>							
SS		<u> </u>	5-6-5	13	OUTE	_		SAND, with s 6/3), wet, med			n (10YR ined,		
		Y: A. TAYLOR Y: P. DEPREE			SITE	V	ogtl	e Units 3 & 4 CC Final Log		t		HOLE NO	-4022
					1	403 of	<del>724</del>		<i>.</i>			-	



GE	Ξ	OTECHNICAL LOG	<u>•</u>	ogtl		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 O	
SAMP. TYPE AND NO.	SAMPI E	11	1st 6" 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40 00 00			168.7_	-		nonplastic, -HCL	
SS 15	X		6-6-5	11		- 55 — -		SAND, with clay (SP-SC)- Brownish yellow (10YR 6/6), wet, medium dense, medium grained, nonplastic, -HCL	Loss of circulation at a depth of 56.0 feet
SS 16	X	<b>A</b>	4-5-7	14		60-		SAA except yellow (10YR 7/6), fine to medium grained, low plasticity	a departor 50.0 rect
SS 17	X		5-5-4	13	153.7_	65-		SAA except loose, medium to coarse grained, nonplastic	Loss of circulation at
SS 18	X		3-2-2	24	148.7_	70 <del>-</del>		CLAY, with sand (CL)- Pale yellow (5Y 7/4), wet, soft, medium plasticity, fine grained SAND, -HCL	a depth of 66.0 feet  Water level depth at end of 1/7/07 = 25.0 feet  Water level depth at beginning of 1/8/07 = Borehole dry.
SS 19	X		5-7-10	14	143.7_	75—		SAND, with silt (SP-SM)- Brown (7.5YR 5/4), wet, medium dense, fine to medium grained, -HCL	Boring caved to 25.0 feet Installed casing to a depth of 38.0 feet  Casing advanced to a depth of 45.0 feet
SS 20	X		3-4-3	14	139.2_	80-		SAND (SP) - Very pale brown (10YR 7/4), wet, loose, fine to medium grained, -HCL	Casing advanced to a depth of 55.0 feet
SS 21	Σ		OH/12"-50/	1'16	122.2	85—		CLAY, silty (CL-ML)- Dark yellowish brown (10YR 3/4), wet, very soft, low plasticity, contains shell fragments, +HCL	Top of Utley Limestone at a depth of 81.5 feet  Water level depth at end of 1/8/07 = 48.0 feet
SS 22	X		21-26-32	24	133.2_ 128.7_	90-		SILT (ML) - Greenish gray (GLEY1 6/5G), wet, hard, nonplastic, contains cementation, +HCL	Top of Blue Bluff Marl at a depth of 87.5 feet Water level depth at beginning of 1/9/07 = 52.0 feet
SS 23	X	•	13-15-17	24		95—		CLAY, silty (CL-ML)- Greenish gray (GLEY1 6/10GY), wet, hard, low plasticity, +HCL	52.0 160
SS 24	X	<b>A</b>	21-17-25	24		100-		SAA except greenish gray (GLEY1 5/5GY), medium plasticity, contains shell fragments	
SS 25	X	<b>A</b>	14-16-19	24		105—		SAA except greenish gray (GLEY1 5/10Y)	
		. : : <u>: L</u>			SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4022</b>



GE	OTECHNICAL LO	$oldsymbol{\cap}$	OJEC		2 0 4		OI D : 4	JOB NO.	SHEET NO		HOLE NO.
			ogtl	e Units	3 & 4	C	OL Project	6141-06-0286	<b>3</b> OF	3	B-4022
SAMP. IYPE AND NO. SAMPI F	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field c	DN AND CLASSIFICAT classification adjusted based on esting data and/or re-examination by field geologist/engineer)	ION	CHAR DRILL	R LEVELS, ACTER OF ING AND RATORY
SS X		12-15-50/1"	18		110-		SAA except hi fragments	igh plasticity, contains n	o shell		
SS X	<b>A</b>	25-26-30	24		115—		SAA except lo fragments	ow plasticity, contains tr	ace shell		
SS 28	3	39-50/1"	8	00.7	120-		SAA except co	ontains no shell fragmer	nts		
SS 29	<b>A</b>	7-10-14	24	98.7_	125—		CLAY (CH)- wet, very stiff,	Greenish gray (GLEY1 high plasticity, +HCL	6/10Y),		
SS X		12-19-50/2"	15	00.7	130-		SAA except ha	ard, contains cementation	n		
ss ×		42-50/4"	14	88.7_	135—		CLAY, silty ( (GLEY1 7/100 +HCL	CL-ML)- Light greenis GY), wet, hard, low plas	h gray sticity,		
SS 32	<b>A</b>	10-12-22			140-		SAA except gr low to mediun	reenish gray (GLEY1 6/ n plasticity	(10Y),		
SS X	<b>A</b>	15-19-31	24		145—		SAA except gr medium to hig	reenish gray (GLEY1 5/ th plasticity	(10Y),		
SS 34	•	50/2"	2	72.1_	_		SAA except li 7/5GY), media Boring termina	ght greenish gray (GLE um plasticity ated at 148.66 feet	Y1		
				SITE	17	004]	e Units 3 & 4 C	OI Project		HOLE N	NO.
					405 of		Final Log				<b>3-4022</b>



GE	ОТ	ECHNIC	AL LO	C	OJEC		2 & 1		OL Project	JOB NO.	06-0286	SHEET NO		HOLE NO. <b>B-4023</b>
LOGGEI	D BY					DINATES	3 CC 4		JL I TOJECT	0141-0	BEGUN	<b>1</b> OF	COMPI	
		D. Atkin	son						62.4 E 6208		1/10/200		1/12/	
DRILLE			ъ ш	D	RILL	MAKE AND			HOLE DIAM		HAMMER SE		ER	TOTAL DEPTH
GROUN		arren-A.E.	Drilling GROUND WA	TER SITI	F·	<b>C</b>	ME-7	50	31	nches		328848		150.0
	0.7	☑ / ▼ /	CITO CITO TOTAL	TEIX OIT					<b>Vogtle Elect</b>	ric Gene	erating Pla	ant - Wa	ynesbo	oro, GA
SAMP. TYPE AND NO.		N-VALUE (SF	PT)	N-COUNT	RECOVERY (in)	Z_	FT	တ္သ					NOTES	
T ON	SAMPLE + O	WATER CON	ITENT %	1st 6" 2nd 6" 3rd 6"	ŒR	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTIO	N AND CI	ASSIFICAT	ION		R LEVELS, ACTER OF
AMP	SAN +	ATT. LIMITS	%	3 2	00	N E	≘PTI	) KAI	( * = field c	assification adju				NG AND ATORY
S		FINES %			뀖	Ш	D		of sample by	field geologist/	engineer)		TESTIN	
SS		20 40 6	60 80	5-11-9	12	220.7		XXX	GRAVEL, wi	th sand (C	'D\ Dork ora	aniah	Ton of	Fill at a depth
1 1 4	X	<b>A</b>		7-9-9	18	219.2_	-		gray (GLEY1- fine to medium	4/10Y), da	mp, medium	dense,	of 0.0 f	eet
	X						-	$\bowtie$	SAND, clayey medium dense SAA except re	(SC) - Red	1 (2.5YR 4/6)	), damp,		
	X			9-10-9	10		-	$\bowtie$	SAA except re	d (10R 4/6	), nonplastic	icity		
ss		<b>A</b>		6-10-14	10	215.2_	5-	$\sim$	GRAVEL (GI					
4	X			0 10 11		212.7_	-		GRAVEL (GI	r)- Mediui	ii delise			
ss	$\sqrt{}$	<b>A</b>		14-15-15	12		-		SAND, with si	ilt (SP-SM	– – – – – – I)- Red (10R	4/8),	Top of Group a	Barnwell at a depth of
5						210.2_	10-		H <sup>-</sup>				8.0 feet	•
	X			6-8-9	4	207.7	-		SAND, clayey medium dense	(SC) - Red	d (2.5YR 5/8) led, nonplasti	), moist, c		
ss		<b>A</b>		5-10-10	10	207.7_	-							
7	X						15-		SAND, with si (7.5YR 5/6), n	noist, medi	um dense, fir	ne R 5/6)		
						203.7_	-		grained, contain CLAY lenses					
							-							
	√ 1			4-6-7	12		20-		* <b>SAND, claye</b> (7.5YR 7/8), n	y (SC) - Re	eddish yellow um dense, fir	v ne		
							20-		grained, nonpl	astic	,			
							-							
ss	, K	<b>▲</b> □		4-7-7	8		_		SAA except br	ownish ye	llow (10YR 6	6/8)		
9 2							25 —							
						193.7_	-							
ss				4-4-6	10		-		CLAV silty (	CL-ML)-	Brownich vel	llow		
10	X						30-		<b>CLAY, silty (</b> (10YR 6/8), m	oist, stiff, l	high plasticit	y		
						188.7_	-							
	] ,						-							
SS 11				4-6-6	12		35-		SAND, with c (10YR 6/8), da medium grains	lay (SP-SC ımp, medit	C)- Brownish ım dense, fin	yellow e to		
						184.7_	-		medium graine	ed, nonplas	tic, contains	CLAY 		
							-	1111						
SS	X			10-11-12	12		-	-	<b>SILT (ML)</b> - I 7/1), moist, ve	ight green	ish gray (GL	EY1		
12 2							40-	1	hash, +HCL	ry surr, no	npiastic, com	anis snen		
						178.7_	-	Щ	<u> </u>					
ss		<b>A</b>		7-9-11			-		SAND, with s	ilty clav (S	SP-SC)- Ligh	t		
13	$\Delta$						45 —		SAND, with s greenish gray ( dense, fine gra contains trace	GLEY1 7/ ined, low t	(10Y), wet, m	nedium asticity,		
						173.7_	-		contains trace	shell fragm	nents, +HCL —————			
00 1		<b>A</b>		11-14-18	14		-	$\left\{ \left  \cdot \right  \right $	CHT '4	ad (MT)	Light au	h orar		
SS	X	· · · · · · · · · · · · · · · · · · ·		11-14-10	14	SITE		Щ	SILT, with sa (GLEY1 8/10)			on gray c, contains	HOLE VI	
		Y: A. TAYLOR Y: P. DEPREE				SILE	V	ogtl	e Units 3 & 4 CO Final Log		τ		HOLE NO	- <b>4023</b>
						I	406 of	724		·				<b></b>



GE	EOTECHNICAL LO		OJE(		3 & 4 (	JOB NO. SHEET NO. SHEET NO. 2 OF	
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 60 80			168.7_		shell fragments, +HCL	Water level depth at end of 1/10/07 = Top of casing
SS 15		10-12-14	15	163.7	55	SAND, with silt (SP-SM)- Pale yellow (5Y 8/4), wet, medium dense, contains shell fragments, +HCL	Water level depth at beginning of 1/11/07 = 46.0 feet
SS 16	<b>A</b>	10-22-25	14	103.7_	60-	SILT, with sand (ML)- Pale yellow (5Y 8/2), wet, hard, nonplastic, fine grained SAND, contains shell fragments, +HCL	
SS 17	×	50/4"	4		65 —	SAA except very fine grained SAND	
SS 18	<b>A</b>	15-19-20	17	153.7_	70-	SAND, with clay (SP-SC)- Pale yellow (5Y 8/3), wet, dense, fine grained, contains shell fragments, +HCL	
SS 19		16-20-21	15	148.7_	75-	SAND (SP) - Pale yellow (5Y 8/4), wet, dense, medium grained, -HCL	
SS 20	<b>A</b>	9-6-1	8		80-	SAA except pale yellow (2.5Y 7/3), loose, fine grained	
SS 21		20-4-7	6	138.7_	85-	SAND, with clay (SP-SC)- Pale yellow (5Y 8/3), wet, medium dense, fine to medium grained, contains shell fragments, +HCL	
SS 22	<b>A</b>	9-19-29	24	132.4_	90-	CLAY, silty (CL-ML)- Dark greenish gray (GLEY1 4/10Y), wet, hard, medium plasticity, +HCL	Loss of circulation at a depth of 88.0 feet Top of Blue Bluff Marl at a depth of 88.3 feet
SS 23	X	15-39-50/4	24		95—	SAA	
SS 24		11-15-26	24		100-	SAA except low to medium plasticity, contains trace shell fragments	
SS 25	×	22-50/2"	6		105—	SAA except greenish gray (GLEY1 5/10GY), medium plasticity	Water level depth at beginning of 1/12/07 = 54.0 feet
				SITE	Vog	tle Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4023</b>



GE	EC	TECHNICAL LO	<u> </u>	OJE(		3 & 4	C C	JOB NO. SHEET 6141-06-0286 3	NO. OF <b>3</b>	HOLE NO. <b>B-4023</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - 5 2nd 6" 0 3rd 6" - 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NC W/ CH DF LA	OTES ON: ATER LEVELS, HARACTER OF RILLING AND BORATORY STING
SS 26	X	<b>A</b>	11-11-26	18		110-		SAA except greenish gray (GLEY1 5/5G), medium to high plasticity		
SS 27	X	<b>A</b>	37-17-27	18		115-		SAA except greenish gray (GLEY1 5/5GY), medium plasticity, contains cementation and n shell fragments	0	
SS 28	X	<b>A</b>	20-26-32	20		120-		SAA except greenish gray (GLEY1 6/5GY), high plasticity, contains trace shell fragments and no cementation		
SS 29	X	<b>A</b>	15-19-27	15	93.7_	125-		SAA		
SS 30	X	•	42-50/5"	11	93.7_	130-		CLAY (CH) - Greenish gray (GLEY1 6/10Y), wet, hard, high plasticity, +HCL		
SS 31	X	<b>A</b>	17-18-31	18	92.7	135-		SAA except greenish gray (GLEY1 6/5GY)		
SS 32	X	<b>A</b>	20-22-26	13	83.7_	140-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 6/5GY), wet, hard, low plasticity, +HCL	_	
SS 33	X	<b>A</b>	12-20-36	16		145-		SAA except greenish gray (GLEY1 5/10Y), medium plasticity		
SS 34	X	<b>A</b>	13-15-15		70.7_	150-		SAA except light greenish gray (GLEY1 7/10Y), very stiff, medium to high plasticity Boring terminated at 150 feet		
					SITE	V	  ogtl	e Units 3 & 4 COL Project Final Log	НО	B-4023



GEC	OTECHNICAL L	$OG_{\mid V_0}$	_	e Units	3 & 4	CC	L Project	JOB NO. <b>6141-</b>	06-0286	SHEET NO 1 OF		HOLE NO. <b>B-4024</b>
LOGGED DRILLER	S. Woodham			DINATES  MAKE AND			4.8 E 6206		1/15/200 HAMMER SI	07 ERIAL NUMB	1/17/	LETED / <b>2007</b>  TOTAL DEPTH
GROUND	Warren-A.E. Drillin			<b>C</b> ]	ME-7	50	3 I	nches		328848		150.0
223	$\nabla$ /	WATER SITE	Ξ.			,	Vogtle Elect	ric Gen	erating Pl	ant - Wa	ynesbo	oro, GA
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" -C 3rd 6" -E	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC ( * = field c laboratory to of sample b	lassification adia		TION	CHARA DRILLI	R LEVELS, ACTER OF NG AND RATORY
ss V	20 40 60 80	5-7-8	19	223.8 223.3-		XXX	SAND silty a	olayay (SC	SM) Pad (	2.5 VD	Top of	Fill at a depth
SS 2 SS 3 SS V	<b>A</b>	6-9-9 6-7-7	18 12	223.3 <u>-</u> 222.8	- - - 5—	a VI	SAND, silty, c \4/8), damp, me GRAVEL, wi dark gray (GL) SAND, silty (S damp, medium SAA except st SAA except da SAA except da	th silt and EY 1 3/N) SM)- Yellondense, fir rong brow Simp	sand (GP-C), damp, mediow (10YR 7/) ne grained n (7.5 YR 5/5	GM) Very um dense 8), 8), dry	of 0.0 f Top of Group 1.0 feet	Fill at a depth eet Barnwell at a depth of
4		1.12	12		-		SAA except ye	2110W (101	K //0), very	loose		
	<b>A</b>	1-2-6	19	212.8_	10-		SAA except ye		d (5YR 4/6),	loose		
$\begin{bmatrix} ss \\ 6 \end{bmatrix}$		1-3-4	0	210.8_	-		NO RECOVE	CRY				
$\begin{bmatrix} ss \\ 7 \end{bmatrix}$		8-9-9	18		15—		SAND, silty (S	SM)- Yello n dense, fir	owish red (5) ne grained	YR 4/6),		
SS 8	<b>A</b>	5-8-11	17	206.8_	20-		SAND, silty, c 5/8), damp, me grained	elayey (SC	-SM)- Red (se, fine to co	 2.5YR arse		
SS 9		8-11-10	16	196.8_	25—		SAND, silty (\$\) (10YR 6/4), da coarse grained	SM)- Ligh	t yellowish b um dense, fir	rown ne to		
SS 10	<b>A</b>	2-4-6	18	191.8_	30-		CLAY (CH) - high plasticity, less than .25",	Yellow (2 , contains t -HCL	.5Y 7/6), dar hin sands sea	mp, stiff, ams of		
ss 11	<b>A</b>	4-4-4	20		35-		CLAY, sandy damp, stiff, his seams of less t	(CH)- Yegh plasticit han .25", -	ellow (2.5Y 7 cy, contains the HCL	7/6), nin sands		
SS 12	<b>A</b>	2-4-5	26	181.8_	40-		SAA					
SS X	<b>A</b>	2-4-5	18		45 —		SAND, silty, c 7/6) damp, loo shell fragments	elayey (SC) se, fine gr s, +HCL	-SM)- Yello ained, contai	w (10YR ns white		
ss 🛚	<b>A</b>	5-7-8	16		- -		SAA except ye fine to medium	ellow (2.5)	7/6), mediu	ım dense,		
	ED BY: A. TAYLOR			SITE	V	ogtle	Units 3 & 4 C	OL Projec	-ncl, no she t	211	HOLE N	
REVIEWE	ED BY: P. DEPREE				409 of	<del>724</del>	Final Log	5			В	3-4024



GE		TECHNICAL LO	<u> </u>	OJE(		3 & 4	l CO	JOB NO.   SH DL Project   6141-06-0286	HEET NO.  2 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" 00 3rd 6" 1x	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40 60 80			171.8_	-		fragments		
SS 15	X	<b>A</b>	6-6-5	15		55—		<b>SAND, silty (SM)</b> - Yellowish brown (10 5/6), damp, medium dense, fine to coarse grained	)YR	
SS 16	X	4	8-9-10	16		60-		SAA except fine to medium grained		
SS 17	X	<b>A</b>	5-9-10	17	1500	65-		SAA except olive yellow (2.5Y 6/6)		Water level depth at end of 1/15/07 = Ground surface
SS 18	X	<b>A</b>	7-13-11	0	156.8_	70-		NO RECOVERY		Ground surface Water level depth at beginning of 1/16/07 = 5.0 feet
SS 19	X	<b>A</b>	8-7-16	18	151.8_ 149.8_	- - 75 –		SAND, silty, clayey (SC-SM)- Dark graph brown (2.5Y 4/2) damp, loose, fine to me grained, -HCL SAND, silty (SM)- Light yellowish brow (2.5Y 6/3), most, medium dense, fine to medium grained HCI	yish edium vn	
SS 20	×		50/2"	2	145.8_	80-		medium grained, -HCL	4),	Top of Utley Limestone Formation at a depth of 78.0 feet Loss of circulation.
SS 21	X	<b>A</b>	11-11-45	16	141.8_ 136.8_	85 —		SAND, clayey (SC)- Pale yellow (2.5Y 8 damp, very dense, fine to medium graine contains some shell fragments and cemer areas, +HCL	8/2), ed, nted	
SS 22	$\boxtimes$		27-50/3"	10	132.8_	90—		SAND, with silty clay (SP-SC)- Pale yel (2.5Y 8/2), moist, very dense, fine to coa grained, +HCL	llow rse	Water level depth at beginning of 1/17/07 = 5.0 feet
SS 23	X	<b>A</b>	23-39-46	26		- - 95 –		<b>CLAY (CH)</b> - Greenish gray (GLEY 1 5/5GY), damp, hard, high plasticity, +HC		= 5.0 feet Top of Blue Bluff Marl at a depth of 91.0 feet Installed casing to a depth of 91.5 feet
SS 24	X	<b>A</b>	15-16-19	26		100-		SAA		
SS 25	X	<b>A</b>	19-19-26	26	116.0	105-		SAA except contains white shell fragmer	nts	
					116.8_ SITE	V 410 of	ogtlo	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-4024</b>



GE	0	TECHNICAL LO	~	OJEC ogtl		3 & 4	l C(	JOB NO. SHEET NO. 6141-06-0286 3 OF		HOLE NO. <b>B-4024</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" ±	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field ecologis/enginer)	NOTE: WATE CHAR DRILL	S ON: R LEVELS, ACTER OF ING AND RATORY
SS 26	×	20 40 60 80	50/5"	7		110-		CLAY, with sand (CH) Greenish gray (GLEY 15/5GY), dry, hard, high plasticity, contains white shell fragments, +HCL		
SS 27		•	50/1"	1		115-		SAA except no shell fragments		
SS 28	X	<b>A</b>	19-22-21	26		120-		SAA except contains some cemented areas		
SS 29	X		23-50/6"	17		125-		SAA except light greenish gray (GLEY 1 7/10Y), damp, contains white shell fragments		
SS 30	×	•	50/5"	7	01.0	130-		SAA		
SS 31	X		48-22-50/3"	24	91.8_	135-		CLAY, with sand (CL)- Greenish gray (GLEY 1 6/10Y), damp, hard, low plasticity, +HCL		
SS 32	X	<b>^</b>	33-23-37	26	86.8_	140-		CLAY, with sand (CH)- Greenish gray (GLEY 1 6/10Y), damp, hard, high plasticity, +HCL		
SS 33	X	A	19-23-35	26		145-		SAA		
SS 34	X	<b>A</b>	8-8-22	26	73.8_	150-		SAA Boring terminated at 150.0 feet		
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE N	o. <b>3-4024</b>



GE	ΞC	TECHNICAL LO	<u> </u>	OJE		3 & 4	CC	OL Project	JOB NO.	06-0286	SHEET NO		HOLE NO. <b>B-4025</b>
LOGG	ED I	BY			DINATES	<i>3</i> & <del>1</del>		JL 110ject	0141-0	BEGUN	1 OF	COMP	
		M. Harvey						10.0 E 6206		2/3/200		2/4/2	
DRILL	ER	W. MACTEC	D	RILL	MAKE AND			HOLE DIAM		HAMMER SE		ER	TOTAL DEPTH
GROU	ND	Warren-MACTEC EL. DEPTH/EL. GROUND WAT	ER SITI	F.	C	CME-7	5	31	nches		211797		150.0
	20.	$\nabla$ /						Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesb	oro, GA
										-			
뷥		▲ N-VALUE (SPT)	N-COUNT	RECOVERY (in)	N.	ե	တ္သ					NOTES	
75	PLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ERY	ATIC EET	르	爿	DESCRIPTION	N AND CI	ASSIFICAT	ION		R LEVELS, ACTER OF
SAMP. TYPE AND NO.	SAMPLE	+ ATT. LIMITS %	3 2 %	δ	ELEVATION IN FEET	DEPTH IN	GRAPHICS	( * = field c	lassification adju	sted based on	IOIV	DRILLI	NG AND RATORY
s'		☐ FINES %		RE(	Ш		9	of sample b	esting data and/or y field geologist/	engineer)		TESTI	
	$\bigcup$	20 40 60 80	5-10-11	18	220.8		W.	CD LVIII				T. 0	T211 . 1 .1
SS 1	M		7-10-12	18	219.8_	-		GRAVEL SAND, with s	ilt (SP-SM	)- Reddish y	ellow	of 0.0 f	Fill at a depth eet Barnwell
SS 2 SS	М		/-10-12	16	217.6			(7.5YR 6/8), d SAA	ry, mediun	í dense, fine	grained	Group 1.0 feet	at a depth of
SS 3	X		6-9-12	0				NO RECOVE				1.0 166	•
			8-9-10	10	215.3_	5-	7//			1 (2 5¥F) 5 (0			
SS 4	M		8-9-10	10				SAND, clayey reddish yellow	(SC)- Red (7.5YR 6/	1 (2.5 Y R 5/8 6), damp, m	) and edium		
SS	$\mathbb{H}$	<b>A</b>	3-6-5	5				dense SAA					
5	А				210.3_	10-							
SS 6	X		16-12-17	11				SAND, silty (S	SM)- Yello	owish red (5)	YR 5/8),		
			8-10-13	0	207.8_	+							
SS 7	M		8-10-13	0		15-		NO RECOVE	CRY				
					203.8	-							
					203.6_							Installe	d 3" steel
SS 8	M	<b>A</b>	7-10-9	8		-		<b>SAND, with s</b> (5YR 5/8), dry	ilt (SP-SM	)- Yellowish	red	17.0 fe	to a depth of et
8	П					20		(31K 3/8), ury	, medium (	uense			
					198.8_								
SS	$\mathbb{H}$	<b>A</b>	3-4-5	10				SAND, clavey	(SC)- Red	ldish vellow	(7.5YR		
9	Å					25		SAND, clayey 6/8), damp, loo	ose, contain	is CLAY len	ises		
				4.0		-							
SS 10	M	- Till i i i i i i i i i i i i i i i i i	3-4-6	18		30		SAA except pa	ale yellow	(5Y 7/3), dry	7		
SS	M	<b>▲</b>	2-2-3	18		-		SAA except fi	ne grained				
11	H					35							
SS	H	<b>A</b>	1-2-3	19				SAA except -I	HCL				
SS 12	А					40-							
~-		<b>A</b>	0.7.10	10		-			,	(EXT. C. (E.)			
SS 13	$\mathbb{A}$		8-7-10	16		45		SAA except pa dense, contain	ate yellow o s shell frag	(5 Y 8/2), me ments, +HC	dium L		
						-15							
SS	M	<b>A</b>	3-3-9	14		-		SAA except co	ontains SIL	T lenses			
PREP	ARE	ED BY: A. TAYLOR	1		SITE	V	ogtle	e Units 3 & 4 C		t		HOLE N	
REVIE	WE	D BY: P. DEPREE				412 of	<del>794</del>	Final Log	5			В	<u>-4025</u>
						2 01	7						



GE	OTECHNICAL LOC	•	OJEC ogtl		3 & 4	C	OL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO		HOLE NO. <b>B-4025</b>
SAMP. TYPE AND NO.		1st 6" -7 2nd 6" 05 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field cl	ON AND CLASSIFICAT lassification adjusted based on esting data and/or re-examination y field geologist/engineer)	TION	WATE CHAF DRILL	ES ON: ER LEVELS, RACTER OF LING AND RATORY ING
14 SS		4-6-7	14	168.8_	-		SAND, silty (S	<b>SM)</b> - White (5Y 8/1), d	amp,		
15				163.8_	55— - -		medium dense	,+HCL			
SS 16	X •	5-6-7	15	158.8_	60-		SAND, clayey medium dense	(SC) - White (5Y 8/1), fine grained, +HCL	damp,		
SS 17	<b>A</b>	8-8-6	9	136.6_	65—	<del>\</del>	*SHELL HAS	SH, silty (GM)- White ense, +HCL	(5Y 8/1),		of circulation at h of 62.0 feet
SS 18	<b>A</b>	2-2-5	2	153.8_	70-		*CLAY, with yellow (5Y 8/2	shell fragments (CL). 2), damp, medium stiff,	Pale +HCL		
				148.8_	70-					_	
SS 19	X <sup>†</sup>	WOR/18"	18	142 0	75— -		CLAY (CL)- contains SANI	Pale yellow (5Y 8/2), v D lenses	ery soft,		
SS 20	<b>A</b>	7-8-9	14	143.8_	80-		SAND, with si wet, medium d	ilt (SP-SM)- White (5Y lense, -HCL	 7 8/1),		
SS 21	×	6-50/2"	8		85—		SAA except will 7/2), very dens	hite (5Y 8/1) to pale rese	d (10R		
SS 22		50/1"	1	133.8_	90-		*SHELL HAS (5Y 8/2), wet,	SH, clayey (GC)- Pale very dense, +HCL	yellow	Top o Limes of 87.	f Utley stone at a depth 0 feet
SS 23	<b>A</b>	7-13-16	18	129.1_	95—		<b>CLAY (CL)</b> - 5/1/10Y), dam	Greenish gray (GLEY1 p, very stiff		Top o Marl a 91.75	f Blue Bluff at a depth of feet
SS 24		50/1"	11		100-		SAA except ha	ard		Water	laval danth of
					- - -					Groun	level depth at $12/3/07 = 12/3/07$ and surface
SS 25	<b>-</b>		8		105-		SAA			Water begins 56.2 f	level depth at ning of 2/4/07 = eet
				113.8_ SITE	V 413 of		e Units 3 & 4 CO Final Log			HOLE I	NO. <b>3-4025</b>



GE	EC	OTECHNICAL LOG	•	OJEC Ogtl		3 & 4	l C(	JOB NO. SHEET NO <b>6141-06-0286 3</b> OF	
SAMP. TYPE AND NO.	SAMPLE		2nd 6" 5 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	_	<b>├</b>	50/1"	0	108.8_	110-	-	NO RECOVERY	
SS 27		<u> </u>	50/1"	8	100.6_	115-		SAA	
SS 28			50/1"	8	98.8_	120-		SAA	
SS 29			50/1"	0	93.8_	125-	-	NO RECOVERY	
SS 30		<b>.</b>	50/1"	6		130-		SAA	
SS 31	X		11-11-15	18		135-		SAA	
SS 32	X	<b>A</b>	17-26-27	15	79.8_	140-		SAA	
SS 33	X	,	17-24-39	0	73.8_	145-	-	NO RECOVERY	
SS 34	X		5-35-50/6"	18	70.8_	150-		CLAY (CL) - Greenish gray (GLEY1 6/1/10Y), damp, hard, medium plasticity, +HCL Boring terminated at 150 feet	Water level depth at end of 2/4/07 = Ground surface
					SITE	V 414 of		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4025</b>



GE	EO	TECHNICAL LO	C	OJEC		201	00	OI Davidad	JOB NO.	0206	SHEET NO		HOLE NO.
LOGGE			▼ '		DINATES	3 & 4	C	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	B-4026 LETED
		C. Bruce				N 114	233	30.2 E 6205	97.7	2/5/200	7	2/6/2	
DRILLE	R		D	RILL	MAKE AND			HOLE DIAM		HAMMER SE		ER	TOTAL DEPTH
GROUI	ו חוא	Warren-MACTEC EL. DEPTH/EL. GROUND WAT	TER SITI	=-	C	CME-7	<i>'</i> 5	3 I	nches		211797		150.0
	21.	$\nabla$ /	ILIX OITI					Vogtle Elect	ric Gene	erating Pla	ant - Wa	ynesbo	oro, GA
SAMP. TYPE AND NO.	ш	▲ N-VALUE (SPT)	N-COUNT	RECOVERY (in)	NO L	ե	ဂ္ဂ					NOTES	
O	SAMPLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	(ER	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTIO	N AND CL	ASSIFICAT	ION		R LEVELS, ACTER OF
AMP	SAI	+ ATT. LIMITS %	3 2	00	LEV IN F	ΞPΤ	šRAI	( * = field c	lassification adjust esting data and/or y field geologist/o	sted based on			NG AND ATORY
Ś		☐ FINES %		뾦	Ш	ă		of sample b	y field geologist/e	engineer)		TESTIN	
SS	$\bigcup$	20 40 60 80	3-5-7	19	221.5		: HI	*CAND with	silt and an	aval (CD CN	n.	Ton of	Barnwell
1	X	<b>A</b>	5-9-7	15		-		*SAND, with Yellowish red fine to mediun	(5YR 6/4),	moist, medi	um dense,	Group a	at a depth of
SS 2 SS	Д			15		]		SAA except di	y Y			0.0 1001	
SS 3	M		7-10-12	14		-		SAA					
SS			14-16-21	15		5—		SAA except st	rana brazza	. (7 5VD 4/6	wat		
4	Д					-		dense	iong brown	1 (7.51 K 4/0	), wei,		
SS	М	<b>A</b>	17-21-31	24		-		SAA except st red (2.5YR 3/6	rong browi	n (7.5YR 4/6	) to dark		
5					211.0_	10-	Щ						
SS 6	M	1	10-10-8	21	208.5	-		*SAND (SP)- moist to wet, r	Strong bro nedium dei	own (7.5YR 4 nse, medium	l/6), to coarse		
SS	Н	<b>A</b> 🗆	6-8-11	24	208.3_			<u>grained, contai</u>	<u>ıns cemente</u>	ed fragments	^-		
7	Å					15—		SAND, silty, of 3/6), wet, med grained	ium dense,	fine to medi	um		
					204.5_								
			0.0.12										
SS 8	M		8-8-12	12		20		CLAY, sandy yellowish brow dense, fine to i	( <b>CL</b> )- Red vn (10YR :	l (10R 4/6) to 5/6), moiust,	nedium		
					199.5_	20 -		dense, fine to i	nedium gra	ained SAND			
					199.3_							Installe	d 3.5" steel
SS 9	М		8-12-8	15				*SAND, with 4/8), moist, me grained, contain	clay (SP-S	C)- Red (2.5	YR	22.0 fee	o a depth of
9	П					25		grained, contain	ins cemente	ed nodules	iisc		
					194.5_	+	1/						
SS	Н	<b>A</b>	8-12-10	12				SAND, silty (\$6/6), wet, med	SM)- Brow	nish yellow	(10YR		
10	H					30-		6/6), wet, med	ium dense,	fine to coars	è grained		
						‡							
99		<b>A</b>	7-8-12	15		-		SAA awaaaa	llovy (1087	D 7/6)			
SS 11	Д		7-0-12	1.0		35-		SAA except ye	ziiow (10Y	r //0)			
					184.5	-							
		•				]							
SS 12	$\mathbb{X}$	^	4-5-7	12		40-		SAND, silty, o	layey (SC ium dense	-SM)- Yellov fine to medi	v (10YR um		
12						40-		grained	,				
SS 13	M	<b>A</b>	3-5-10	15				SAA					
13	H					45							
						-{							
SS	$\mathbb{H}$	<b>A</b>	2-3-5	17				SAA except m	oist, loose.	fine grained	, contains		
	NRE	D BY: A. TAYLOR			SITE	V	ogtl	CLAY lenses e Units 3 & 4 C				HOLE NO	D.
		D BY: P. DEPREE						Final Log		<del>-</del> 			-4026
						415 of	724						



GE	Ξ(	OTECHNICAL LOC	<u> </u>	OJEC Ogtl		3 & 4	C	JOB NO.   SHI OL Project   6141-06-0286	EET NO.  2 OF	HOLE NO.  3 B-4026
SAMP. TYPE AND NO.	SAMPLE		1st 6" -7 2nd 6" 0 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	l	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 15	X	7 🛕 🗆	4-4-8	15		   55—		SAA except wet, medium dense, contains CLAY lenses	no	
SS 16	X	7 🛕	4-4-5	15	159.5	60-		SAA except very pale brown (10YR 7/3), moist, loose		
SS 17	X	7 📤	2-2-3	15	154.5	65 —		SAND, silty (SM) - Yellow (2.5Y 7/6), moleose, fine grained, -HCL		
SS 18	X	7	1-1-3	24	149.5	70—		SAND, silty, clayey (SC-SM)- Yellow (2. 7/6), wet, very loose, fine to coarse grained contains trace shell fragments, -HCL	5Y ed,	Loss of circulation at a depth of 67.0 feet
SS 19	X	<b>A</b>	3-3-5	24		75—		SAND, silty (SM)- Yellow (2.5Y 7/6), we loose, fine to medium grained, -HCL	et,	
SS 20	X	•	3-3-5	17		80-		SAA except very pale brown (10YR 7/3)		
SS 21	X	•	3-4-3	14	136.5_	85—		SAA 		Top of Utley Limestone at a depth of 85.0 feet
SS 22			50/1"	10	130.5_	90-		*CLAY, sandy (CL)- Very pale brown (10YR 8/3), wet, very dense, contains shelf hash, +HCL		01 05:0 100
SS 23			50/1"	2	124.5_	95—		*SHELL HASH, clavey with sand (GC) Very pale brown (10YR 7/3), moist, very dense, +HCL		
SS 24	X	•	18-28-48	24		100-		SILT (ML) - Dark greenish gray (GLEY1 4/10Y), dry, hard, +HCL		Top of Blue Bluff Marl at a depth of 97.0 feet
SS 25	X	•	13-11-17	24		105-		SAA except moist, very stiff, low plasticity	ty	
	•				SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	ŀ	HOLE NO. <b>B-4026</b>



		OTECHNICAL LOC	•	OJE(		3 & 4	C	JOB NO.   SHEET   DL Project   6141-06-0286   3	NO. OF <b>3</b>	HOLE NO. <b>B-4026</b>
SAMP. TYPE AND NO.	SAMPLE		1st 6" -7 2nd 6" 00 3rd 6" 14	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTI WAT CHAI DRIL	ES ON: ER LEVELS, RACTER OF LING AND DRATORY
SS 26	X	<b>A</b>	11-15-19	24		110-		SAA		
SS 27	×		11-50/1"	11		115—	- - - -	SAA except very dark greenish gray (GLEY1 3/5G), hard		
SS 28	X		38-50/1"	19		120	-	SAA		
SS 29	X	<b>A</b>	11-15-28	20		125—	-	SAA		
SS 30	X	<b>A</b>	20-18-43	24		130-	-	SAA		
SS 31	X	<b>A</b>	27-35-42	24	04.5	135—		SAA except medium plasticity		
SS 32	X		39-50/5"	17	84.5_ 79.5_	140-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/5GY), moist, hard, +HCL		
SS 33	X	<b>A</b>	18-11-28	18	/9.3_	- - 145—		SILT (ML) - Greenish gray (GLEY1 5/5GY), moist, hard, medium plasticity, +HCL		
SS 34	X		31-32-50/6"		71.5_	150—		SAA except low plasticity  Boring terminated at 150 feet		
					SITE	V	ogtl	e Units 3 & 4 COL Project	HOLE	
						417 of		Final Log		B-4026



	PROJEC		3 & 4 CO	I. Project	JOB NO.	6-0286	SHEET NO		HOLE NO. <b>B-4027</b>
LOGGED BY		DINATES		J		BEGUN	1 01	COMPLE	
D. Brooks	DRILL	MAKE AND		0.1 E 62063 HOLE DIAME		2/14/200 HAMMER SE		2/15/2 ER	2007 TOTAL DEPTH
Warren-A.E. Drilling			ME-750	4 Iı	nches		328848		150.0
GROUND EL. DEPTH/EL. GROUND WATER S $217.7$ $\stackrel{\nabla}{\underline{\mathbf{y}}}$ /	ITE:		v	ogtle Electi	ric Gene	rating Pl	ant - Wa	vnesboi	ro, GA
				ogue zacevi				<u>j 11052 01</u>	10, 311
A N-VALUE (SPT)  O WATER CONTENT %  → ATT. LIMITS %  FINES %  20 40 60 80	3rd 6" ⊣ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIO (* = field cli laboratory tei of sample by	N AND CL assification adjus sting data and/or field geologist/e	ted based on	ION		LEVELS, CTER OF IG AND ATORY
SS 1 5-3-2	10	216.2	7 (114)	<b>SAND, with si</b> (7.5YR 5/8), da	imn loose	medium ora	ained	Top of B	Barnwell a depth of
SS 2 3-4-4 2-5-4	8	210.2_	- 1	nonplastic SAND, with si yellow (7.5YR medium graine SAA	lty clay (S 6/8), dami	P-SC)- Redo	lish to	0.0 feet Begin dr 7/8" drill	illing with 2
SS 4 6-9-12	2 14			SAA except ye dense	llowish rec	d (5YR 4/6),	medium		
SS 8-9-10	15		10-	SAA					
SS 4-6-6	13	204.7	1 1/1	SAA					
SS 7 6-7-8	15	204.7_	15—	SAND, with cl (7.5YR 5/8), da coarse grained,	ay (SP-SC amp, medit	C)- Strong broading dense, mo	own edium to		
SS 8 7-8-8	11	200.7_	20	SAND, with si (10YR 6/8), da grained, nonpla	Lt (SP-SM				
SS 9 6-7-7	13	190.7_		SAND, with si brown (10YR 5 plasticity	lty clay (S 5/8), damp,	P-SC)- Yello , medium dei	owish nse, low	Changed drill bit	l to a 3 7/8"
SS 10 5-6-8	18	185.7	30-	CLAY, silty, sivellow (10YR) fine grained SA	andy (CL- 6/8), damp ND	- <b>ML)</b> - Brown , stiff, low p	nish lasticity,		
SS 11 5-5-5	14	180.7_	35—	CLAY, silty w brown (10YR 5 medium graine	ith sand (65/8), damp, d SAND	C <b>L-ML)-</b> Ye stiff, low pl	ellowish asticity,		
SS 12 4-4-5	0	1757	40-	NO RECOVE	RY				
SS 13 4-3-3	14	175.7_	45	SAA except me-HCL	edium stiff	fine grained	d SAND,		
SS \( \bigs \)	16			SAA except pa +HCL			riff,		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE		Units 3 & 4 CC Final Log		t		HOLE NO	4027



GE	EC	OTECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	l C	JOB NO. SHEET NO. OL Project 6141-06-0286 2 OF	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" X	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40 60 80			165.7				
SS 15	X	<b>A</b>	15-15-14	15	103.7_	55—		*SHELL HASH, silty, clayey with sand (GC-GM) - Very pale brown (10YR 8/2), damp, medium dense, nonplastic, +HCL	
SS 16	X	<b>A</b>	13-14-13	16		60-		SAA	Loss of circulation at a depth of 60.0 feet
SS 17	X	<b>A</b>	9-7-9	14		65-		SAA	a depth of oo.o rect
SS 18	X	<b>A</b>	6-3-5	18	150.7_	- - 70-		CLAY, silty (CL-ML)- White (10YR 8/1), damp, medium stiff to stiff, medium plasticity, +HCL	Water level depth at end of 2/14/07=
SS 19	×	•	50/5"	0	145.7_	- - 75-		NO RECOVERY	Ground surface Top of Utley Limestone at a depth of 72.0 feet Water level depth at beginning of 2/15/07= Borchole dry
SS 20	×		50/3"	4	140.7_	80-		*SHELL HASH, with clay and sand (GP-GC) - Pale yellow (5Y 8/4), moist, very dense, +HCL	Brooks.  Begin logging by S
SS 21	X	<b>A</b>	4-5-8	18	135.7_	85—		CLAY (CL)- Pale olive (5Y 6/3), damp, stiff, low to medium plasticity, -HCL	
SS 22	X	<b>A</b>	11-14-14	18	130.7_	- - - 90-		CLAY (CL)- Greenish grey (GLEY1 5/5GY), damp, very stiff, low plasticity, +HCL	Top of Blue Bluff Marl at a depth of 87.0 feet Installed 4" steel casing to a depth of
SS 23	X		27-50/3"	12		- - - 95-		SAA except hard, contains cementation	casing to a depth of 90.0 feet
SS 24	X		11-24-50/2"	16		100-		SAA except contains shell fragments	
SS 25	X		11-50/3"	0	115.7_	105—	<i>////</i>	NO RECOVERY	
					110.7_ SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4027</b>



		OTECHNICAL LOG	•	OJE		•	. ~ .	JOB NO. SHEET NO		HOLE NO.
31	_ <b>`</b>	7 LOTINIOAL LO	V	ogtl	e Units	3 & 4	C	DL Project   6141-06-0286   3 OF	3	B-4027
SAMP. TYPE AND NO.	SAMPLE		1st 6" 7 2nd 6" O 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	WATE CHAF DRILI	ES ON: ER LEVELS, RACTER OF LING AND BRATORY ING
SS 26	×		50/4"	5		110-		CLAY, sandy (CL)- Greenish gray (GLEY1 5/5G), damp, hard, low plasticity, contains shell fragments, +HCL		
SS 27	X	<b>A</b>	14-19-24	18		115-		SAA		
SS 28	×		50/3"	4	95.7_	120-		SAA except contains cementation		
SS 29	X	<b>A</b>	7-11-14	18	73.1_	125-		CLAY, with sand (CL)- Greenish gray (GLEY1 6/10Y), damp, very stiff, low plasticity, +HCL		
SS 30	×	•	50/6"	6		130-		SAA		
SS 31	X	<b>A</b>	36-39-48	15	80.7_	135-		SAA		
SS 32	X	<b>A</b>	11-17-21	18	00.7_	140-		CLAY (CL) - Light greenish gray (GLEY1 7/5GY), damp, hard, low plasticity, +HCL		
SS 33	X	A	17-18-20	8		145-		SAA		
SS 34	X	<b>A</b>	9-10-14	18	67.7_	150-		SAA Boring terminated at 150 feet		
					SITE	V	ogtl	e Units 3 & 4 COL Project	HOLE I	
						420 of		Final Log		B-4027



GE	<b>EO</b>	TECHNICAL LO	$\mathbf{C}$	OJE(		2 0- 1	CC	OI Dwainat	JOB NO.	06 0206	SHEET NO		HOLE NO.
LOGGI			, A		DINATES	3 & 4	C	OL Project	0141-0	06-0286 BEGUN	<b>1</b> OF	COMP	B-4028 LETED
		L. Davis						84.2 E 6205	887.8	2/6/200	7	2/7/2	2007
DRILLE	ER		D	RILL	MAKE AND			HOLE DIAM		HAMMER SE		ÉR	TOTAL DEPTH
GROU	ND F	Melvin-MACTEC  L. DEPTH/EL. GROUND WAT	ER SITI	=.	C	CME-5	55	3 I	nches		219505		150.0
	19.6	$\nabla$ /	EK SIII					Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	oro, GA
		<del>-</del> /						<u> </u>		<u> </u>		<i>J</i>	
Щ.		▲ N-VALUE (SPT)	N-COUNT	(in)	Z.	ե	S					NOTES	S ON:
<b>₽8</b>	F	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ERY	\TIC	르	일	DESCRIPTIO	NI AND CI	ACCIFICAT	ION	WATER	R LEVELS, ACTER OF
SAMP. TYPE AND NO.	SAMPLE	+ ATT. LIMITS %	1s 2r 3r	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTIO (* = field ci-	lassification adjus	sted based on	ION	DRILLI	NG AND
8		☐ FINES %		REC	Ш		9	of sample by	esting data and/or y field geologist/o	engineer)		TESTIN	ATORY IG
CC		20 40 60 80	14-10-7	15	219.6		-121	CAND 14	214 1 (6	D CC) D 1	(10X/D	T	D 11
SS 1	X		10-12-29	21	218.1_	-	4	SAND, with start $4/6$ ), dmap, me nonplastic, -He	ilty clay (S edium dens	e, fine grain	(10YR ed,	Group a	Barnwell at a depth of
SS 2 SS	Д		10-12-29	21		]		SAND, with si 7/8), damp, de	ilt (SP-SM	)- Light red	$(\overline{10R} - J)$	0.0 feet	
SS 3	X	<b>A</b>	9-17-18	13				+HCL SAA except pa			astic,		
SS		<b>A</b>	13-14-20	14	214.1_	5-							
4	Д		13 11 20	1.	211.6_			SAND, silty (Signature of Sand) dense, fine gra	ined, nonp	lastic, -HCL	иатр,		
SS	$\forall$	<b>A</b>	9-13-15	14		]		SAND, with st	ilțy clay (S	<b>P-SC</b> )- Red	 (10R		
5						10		plasticity, -HC	L		ed, low		
SS 6	M		9-14-22	16		]		SAA except re	d (10R 4/6	)			
SS		<b>A</b>	11-13-16	16		]		SAA except re	d (10R 5/6	)			
7	Й					15-		57171 except to	u (10K 5/0	,			
					202.6_	]:							
		<b>.</b>				-							
SS 8	M	7	11-9-10	15		20		SAND, silty (S medium dense	SM)- Red ( , fine grain	(2.5YR 5/6), ed, nonplasti	damp, ic, -HCL		
					197.6_	20 -							
					197.6_								
SS	М	<b>A</b>	10-14-17	16		-		SAND, silty, o	layey (SC	-SM)- Reddi	sh		
9	П					25		nonplastic, -Ho	CL damp,	delise, fille g	granieu,		
SS	$\forall$	<b>Å</b>	8-8-12	19				SAA except re	ddish vello	ow (5YR 7/8)	). medium		
10	Н					30		dense, low plan	sticity		,,		
					187.6_	‡	411						
ac.		<b>A</b>	7-6-8	15		-		CANTO	94 1 42	n co P 1	1:_1.		
SS 11	X		/-0-8	13		35		SAND, with si	ilty clay (S 7/6), damp,	medium den	dish ise, low		
						-		plasticity, -HC	L				
						]							
SS 12	X		7-7-11	18		4.0		SAA except re	ddish yello	ow (5YR 7/8)	)		
12						40							
					177.6_		$\mathbb{H}$						
SS	$\forall$		10-11-12	8				SAND, with si (5YR 7/8), mo	ilt (SP-SM	)- Reddish y	ellow		
13	H					45		(5YR 7/8), mo grained, nonpl	ıst, mediur astic, -HCI	n dense, med	num		
					172.6_		$\parallel$						
SS	$\mathbb{H}$	<b>A</b>	6-7-14	15				SAND, silty, o	lavev (SC	-SM)- Yellov	w (10YR		
	M RED	BY: A. TAYLOR			SITE	V	AIII	7/6), moist, me e Units 3 & 4 Co	<u>edium dens</u>	e, fine graine	ed, low	HOLE N	).
		BY: P. DEPREE						Final Log		•			-4028
						421 of	724	•					



GE		TECHNICAL LO	<u> </u>	OJE(		3 & 4	l Co		EET NO. <b>2</b> OF	HOLE NO. 3 B-4028
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -2 2nd 6"00 3rd 6" 1x	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS 15	X	<u> </u>	10-10-13	17	162.6	55-		plasticity, -HCL SAA except yellow (10YR 7/8)		
SS 16	X	<b>A</b>	5-8-3	14	102.0_	60-		SAND, with silty clay (SP-SC)- Very pale brown (10YR 7/4), moist, medium dense, nonplastic, -HCL	e	
SS 17	X	<b>A</b>	6-8-5	16	152.6_	65 –		SAA except light red (10R 6/6), low plastic	city	Loss of circulation at a depth of 63.0 feet
SS 18	X	<b>A</b>	4-7-12	14	147.6_	70-		SAND, with silt (SP-SM)- Very pale brow (10YR 7/4), moist, medium dense, nonplas -HCL	vn stic,	
SS 19	X		6-33-50/2"	15	145.1_ 142.6_	75 — - - -		SAND, silty, clavey (SC-SM)- Very pale brown (10YR 8/3), moist, very dense, nonplastic, -HCL *SAND, silty, clayey (SC-SM)- White (2.3 8/1), moist, very dense, low plasticity, +HC	/ /	Top of Utley Limestone at a depth of 74.5 feet.
SS 20	X	<b>A</b>	14-14-17	17	137.6_	80-		SAND, with silt (SP-SM)- Very pale brow (10YR 8/3), moist, dense, nonplastic, -HCI	vn L	
SS 21	×	•	50/3"	4	132.6_	85 <del>-</del>		*CLAY, silty, with sand (CL-ML)- Pale yellow (2.5Y 8/2), moist, hard, low plastici +HCL	ity,	
SS 22	X	<b>^</b>	7-10-10	27	130.6_	90- - -		CLAY, silty (CL-ML)- Yellow (2.5Y 7/6) moist, very stiff, low plasticity, +HCL CLAY, silty (CL-ML)- Greenish grey (GLEY1 5/10GY), moist, very stiff, low plasticity, +HCL		Top of Blue Bluff Marl at a depth of 89.0 feet.
SS 23	M	•	50/3"	5	122.6_	- 95 – - -		SAA except greenish grey (GLEY1 5/5GY damp, hard, nonplastic		
SS 24			17-50/5"	15		100-		CLAY, silty with sand (CL-ML)- Greenis grey (GLEY1 5/5G), damp, hard, fine grain SAND, nonplastic, -HCL		
SS 25	×	•	50/3"	4	112.6_ SITE	105-	ogtl	SAA except greenish grey (GLEY2 5/10G'		HOLE NO.
						422 of		Final Log		<b>B-4028</b>



GE	EC	TECHNICAL LO	<u> </u>	OJE(		3 & 4	l C		EET NO.	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" ¬	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26		•	50/1"	1	107.6	110-		CLAY, silty (CL-ML)- Greenish grey (GLEY1 5/10Y), moist, hard, nonplastic, +	+HCL	
SS 27	$\boxtimes$	•	17-50/3"	11	102.6	115-		CLAY, silty with sand (CL-ML)- Greening grey (GLEY1 5/5G), damp, hard, nonplastic contains shell hash, +HCL	ish tic,	
SS 28	×	4	50/2"	3	97.6	120-		*CLAY, silty (CL-ML)- Greenish grey (GLEY1 6/5GY), moist, hard, nonplastic, contains shell fragments, +HCL		Water level depth at beginning of 2/07/2007 = 62.0 feet
SS 29	X	<b>A</b>	20-23-37	28	77.0	125-		CLAY, silty (CL-ML)- Greenish grey (GLEY1 6/10Y), moist, hard, low plasticity +HCL		2/07/2007 – 02.0 feet
SS 30	X	4	31-30-50/2"	26		130-		SAA		
SS 31	$\boxtimes$		29-50/2"	10		135-		SAA except greenish grey (GLEY1 7/10Y)	7)	
SS 32	W		50/2"	5		140-		SAA except greenish grey (GLEY1 7/5GY damp	Y),	
SS 33	X	<b>A</b>	16-16-22	28		145-		SAA except greenish grey (GLEY1 7/10Y)	7)	
SS 34	X	<b>A</b>	10-16-25	26	69.6_	150-		SAA except greenish grey (GLEY1 6/10Y)  Boring terminated at 150 feet	7)	
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-4028</b>



GE	Ξ	OTECHNICAL LOG	PROJE Vogi		3 & 4 C	OL Project	JOB NO.	06-0286	SHEET NO.		OLE NO. <b>B-4029</b>
LOGGI	ED			RDINATES	<del>5 a 4 c</del>	OL 110ject	0141	BEGUN	1 01	COMPLE	
DRILLE	FR	R. Clark	DRII	L MAKE AND		74.9 E 6207		2/6/200° HAMMER SE		2/7/2(	<b>)07</b> TOTAL DEPTH
		Warren-A.E. Drilling			ME-750		nches		328848		150.0
GROU!	ND <b>20</b>	$\nabla I$	SITE:			Vogtle Elect	ric Gene	rating Pl	ant - Way	zneshoi	o GA
		<u> </u>				v ogtic Elect	TIC GCIIC	Taumg Th	ant way	nesboi	. U, G/1
H .		▲ N-VALUE (SPT)	NT E	NO	ြ မြ					NOTES	
SAMP. TYPE AND NO.	SAMPLE	O WATER CONTENT % 9 ts. 0 9 pg. 0 9 pg	3rd 6" \( \frac{2}{4} \)	ELEVATION IN FEET	DEPTH IN F	DESCRIPTION	ON AND CL	ASSIFICAT	ION		CTER OF
AME	SAI	+ ATT. LIMITS %		ELE/	)EPT GRA	(* = field of laboratory of sample b	lassification adjust esting data and/or by field geologist/e	sted based on re-examination engineer)		DRILLIN LABORA	TORY
0)		☐ FINES % 20 40 60 80	2	220.3						TESTING	3
SS	M	7-10	-7 16			<b>SAND, with s</b> (2.5YR 4/4) at	ilt and gra	vel (SP-SM)	- Red	Top of Fi	ill at a depth
1 SS 2	M	7-8-	7   15	217.0	- 1	11 \medium dense	. fine grain	ed	/	Top of B	arnwell a depth of
$\begin{bmatrix} 2 \\ SS \\ 3 \end{bmatrix}$		7-11-	11 14	_	5-	SAND, with s (5YR 6/6), dry nonplastic			, ,	1.2 feet	-
SS	M	9-12-	16 16			SAND, with c (5YR 5/8), day nonplastic SAA except re					
4 SS		8-10-	19 12			(7.5YR 6/8)	M (2.3 I K)	and reduisir y	CHOW		
5	Å				10-	57111					
SS 6	X	13-12	-11   14			SAA except re	ed (2.5YR 4	1/8)			
SS 7	X	5-8-	0 17			SAA					
'	Ħ				15-						
SS 8	M	6-7-	10 12		20-	SAA except st	rong brown	n (7.5YR 5/8)	)		
				198.3_							
00		9-15-	18 12			CAND with a	:14 (CD CM	) Provinch	wallow		
SS 9	X		10   12		25-	SAND, with s (10YR 6/6), d grained, nonpl	amp, dense astic. subro	, medium to o	coarse		
				193.3_							
SS	$\mathbb{H}$	5-8-	0 14			CLAY, with	and (CL)-	Yellow (10)	(R 7/8).		
10	A				30-	CLAY, with s damp, very sti grained SANI	ff, low plas	ticity, very fi	ne ,		
				188.3_							
SS	M	▲ 6-7-	7   15			SAND, with o	lay (SP-SC	C)- Brownish	yellow .		
11	H				35-	(10YR 6/6), m nonplastic	ioist, mediu	ım dense, fin	e grained,		
				183.3_			· — — — ·				
SS	M	2-3-	4 18			CLAY, with s (10YR 6/8), m	and (CL)-	Brownish ye	ellow		
12	H				40-	(10YK 6/8), m	ioist, 100se,	iow plasticit	у		
				178.3_		<b>2</b>					
SS 13		5-3-	5 0		45-	NO RECOVI	ERY				
				173.3	-5						
CC		7-8-	7 18			GANG ::	11. (OF CT 5	. D	11		
SS	M		, 18	SITE	<u> </u>	SAND, with s (10YR 6/8), m	ut (SP-SM loist, mediu	)- Brownish im dense, fin		HOLE NO.	
		ED BY: A. TAYLOR ED BY: P. DEPREE		OII L		le Units 3 & 4 C Final Lo		ı			4029
					424 of 72	4				<del></del>	



GE	OTECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	C	JOB NO. SHEET <b>6141-06-0286 2</b>	NO. OF	HOLE NO.  B-4029
SAMP. TYPE AND NO.	■ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" - <del>7</del> 2nd 6" <u>0</u> 3rd 6" <u>-</u> 3	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	C D L	OTES ON: /ATER LEVELS, HARACTER OF RILLING AND ABORATORY ESTING
14	20 40 60 80			168.3			nonplastic		
SS 15	<b>A</b>	5-5-5	17	100.5_	- - 55—		SAND, with clay (SP-SC)- Brownish yellow (10YR 6/8), moist, medium dense, fine grained nonplastic	d,	
SS 16	X •	6-10-9	18	158.3_	60-		SAA		
SS 17	<b>A</b>	5-5-7	18	153.3	65—		CLAY, with sand (CL)- Very pale brown (10YR 7/4), wet, medium stiff, low plasticity		
SS 18	<b>A</b>	3-5-5	18	148.8_	70-		<b>SAND, with clay (SP-SC)</b> - Pale yellow (2.5Y 7/4), wet, medium dense, fine grained, nonplastic		
SS 19	<b>A</b>	8-12-16	18	143.3_	75—		*CLAY, with sand (CL)- Pale yellow (2.5Y 8/2), moist, very stiff, low plasticity, contains shell hash, +HCL		
SS 20	X •	8-9-10	18	113.3_	80-		SAND, with silt (SP-SM)- Pale yellow (2.5Y 8/2), wet, medium dense, fine grained, nonplastic, -HCL		
SS 21	X ·	12-50/5"	3	136.8_	85—		*CLAY (CL) - Pale yellow (2.5Y 8/2), wet, hard, low plasticity, contains cementation, +HCL		nd logging by D
SS 22	X	5-9-11	20	129.3_	90-		SAA except pale yellow (5Y 7/4), damp, very stiff	B R	nd logging by R. lark. egin logging by A. eimer.
SS 23	<b>A</b>	18-28-36	17		- - 95—		SILT (ML) - Greenish gray (GLEY1 5/5GY), damp, hard, nonplastic, +HCL		op of Blue Bluff larl at a depth of 1.0 feet
SS 24	<b>A</b>	16-20-36	23		100-		SAA	Wer	Vater level depth at and of 2/6/07 = round surface
SS 25	<b>A</b>	12-18-19	21	113.3_	105—		SAA except contains abundant shell fragments		Vater level depth at eginning of 2/7/07 = 0.0 feet
	1 : : : :	<u> </u>		SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HC	B-4029



GE		TECHNICAL LO	~	OJE(		3 & 4	. Co	JOB NO. SHEET 6141-06-0286 3	NO. OF <b>3</b>	HOLE NO. <b>B-4029</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>z</del> 2nd 6" <u>0</u> 3rd 6" <u>-</u> z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NO WA CH DR LAI	TES ON: ITER LEVELS, ARACTER OF ILLING AND BORATORY STING
SS 26	X		22-44-50/4"	18		110-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/5GY), damp, hard, low plasticity, +HCL		
SS 27	X	<b>A</b>	11-14-16	22		- - 115—		SAA except very stiff to hard, contains no shelfragments	1	
SS 28	X	<b>A</b>	14-23-27	24		120-		SAA except contains cementation		
SS 29	×		50/5"	5		125-		SAA except hard		
SS 30	×		50/5"	5		130-		SAA		
SS 31	$\boxtimes$		11-50/4.5"	13		135—		SAA greenish gray (GLEY1 6/10Y)		
SS 32	X		26-50/5.5"	15		140-		SAA		
SS 33	X	<b>A</b>	12-20-27	19		145-		SAA except low to medium plasticity		
SS 34	X	<b>A</b>	14-18-26	22	70.3_	150-		SAA  Boring terminated at 150 feet	_	
	11	<del>: : : : : : :</del>	l		SITE	V 426 of		e Units 3 & 4 COL Project Final Log	HOL	B-4029



	PROJEC		3 & 4 C(	OL Project	JOB NO. <b>6141-(</b>	06-0286	SHEET NO		OLE NO. <b>B-4030</b>
LOGGED BY		DINATES			00 5	BEGUN 1/21/200		COMPLE	
L. Davis	DRILL	MAKE AND		76.7 E 6206 HOLE DIAM		1/21/200 HAMMER SE		3/13/20 SER	D <b>U /</b> FOTAL DEPTH
Melvin-MACTEC  GROUND EL. DEPTH/EL. GROUND WATER S	SITE:	C	ME-55	6 I	nches		219505		150.3
222.4 \(\frac{\times}{\pi}\)/	011⊑.			Vogtle Elect	ric Gene	erating Pla	ant - Wa	ynesbor	o, GA
AND NO OWATER CONTENT %  SAMPL TYPE  AND NO OWATER CONTENT %  Ist 6. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	3rd 6" 5 RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIC  (* = field c laboratory to sample by	ON AND CI lassification adju- esting data and/or y field geologist/or	sted based on	ION	NOTES ( WATER I CHARAC DRILLING LABORA TESTING	LEVELS, TER OF G AND TORY
SS 20 40 60 80 11-10-	5 14	222.4	_11313	SAND, silty w	ițh gravel	(SM)- Red (	10R	Top of Ba	arnwell
1 SS 2 9-11-1 SS 3 6-12-1		220.9_ 216.9_	5-	4/6), dámp, me SAND, silty (S medium dense plasticity, -HC SAA except lo	SM) - Red ( , fine grain L w plasticit	(10R 5/6), da led, nonplasti y		0.0 feet	a depth of
SS 4 6-15-2	28	214.4	-	CLAY, silty, s Red (10R 4/6) -HCL	andy with moist, hai	gravel (CL d, high plast	-ML)- icity,		
SS 5 11-13-1			10-	SAND, silty (S medium dense -HCL			mp, cicity,		
6	16   18	210.4_	<u>                                      </u>	SAA except re	d (10R 4/6	<u> </u>			
	19		15-	*SAND, with damp, fine gra Pocket Penetro	silt (SP-SI) ined, nonp ometer: 2.5	M)- Red (2.5) lastic, -HCL TSF	YR 4/6),	Direct Pu	sh
SS 7 8-12-1	7   11		20-	SAA except re	d (2.5YR :	5/6), medium	dense		
SS 8 8-10-7	7 14		25—	SAA except lig	ght red (2.5	5YR 6/8)			
	2	190.4_	30-	SAA except re Pocket Penetro	d (2.5YR <sup>2</sup> ometer: 2.0	4/6) TSF		Direct Pu	sh
	13	185.4	35-	SAND, silty (S	SM)- Light dense, fin	t red (10R 6/5 e grained, -H	 8), ICL	Direct Pu	sh
UD 4	16	180.4	40-	SAND, sitly, c 6/8), moist, fin Pocket Penetro	elayey (SC) the grained, ometer: 3.5	-SM)- Light low plasticity TSF	red (10R y, -HCL	Direct Pu	sh
SS 9 3-5-6	26	175.4	45-	SILT, sandy ( 7/8), moist, sti	ML)- Red ff, nonplas	dish yellow (tic, -HCL	 (2.5YR		
SS A TAYLOR	28	I/3.4_	V- = 1	SAND, clayey 7/8), moist, mo	(SC) - Rec	ddish yellow e, medium p	(5YR lasticity,	HOLE NO.	
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE			V ogti 427 of 724	Final Log					4030



GE	OTECHNICAL LO		ojec ogtl		3 & 4 C	DL Project   JOB NO.   6141-06-0286	SHEET NO 2 OF	
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -rz 2nd 6" 00 3rd 6" 11	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	ON	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
10				170.4_		-HCL		Water level depth at beginning of 2/2/07 = 27.0 feet
SS 11		11-8-13	13	165.4_	55	SAND, silty, clayey (SC-SM)- Reddist yellow (7.5YR 7/6), moist, dense, fine medium grained, low plasticity, -HCL	h to	
SS 12	<b>A</b>	6-2-8	21		60-	CLAY, silty, sandy (CL-ML)- Reddis yellow (5YR 6/6), damp to moist, stiff, plasticity, -HCL	h low	
SS X		8-6-14	19	160.4_	65—	SAND, silty (SM)- Reddish yellow (7. 6/8), moist, medium dense, nonplastic,	5YR -HCL	
SS 14	•	2-6-7	22		70-	SAA except very pale brown (10YR 7/	3)	
SS X	, •	15-14-14	14	149.4_	75—	*SHELL HASH, silty, clayey with sa (GC-GM) - Pale yellow (2.5Y 8/2) dan medium dense, low plasticity, contains carbonate nodule clusters, +HCL	<b>nd</b> np, large	Loss of circulation.
SS 16	<b>A</b>	5-5-12	22	145.4_	80-	SAND, silty (SM)- Pale yellow (2.5R) moist, medium dense, nonplastic, +HC		
SS 17	•	10-10-16	21		85—	SAA except -HCL		
SS 18	•	50/6"-6-7	9	134.9_	90-	*CLAY, silty (CL-ML)- Pale yellow (8/2), moist, stiff, low plasticity, contain fragments, +HCL	2.5R s shell	
SS 19	•	8-10-10	28	130.4_	95—	CLAY, silty with sand (CL-ML)- Pal (2.5YR 7/4), moist, very stiff, medium plasticity	e yellow	
SS 20		50/3"	7	125.4_	100-	CLAY, silty (CL-ML)- Greenish gray 1 5/10Y), damp, hard, nonplastic, +HC	(GLEY L	Top of Blue Bluff Marl at a depth of 97.0 feet End logging by L. Davis.
UD 5 UD 6	Φ		9 29	120.4_	105-	CLAY (CL)- Greenish gray (GLEY 1 5/5GY), moist, hard, low plasticity, cor some cemented layers, +HCL Pocket Penetrometer: >4.5 TSF, >4.5 TSF	ntains CSF, >4.5	Davis. Begin logging by R. Clark. Pitcher Installed 6" steel casing to a depth of 103.0 feet Pitcher
				SITE	Vogt	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-4030</b>



P. TYPE MPIE MPIE N-N	CHNICAL LO  VALUE (SPT)  TER CONTENT %  T. LIMITS %  ES %  40 60 80	1st 6" -z- 2nd 6" OO 3rd 6" T	RECOVERY (in)			CO	OL Project   6141-06-0286	3 OF	3 B-4030
SAMP. TYPI AND NO. SAMPLE CAMPLE SAMPLE DIN	TER CONTENT %  F. LIMITS %  ES %	1st 6" -z 2nd 6" OO 3rd 6" Z	ERY (in)	N O	<b>—</b>				
	10 00 00		RECOVI	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS X		20-33-50/2"	16		110-		SAA Pocket Penetrometer: >4.5 TSF, >4.5 TSI TSF SAA	F, >4.5	
SS Z2	<b>A</b>	13-20-35	20		115—		SAA		
SS X		15-29-50/4"	18	100.4_	120-		SAA		
UD 7			10	100.4_	125-		*CLAY, silty (CL-ML)- Greenish gray (GLEY 1 5/5GY), moist, hard, low plastic contains some cemented areas, +HCL Pocket Penetrometer: >4.5 TSF, >4.5 TSI	icity	Pitcher  Water level depth at end of 3/12/07 =
UD 8 SS 24		20-50/3"	10		130-		TSF SAA Pocket Penetrometer: >4.5 TSF, >4.5 TSI TSF *SAA except greenish gray (GLEY 1 6/5		Water level depth at end of 3/12/07 = Ground surface Pitcher Water level depth at beginning of 3/13/0° = 16.0 feet
SS Z	<b>A</b>	9-35-32	22		135—		SAA except light olive gray (5Y 6/2)		
SS × 26		50/3"	4		140—		SAA		
SS 27	<b>A</b>	10-20-40	20		145—		SAA		
UD 9			28	72.1_	150-		SAA Pocket Penetrometer: >4.5 TSF, >4.5 TSI TSF Boring terminated at 150.3 feet		Pitcher
				SITE			H. A. A. A. COL. D.		HOLE NO
				SIIE	V	ogtl	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-4030</b>



GEO	OTECHNICAL LOG		OJEC		3 R. 1	CC		IOB NO.	06-0286	SHEET NO		HOLE NO. <b>B-4031</b>
LOGGED		* (		DINATES	3 & 4		)L i roject	0141-0	BEGUN	1 OF	COMPLE	
DRILLER	M. Harvey	Di	DILI	MAKE AND			99.8 E 62097		2/18/200 HAMMER SE		2/20/2	007 TOTAL DEPTH
DRILLER	Warren-MACTEC		NILL		:ME-7			ches		211797	LIX	150.0
GROUND	EL. DEPTH/EL. GROUND WATER	SITE	Ē:				-		ļ		,	C.
222	2.1 ¥ /						Vogtle Electri	ic Gene	erating Pl	ant - Wa	ynesbo	ro, GA
SAMP. TYPE AND NO. SAMPLE		2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION (* = field class laboratory testi of sample by fi	sification adius		ION		LEVELS, CTER OF G AND ATORY
SS		5-10-12	6	222.1			SAND, silty (SM medium dense		10R 4/8), dr	y,	Top of B Group at	arnwell a depth of
$\begin{bmatrix} 1 & \\ SS & \\ 2 & \\ SS & \\ \end{bmatrix}$		7-15-20	18				SAA except den				0.0 feet	•
$\left \begin{array}{c} SS \\ 3 \end{array}\right $		8-8-14	10		5—		SAA except med	dium dens	se			
SS X	1	0-12-11	10		<u>- </u>		SAA					
SS X	<b>A</b>	6-12-15	8		10-		SAA					
	<b>A</b>	3-7-6	6		- <u> </u> -		SAA					
SS X		8-11-12	6		15		SAA					
				205.1_								
		8-9-12	0		20-		NO RECOVER	RY				
ss y	<b>A</b>	4-7-10	8	200.1_	25—		SAA except red	(10R 4/6)	), damp			
UD 1			15		30-		SAA Pocket Penetrom	neter: 4.5	TSF		Direct Pu Water le end of 2/ Ground s	vel depth at
UD 2	0		20.5		35		SAA, except red Pocket Penetrom	1 (2.5YR 4 neter: 2.25	4/6) 5 TSF		Water le beginnin = 25.0 fe Direct Pu	vel depth at g of 2/19/07 set ush
UD 3	O .		21.5	180.1_	40-		SAA except red yellow (7.5YR 6 Pocket Penetrom	(2.5YR 4 5/8) neter: 2.0	1/6) and redd TSF	ish 	Direct Po	ush
SS 10		8-12-15	10	175.1	45—		SAND, with silt (7.5YR 6/8), mo	(SP-SM ist, mediu	)- Reddish y um dense	ellow		
ss	•	5-5-7	12				SAND, clayey (\$6/8), moist to we	SC)- Bro	wnish yellov m dense, con	v (10YR tains clay		a depth of
	ED BY: A. TAYLOR ED BY: P. DEPREE			SITE			e Units 3 & 4 COI Final Log	L Project	t		HOLE NO <b>B-</b>	4031
					430 of	724						



GE	Ξ	OTECHNICAL LO	$\mathbf{C}$	OJE( ogtl		3 & 4 C	OL Project   JOB 61	NO. 41-06-0286	SHEET NO	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>7</del> 2nd 6" <u>C</u> 3rd 6" <u>T</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AN  (* = field classificat laboratory testing da of sample by field ge	ND CLASSIFICAT ion adjusted based on ta and/or re-examination cologist/engineer)	TON	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
11					170.1_		in lenses			
SS 12	X	<b>A</b>	8-12-12	10		55—	SAND, silty (SM)- 6/8), damp, medium	Reddish yellow (7	7.5YR	
SS 13	X	<b>A</b>	3-3-8	17	165.1_	60-	SAND, clayey (SC) 6/6), damp, medium		w (10YR	
					160.1_					
SS 14	X	<b>A</b>	7-8-9	14	158.1_	65-	CLAY, sandy (CL) (6/6), damp, very stri SAND, silty (SM)- damp, medium dens	Yellow (10YR 7/3	w (10YR 8),	
SS 15	X	<b>A</b>	7-15-17	10	155.1_	70-	SAND, with silt (S) 8/6), wet, medium d		0YR	
SS 16	X	<b>A</b>	11-22-26	10	145.1_	75—	SAA except pale ye	llow (2.5Y 8/3), d	ense	
SS 17	X	<b>A</b>	5-5-6	14		80-	SAND, clayey - Browet, medium dense	ownish yellow (10	YR 6/8),	
SS 18	X	<b>A</b>	7-11-12	13	140.1_	85-	SAND, silty (SM)- medium dense	Yellow (10YR 6/	8), wet,	
SS 19	X	<b>A</b>	6-5-6	0	134.6_	90-	NO RECOVERY			
SS 20	X	<b>A</b>	6-8-10	18	130.1_	95-	CLAY, silty (CL-M	<b>1L)-</b> Pale yellow ( CL		
SS 21	X	<b>A</b>	27-31-35	18	125.4_	100-	CLAY (CL) - Greet damp, hard, contain	nish gray (GLEY1 s cementation, +H	5/5GY), ICL	Top of Blue Bluff Marl at a depth of 96.75 feet
SS 22	X	<b>A</b>	16-24-26	18	119.1_	105-	SILT (ML) - Green damp, hard, contain	ish gray (GLEY1 s cementation, +H	– – – – 5/5GY), ICL	
					SITE	Uogtl	le Units 3 & 4 COL P Final Log	roject		HOLE NO. <b>B-4031</b>



GE		TECHNICAL LO		OJE(		3 & 4	. CO	JOB NO. SHEET NO. SHEET NO. 3 O	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" 00 3rd 6" 1x	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 23		20 40 60 80	50/0"	0	114.1_	110-		NO RECOVERY	
SS 24	X	<b>A</b>	15-19-21	18	109.1_	- - 115-		CLAY (CL) - Greenish gray (GLEY1 5/5GY), damp, hard, contains cementation, +HCL	
SS 25	X	<b>A</b>	13-22-42	18		120-		SAA	Water level depth at end of 2/19/07 =
SS 26	×		50/3"	16		125-		SAA	Ground surface Water level depth at beginning of 2/20/07 = 51.0 feet
SS 27	_		50/1"	9		130-		SAA	
SS 28			50/0"	0	90.1_	135—		NO RECOVERY	
SS 29	×		50/2"	3	85.1_	140-		*LIMESTONE - Greenish gray (GLEY1 5/5GY), lithified marl with clay, wet, hard, contains shell fragments, +HCL	
SS 30	_		50/1"	1	75.1	145—		SAA	
SS 31	X	<b>A</b>	13-24-27	18	75.1_ 72.1_	150-		CLAY (CL)- Greenish gray (GLEY1 5/5GY), damp, hard, +HCL Boring terminated at 150 feet	
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4031</b>



M. Harvey  M. Harvey  DRILLER  Warren-MACTEC  GROUND EL.  DEPTH/EL. GROUND WATER  220.2  A N-VALUE (SPT)  O WATER CONTENT %  FINES %  20 40 60 80  SS 1 SS 2 SS 3 3-5-8 13  SS 4 SS	BEGUN 2/13/2007 HAMMER SERIAL NUI 211797 Enerating Plant - W  CLASSIFICATION adjusted based on and/or re-examination ogist/engineer)  Red (10R 4/4), dry , 5/6) 4/4), damp, medium	38.5
DRILLER   DRILL MAKE AND MODEL   HOLE DIAMETER   SITE:	HAMMER SERIAL NU 211797  enerating Plant - W  CLASSIFICATION adjusted based on and/or re-examination ogist/engineer)  Red (10R 4/4), dry , 5/6)  4/4), damp, medium	MBÉR TOTAL DEPT  38.5  Vaynesboro, GA  NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING  Top of Barnwell
Warren-MACTEC   CME-75   3 Inches	enerating Plant - Website Declassification adjusted based on and/or re-examination ogist/engineer)  Red (10R 4/4), dry , 5/6)  4/4), damp, medium	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
STE:  Vogtle Electric Ge  Vogtle Flow  Vogtle Flow  Vogtle Electric Ge  Vogtle Flow  Vog	CLASSIFICATION n adjusted based on and/or re-examination ogist/engineer)  Red (10R 4/4), dry , 5/6)  4/4), damp, medium	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
220.2	D CLASSIFICATION adjusted based on and/or re-examination ogist/engineer)  Red (10R 4/4), dry , 5/6)  4/4), damp, medium	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
A N-VALUE (SPT)	Red (10R 4/4), dry ,  5/6)  4/4), damp, medium	WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS	Red (10R 4/4), dry ,  5/6)  4/4), damp, medium	WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS   4-4-4   14   14   14   15   16   16   16   16   16   16   16	5/6) 4/4), damp, medium	Top of Barnwell Group at a depth of 0.0 feet
1 SS 2	5/6) 4/4), damp, medium	Group at a depth of 0.0 feet
SS 4 NO RECOVERY		
212.2	to red (10R 6/3 to 10R	
	to red (10R 6/3 to 10R	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	`	
SS 6 SAA except red (10R	5/6), loose	
SS 7 SAND (SP) - Red (101	R 4/8), dry, dense	
SS 8 SAA except medium of 198.2 SAA except medium of 198.2	dense	
SS 9 SAND, silty (SM) - Romedium dense	ed (10R 4/6), damp,	
UD 1 SAA except damp to r	moist	Direct Push
UD 21 SAA except reddish yo	vellow (7.5YR 7/8)	Direct Push
Boring terminated at 3 mechanical malfunction	38.5 feet due to on	Water level depth at end of 2/13/2007 = Ground surface
PREPARED BY: A. TAYLOR  SITE Vogtle Units 3 & 4 COL Pro	niect .	HOLE NO.
REVIEWED BY: P. DEPREE  Final Log	,ject	B-4032



C		TE	יוארוי		L LO		ROJE					JOB NO.		SHEET NO	I .	HOLE NO.
			> MIN	ICAI	L LO	•			3 & 4	CC	OL Project	6141-0	06-0286	<b>1</b> OF		B-4032A
LOGG	ED E		M II			C	COOR	RDINATES	NT 114	1111	12.7 E (205	704.7	BEGUN	) <b>7</b>	COMPL	
DRILLI	ER		M. Ha	ırvey			RILL	MAKE AND			23.7 E 6207 HOLE DIAM		2/14/200 HAMMER SE		2/15/ BER	2007 TOTAL DEPTH
		Wa	ren-N	<b>ЛАСТ</b>	TEC				ME-			Inches		211797		150.0
GROU		EL. [	EPTH/E		UND WA	TER SIT	E:									
2	<u> 20.</u>	2	<u>√</u> / <u>√</u> /				<u> </u>				Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	oro, GA
SAMP. TYPE AND NO.	SAMPLE	O WA	/ALUE ( TER C Τ. LIMIT IES % 40	ONTEN	NT % 80	1st 6" -z 2nd 6" O 3rd 6" - x	RECOVERY (in)	ELEVATION IN PEET OF 100 STORES	DEPTH IN FT	GRAPHICS	laboratory t of sample b	classification adju testing data and/or by field geologist/	sted based on r re-examination engineer)		CHARA DRILLI	R LEVELS, ACTER OF NG AND AATORY
UD 1 SS 1		······································				14-16-19	9	181.7_	5		*SAND (SP)-  *SAND (SP)-  SAA reddish y	Orange, da	amp, Toose		Casing depth o	installed to a f 42.0 feet
SS	X		<u> </u>	:	:	5-12-17	14		_		SAND, clayey 7/8), medium	y (SC) - Red dense, dam	ldish yellow p	(7.5YR		
			TAYLOI DEPREI					SITE	V 434 of		e Units 3 & 4 Co Final Log	OL Projec	t		HOLE NO	4032A



GE	ΞC	OTECHNICAL L		OJE( ogtl		3 & 4	C	JOB NO. SHEET N OL Project 6141-06-0286 2 0	O. HOLE NO. B-4032A
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" 0-3 3rd 6" - 1z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
2					168.2_	-			
SS 3	X	<b>A</b>	6-8-10	15	162.2	55-		SAND, silty (SM)- Brownish yellow (10YR 6/6), medium dense, damp	
SS 4	X	<b>A</b>	9-10-10	12	163.2_ 158.2_	60-		SAND, clayey (SC)- Yellow (10YR 7/6), moist, medium dense	
SS 5	X	<b>A</b>	7-12-13	14	138.2_	65-		SAND, silty (SM)- Reddish yellow (7.5YR 6/8), wet, medium dense	
SS 6	X	<b>A</b>	16-19-20	12		70-		SAA	
SS 7	X	<b>A</b>	6-8-10	17		75-		SAA pale red (10R 6/4)	
SS 8	X	•	7-10-12	12		80-		SAA except yellow (10YR 7/6), medium denses-HCL	
SS 9	X	<b>A</b>	2-17-27	18	122.2	85-		SAA except yelow (7.5YR 7/4) and pink (2.5Y 8/6), dense	
SS 10	X	<b>A</b>	2-7-16	17	133.2_	90-		CLAY (CL) - Pale yellow (5Y 8/4), and olive yellow (5Y 6/6), damp, very stiff	_
SS 11	X	<b>A</b>	4-6-10	0	128.2_	95 <del>-</del>		NO RECOVERY	Water level depth at end of 2/14/2007 =
SS 12	X	<b>A</b>	5-6-8	16	123.2_ 119.2_	100-		SAA except pale yellow (5Y 7/4), stiff	Ground surface
SS 13	X	<b>A</b>	14-18-20	13		105-		CLAY (CL)- Greenish grey (GLEY1 5/1/10Y), damp, hard	Top of Blue Bluff Marl at a depth of 101.0 feet
		<u> </u>			113.2_ SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4032A</b>



G		OTECHNICAL LO	~	OJE				JOB NO.		SHEET NO		HOLE NO.
O.	_ <b>`</b>	TILOTINICAL LO		ogtl	e Units	3 & 4	C	OL Project 6141-06	5-0286	<b>3</b> OF	3	B-4032A
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6"	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLA  (* = field classification adjuster laboratory testing data and/or re of sample by field geologist/eng	d based on	ON	CHAR DRILL	R LEVELS, ACTER OF ING AND RATORY
SS 14	X	<b>A</b>	11-13-19	18		110-		CLAY, silty (CL-ML)- G (GLEY1 5/1/10Y), damp, I	reenish grey hard, +HCL	7		
SS 15	X	<b>A</b>	14-19-21	18		115-		SAA				
SS 16	X	<b>A</b>	14-16-19	18	98.2_	120-		SAA				
SS 17			50/1"	2	93.2_	125-		CLAY (CL) - Greenish gre 5/1/10Y), damp, hard, +HC	ey (GLEY1 L			
SS 18	X	•	18-37-46	18	88.2_	130-		*CLAY, with shell fragm grey (GLEY1 5/1/10Y), da	ents (CL) (mp, hard, +	Greenish HCL		
SS 19			50/1"	11	00.2_	135-		CLAY (CL) - Greenish gre 5/1/10Y), damp to wet, har	ey (GLEY1 d, +HCL			
SS 20	X	<b>A</b>	16-19-22	18	78.2_	140-		SAA				
SS 21	X	<b>A</b>	24-43-25	15	76.2_	145-		CLAY, silty (CL-ML)- Gi (GLEY1 6/1/10Y), hard, +	reenish grey HCL	/		
SS 22	X	<b>A</b>	14-16-17	18	70.2_	150-		SAA  Boring terminated at 150 fe	eet			
	Ш		<u> </u>		SITE	V	ogtl	e Units 3 & 4 COL Project			HOLE N	
						436 of	724	Final Log			B.	-4032A



GE	ОТ	ECHNICA	AL LO	<u> </u>	OJEC		204	00	DI D : 4	JOB NO.	26.0206	SHEET NO		HOLE NO.
LOGGE				Ψ,		e Units DINATES	3 & 4	C	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	B-4033 ETED
		L. Davis							98.1 E 6203	348.8	2/7/200	7	2/9/2	
DRILLE				D	RILL	MAKE AND			HOLE DIAM		HAMMER SE		ER	TOTAL DEPTH
GROUN		Melvin-MAC  DEPTH/EL. GR		ER SITI	=-	C	ME-5	55_	3 I	nches		219505		149.4
	9.9	□	COOND WAT	LIX JOIN					Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	oro, GA
													<u> </u>	-
SAMP. TYPE AND NO.		N-VALUE (SPT	)	N-COUNT	RECOVERY (in)	Z_	F	ဂ္ဂ					NOTES	
ZN	SAMPLE +	WATER CONTE	ENT %	1st 6" 2nd 6" 3rd 6"	ER)	ATI(	Z ⊤	爿	DESCRIPTIO	ON AND CI	ASSIFICAT	ION		R LEVELS, CTER OF
AMP	- SA	ATT. LIMITS %		1 2 2	8	ELEVATION IN FEET	DEPTH IN	GRAPHICS	( * = field c	lassification adju- esting data and/or y field geologist/or	sted based on			NG AND ATORY
S		FINES %			R	Ш			of sample b	y field geologist/	engineer)		TESTIN	
SS		20 40 60	80			219.9			SAND with s	ilty clay (S	SP-SC)- Red	(10R	Top of l	Barnwell
1 1	$\frac{\lambda}{2}$	<b>A</b>	:	8-6-10	18		_		SAND, with s 4/8), damp, fir SAA except m	ne grained, nedium den	nonplstic, -H	IČĽ	Group a 0.0 feet	t a depth of
SS 2 SS		<b>A</b>		10 10 16	16		-							
3	X		:	10-10-16	16	214.4	5		SAA except re	ed (10R 4/6	o)			
SS 4	X	<b>A</b>		12-17-24	18	21	-		SAND, with s damp, dense, f	ilt (SP-SM	D- Red (10R	4/6), -HCL		
SS	7	<b>A</b>		10-15-14	15		-		SAA except re					
5						209.4_	10-							
SS 6	X			10-15-19	16	206.9	-		SAND, with s yellow (5YR 6	ilty clay (S 5/6), moist,	SP-SC)- Redomedium den	dish ise, fine		
ss	X	<b>A</b>		9-10-9	14	200.5	1		- grained, nonpl *SAND, with 4/4), moist, mo			d (10R		
7							15-		nonplastic, -H	edium dens CL	se, fine graine	ea,		
							_							
SS 8	$\forall$	<b>A</b>	:	6-6-8	14		1		SAA					
8	$\triangle$						20-							
							]							
ss		<b>A</b>		10-15-18	9		=		SAA except li	ght red (10	R 6/8) dense	<u>,</u>		
9	4						25—		эн төмөөрү н	B.11 10 th (10	10,0), 401100		Water le	evel depth at
							<u> </u>						beginning = 13.5 f	ng of 2/8/2007 eet
UD		10.			18		-		SAA ayaant ra	ddich valle	w (7 5VD 6	(6)	Water le	evel depth at
1							30-		SAA except re Pocket penetro	ometer: 1.5	TSF	0)	= 46.0 f Direct F	ng of 2/9/2007 eet
			:			187.9_	-						Duect	usii
III					13				CANID : 24	:141 /C	D CCV P 1	diale	Di ( P	hvah
UD 2			:		13		35		SAND, with s yellow (7.5YR (10YR 6/8), m Pocket penetro	11ty clay (S 2 7/6) and b	prownish yell	aisn ow	Direct F	rusn
							-		Pocket penetro	ometer: 0.8	TSF	L		
		0												_
UD 3					22		40-		SAA except yo (10YR 7/8)			ellow	Direct F	ush
						177.9	.,		Pocket penetro	ometer: 1.2	15F			
						111.7_								
SS 10	X			8-9-8	18		45		SAND, silty, of yellow (10YR grained, low p	clayey (SC 6/8), mois	-SM)- Brown t, medium de	nish ense, fine		
			:				437		grained, low p	lasticity, -I	HCL			
			:											
SS	X	<b>^</b>		10-12-17	17		-		SAA except no	onplastic to	low plastici	ty		
		Y: A. TAYLOR				SITE	V	ogtl	e Units 3 & 4 Co		t		HOLE NO	-4033
KEVIEV	v⊏D B	Y: P. DEPREE					437 of	<del>72</del> 4	Final Log	<u> </u>			D	- <del>1</del> 033



GE	OTECHNICAL LO		OJEC ogtl		3 & 4	C	JOB NO. SHEET NO. OL Project 6141-06-0286 2 OR	
SAMP. TYPE AND NO.	■ N-VALUE (SPT) □ WATER CONTENT %  + ATT. LIMITS % □ FINES %	1st 6" -z 2nd 6" 00 3rd 6" zf	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
11	20 40 60 80			167.9_	-			
SS 12		8-10-9	14	162.9	- 55—		SAND, clayey (SC)- Reddish yellow (5YR 7/8), moist, medium dense, fine to medium grained, low plasticity, -HCL	
SS 13	<b>A</b>	12-12-18	13		60-		SAND, silty (SM)- Light red (2.5YR 7/8), moist, medium dense, fine to medium dense, nonplastic, -HCL	
SS 14	<b>A</b>	3-5-5	23	157.9_	65—		SAND, clayey (SC)- Light red (2.5YR 7/8), moist, medium dense, fine to medium grained, low plasticity, -HCL	
SS 15	<b>A</b>	4-2-3	22	152.9_	70-		SAND, silty, clayey (SC-SM)- Reddish yellow (5YR 7/6), moist, loose, fine to medium grained, low plasticity, -HCL	
SS 16	<b>A</b>	25-20-27	21	146.9_	75—		CLAY, silty with sand (CL-ML)- Pale yellow (2.5Y 8/2), moist, hard, fine grained SAND, medium plasticity, +HCL	
SS 17		50/1"	2		80-		*SAA except low to medium plasticity, contains shell fragments	Top of Utley Limestone at a depth of 77.0 feet.
SS 18	⊠ ′	49-50/2"	10		85—		SAA except pale yellow (2.5Y 8/4)	
SS 19	Χ ,	27-50/5"	17	132.9_	- - 90—		CLAY, silty (CL-ML)- Greenish grey (GLEY1 5/10Y), moist, hard, low plasticity, +HCL	Top of Blue Bluff Marl at a depth of 87.0 feet.
SS 20	X A	27-27-33	27		- - 95—		SAA	
SS 21		19-27-37	26		100-		SAA except greenish grey (GLEY1 5/5GY), damp, nonplastic	
SS 22	X •	17-17-23	28		105—		SAA except greenish grey (5/10Y)	
				SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4033</b>



GE	EC	OTECHNICAL LO	~	OJE(		3 & 4	l C(	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 0		HOLE NO. <b>B-4033</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" <u>S</u> 3rd 6" <u>Z</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	WATE CHAF DRILL	ES ON: ER LEVELS, RACTER OF LING AND RATORY ING
SS 23	X	<b>A</b>	13-17-20	27		110-		SAA except greenish grey (GLEY1 6/5GY)		
SS 24	X	,	27-50/2"	9		- - 115—		SAA except greenish grey (GLEY1 6/10Y), contains shell hash		
SS 25	X		19-50/4"	16	27.0	120-		SAA		
SS 26	×		50/5"	11	97.9_	125-		CLAY (CL)- Greenish grey (GLEY1 6/10Y), moist, hard, low plasticity, +HCL		
SS 27	X		22-32-50/2"	22	92.9_	130-		CLAY, silty (CL-ML)- Greenish grey (GLEY1 7/10Y), moist, hard, low plasticity, +HCL		
SS 28	×		50/5"	12	87.9_	135-		CLAY, silty, sandy (CL-ML)- Greenish grey (GLEY1 6/10Y), moist, hard, medium plasticity, +HCL		
SS 29	X		24-32-50/2"	11	82.9_	140-		CLAY, silty (CL-ML)- Greenish grey (GLEY1 7/10Y), moist, hard, low plasticity, +HCL		
SS 30	X	<b>A</b>	16-21-39	17		145-		SAA except medium plasticity		
SS 31	X		14-50/5"	18	70.5_	- - -		SAA except greenish grey (GLEY1 6/10Y), low to medium plasticity  Boring terminated at 149.42 feet		
		<u> </u>			SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE	NO. <b>3-4033</b>



GE	OTECHNICAL LOG	PROJEC		3 & 4 CC	OL Project	JOB NO.	06-0286	SHEET NO	
LOGGED	BY		DINATES	<del>5 a 4 c c</del>	JL I Toject	0141	BEGUN	1 01	COMPLETED
DRILLER	M. Harvey	DRILL	MAKE AND		75.7 E 62079 HOLE DIAME		2/17/200 HAMMER SE		3/20/2007 ER TOTAL DEPT
	Warren-MACTEC			CME-75		nches		219505	150.0
GROUNE 222	$\nabla$ /	SITE:		,	Vogtla Flaati	ria Cana	rating DL	ont Wa	ynesboro, GA
	<u>*</u>				v ogue Electi	ic Gene	rating 1 i	ant - wa	ynesboro, GA
SAMP. TYPE AND NO.	☐ FINES %	3rd 6" ≒ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIO (* = field claboratory te- of sample by	N AND CL assification adjus sting data and/or field geologist/e	sted based on	ION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS	20 40 60 80	3 14	222.8 222.3	-ANA	GRAVEL (GP	) M) - Red (	10R 4/6) to 2	vellow [	Top of Fill at a depth of 0.0 feet
	6-7-9			- -	(10YR 7/8), dry SAA except ye	y, medium llowish red	dense (5YR 5/8)	yenow	Top of Barnwell Group at a depth of 0.5 feet
$\begin{bmatrix} 3 & \triangle \\ SS & X \end{bmatrix}$	10-12-	11 14		5—	SAA				
SS 5	10-11-	13 11	212.3	10-	SAA				
SS S	12-14-	17 10	209.8_	-	<b>SAND, with si</b> (5YR 6/6), dry,	lt (SP-SM , medium o	)- Reddish y dense	ellow	
SS 7	2-8-1	2   10		15—	SAND, silty (S wet, medium de	M)- Yello ense	owish red (5)	/R 5/8),	
	12-14-	15 11	200.8	20-	SAA except rec	d (2.5YR 5	5/6), dry		
SS 9	21-35-	37 18	195.8	25	* <b>SAND, with s</b> (5YR 5/8), wet	silt (SP-SN, very dens	M)- Yellowis	sh red	
UD 1	ССО	13.25	190.8	30-	SAND, silty (S Pocket Penetro	M)- Red ( meter: 0.2:	2.5YR 5/6) 5 TSF		Direct Push
UD 2		13.5	190.8_	35-	SAND, with cl (5YR 5/8) Pocket Penetro	ay (SP-SC)	C)- Yellowisl 5 TSF	n red	Direct Push
UD 3		11.3	180.8_	40-	SAA Pocket Penetro	meter: 0.5	TSF		Direct Push
SS 10	3-5-6	5 10		45-	SAND, clayey moist, medium	(SC) - Bro dense	own (7.5YR 5	5/8),	
ss	4-5-:	5 18			SAA except bro	ownish yel	llow (10YR (	6/6)	Installed 6" casing to a depth of 47.0 feet
	ED BY: A. TAYLOR ED BY: P. DEPREE		SITE	Vogtle	e Units 3 & 4 CC Final Log		t		HOLE NO. B-4034



GE	: -	TECHNICAL LO	<u> </u>	OJEC					JOB NO.	SHEET NO		HOLE NO.
GL	-0	TECHNICAL LO	S V	ogtle	<u>Units</u>	3 & 4	C	OL Project	6141-06-0286	<b>2</b> OF	3	B-4034
'S	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>7</del> 2nd 6" <u>0</u> 3rd 6" <del>-</del> 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field c	ON AND CLASSIFICAT lassification adjusted based on setting data and/or re-examination y field geologist/engineer)	ION	CHARA	LEVELS, CTER OF NG AND ATORY
11						-						
SS 12	X	<b>A</b>	8-11-12	18	165.8_	55—		SAA except lig	ght reddish brown (5YR	2 6/4),		
SS 13	X	<b>A</b>	8-4-6	18		60-		CLAY, şandy 5/4), moist, sti	(CL)- Reddish brown (	(2.5YR		
SS 14	X	•	18-19-24	10	160.8_	65—		<b>SAND (SP)</b> - I 6/4), damp, de	Light yellowish brown (	10YR		
SS 15	X	<b>A</b>	10-9-11	14	155.8_	70—		SAND, clayey damp, medium	r (SC)- Light red (2.5YI	R 6/6),		
SS 16	X	<b>A</b>	4-4-7	18	150.8_	- - 75-		CLAY, sandy stiff -HCL	(CL)- Yellow (5Y 8/6)	, moist,		
SS 17	X	<b>A</b>	5-11-17	10	146.0_	80-		*SHELL HAS (2.5Y 8/3), me	SH, clayey (GC)- Pale y	yellow	Water le	evel depth at /17/07 = surface
SS 18	X	<b>A</b>	18-17-24	18	140.8_	85 —		*SHELL HAS 8/4), moist, de	SH, silty (GM)- Pale yense, +HCL	ellow (5Y	Ground	surface
SS 19	X		WOH/18"	0	135.8_	90-	ДŢ	NO RECOVE	ERY			circulation at of 89.5 feet
SS 20	X	<b>A</b>	7-15-17	18	130.8_	95—		SAND (SP)-Y	Yellow (10YR 7/6), wet	, dense		
SS 21	×		7-50/1"	13	124.3_	100-		CLAY (CL)- damp, hard	Greenish gray (GLEY 1	1 5/10Y),	Top of Marl at feet	Blue Bluff a depth 98.5
SS 22	X	<b>A</b>	17-24-24	18		105—					Casing depth of End log	advanced to a 104.0 feet ging by M.
					115.8_ SITE	V	Ogtl	e Units 3 & 4 C	OL Project		Harvey.	
						441 of		Final Log				-4034



GE	0	TECHNICAL LO	$\mathbf{C}$	OJE(		2 8- 1		OL Project   JOB NO.   SHEET   SHEET   3	NO. OF <b>3</b>	HOLE NO. <b>B-4034</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" 00 3rd 6" 1z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NO <sup>-</sup> WA <sup>-</sup> CH <i>I</i> DRI LAE	TES ON: TER LEVELS, ARACTER OF LLING AND ORATORY
UD 4		20 40 60 80		9.5		110-		*SILT, with shell hash and sand (MH) Dar greenish gray (GLEY1 4/5GY), dry to damp, contains shell fragments and phosphate grains +HCL	End Wai	in logging by G. appa.  drilling by ren-MACTEC. were dearing to a proceed casing to a
UD 5		0+		30		115-		SAA except damp Pocket Penetrometer: >4.5 TSF	l a Ci	vinced casing to a h of 104.0 feet in drilling by ks-MACTEC with ME-550, hammer al #337153.
						120-		SAA Pocket Penetrometer: >4.5 TSF	Pitc	her
SS 23	X		9-38-50/1"	18		125-		SAA except greenish gray (GLEY 5/10GY), dry to damp	Wat end of c	er level depth at of 3/19/07 = Top asing
SS 24	X	<b>A</b>	10-11-24	18		130-	-	SAA	Wat	er level depth at nning of 3/20/07 0.0 feet
SS 25	X		24-38-50/2"	18		135-		SAA		
SS 26	X		28-50/5"	16	80.8_	140-	-	SAA except greenish gray (GLEY1 6/5GY), dry		
UD 6		⊕+ □		32.5		145-		*CLAY, sandy (CL)- Greenish gray (GLEY 5/5GY), damp, low plasticity, contains shell fragments and phosphate grains, +HCL Pocket Penetrometer: >4.5 TSF	Pitc	her
SS 27	X	<b>^</b>	26-37-43	18	72.8_	150-		SAA  Boring terminated at 150 feet		
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLI	ENO. <b>B-4034</b>



	PROJEC		2 0- 1 1	COL	Duoinat	JOB NO.	AC 020C	SHEET NO		HOLE NO.
		DINATES	3 & 4 (	COL	Project	0141-0	6-0286 BEGUN	1 OF	COMPLI	<b>B-4035</b> ETED
A. Reimer					E 6208		2/8/200		2/27/2	
Warren-A.E. Drilling	DRILL	MAKE AND	морег <b>МЕ-75</b>		HOLE DIAM	nches	HAMMER SE	RIAL NUMB 328848	ER	164.8
GROUND EL. DEPTH/EL. GROUND WATER S	ITE:		VIL 70		•					
220.5 💆 /		1		Vo	gtle Elect	ric Gene	rating Pla	ant - Wa	ynesbo	ro, GA
A N-VALUE (SPT)  O WATER CONTENT %  + ATT. LIMITS %  Fine 5. de 5.	3rd 6" ⊣ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field c	ON AND CL classification adjusting data and/or y field geologist/o	ASSIFICAT ted based on re-examination ngineer)	ION		LEVELS, CTER OF IG AND ATORY
SS V = : : : : : : : : : : : : : : : : : :	16	220.5	•	G	RAVEL (G	P) - Brown	(7.5YR 4/3) t, medium de	and dark	Top of F	ill at a depth
1 SS 2 7-7-10 8-8-5	8	219.0_ 217.3_ 215.0_	5—		AND, silty, (4) and red (2) ne to medium AND (SP)	CL clavey (SC- 2.5YR 4/8), n grained, r Yellowish r	SM)- Brown damp, medic conplastic ed (5YR 5/8	(7.5YR um dense/), dry,	of 0.0 fe Top of E	et
SS 4 3-3-3 SS M 3-3-3-5			-/ -/ -/	(5)	AND, silty, GYR 5/8) and	clayey (SC- strong bro c. fine to me	SM)-Yellov wn (7.5YR 5 edium graine	vish red / /8), dry		
5 SS A 2-3-5	0	210.0_	10-2	Sz   br   6/	AA except st own (5YR 4 6), low plast O RECOVI	rong brown /4), and bro icity	n (7.5YR 5/8) ownish yellov			
SS 7 7-10-8	3.5	207.3_	15-	SA (7 da no	AND, silty, o .5YR 5/8) and simp, medium onplastic, -H	clayey (SC- nd reddish l n dense, me CL	SM)- Strong orown (5YR dium grained	s brown 4/4), l,		
SS 8 5-5-6	13		20	S <sub>2</sub> ye lo	AA except st ellow (10YR w plasticity	rong brown 8/6), fine t	n (7.5YR 5/8) o medium gr	) and ained,		
SS 9 6-4-5	4	193.5_	25	S.	<b>A</b> A					
SS 10 A 4-4-5	18		30-	C 6/	<b>LAY, sandy</b> 6), damp, sti ained SANE	( <b>CL)</b> - Bro ff, low plas <b>)</b> , -HCL	wnish yellov ticity, fine to	v (10YR o medium		
SS 11 2-3-5	18	183.5_	35	S	AA except lo	oose, low to	medium pla	sticity		
SS N 6-6-8	0	178.5	40-	N	O RECOVI	ERY				
SS 13 2-3-3	17	1,0.5_	45	(2 m	.5Y 7/4), dai	mp, mediur	SM)- Pale yn dense, fine tic to low pla	to		
SS 4-5-6	17	,		S. (2	AA except your state of the second of the se	ellow (2.5Y I brownish	7/4), pale yo yellow (10Y)	ellow R 6/6),		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vo:	gtle Ur F	its 3 & 4 Coinal Log	OL Projec		<del></del>	HOLE NO	4035



GE	EC	TECHNICAL LO	<u> </u>	OJE(		3 & 4	C	DL Project   JOB NO.   SHEET NO.   SHEET NO.   2 OI	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - <del>7</del> 2nd 6" 0 3rd 6" <u>4</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14						-		low plasticity, contains CLAY lenses	
SS 15	X	<b>A</b>	5-9-11	14	163.5	55-		SAA except yellow (2.5Y 7/4) and pale yellow (2.5Y 8/3), moist	
SS 16	X	<b>A</b>	19-20-26	16		60-		*CLAY, with sand (CL)- Pale yellow (2.5Y 8/2), moist, hard, low plasticity, contains shell fragments, +HCL	
SS 17	X		14-23-50/3'	18		65-		SAA	
SS 18	X	<b>A</b>	6-10-13	18	153.5_	70-		SAND, clayey (SC)- Pale yellow (5Y 8/4), damp to moist, medium dense, medium to coarse grained, low plasticity, contains shell fragments, +HCL	Loss of circulation at a depth of 66.0 feet
SS 19	X	<b>A</b>	14-14-16	15		- - 75 –		SAA except dense, fine to medium grained, nonplastic to low plasticity	Installed 6" steel casing to a depth of 69.0 feet
SS 20	X	<b>4</b>	7-8-11	18		80-		SAA except damp, medium dense, nonplastic	
SS 21			50/0.5"	0	138.5_	- - 85-		NO RECOVERY	Top of Utley Limestone at a depth of 82.0 feet
SS 22	X	<b>A</b>	5-5-8	22	134.5_	- - - 90-		CLAY, silty (CL-ML)- Pale olive (5Y 6/3) and greenish gray (GLEY1 5/10Y), damp, stiff, nonplastic to low plasticity, +HCL	Top of Blue Bluff Marl at a depth of 86.0 feet
UD 1		O		26	118.5_	95—     100—		SAA except greenish gray (GLEY1 5/10Y) and (GLEY2 6/10GY), dry to damp, medium plasticity Pocket Penetrometer: >4.5 TSF SAA except greenish gray (GLEY2 6/10GY), low plasticity	Water level depth at beginning of 2/26/07 = 26.0 feet Advanced casing to a depth of 95.0 feet End logging by A. Reimer. Begin logging by L. Davis. Pitcher
UD 2		O` + + − − <del>   </del>		23	113.5_	105-		*SILT (MH) - Greenish gray (GLEY1 5/10Y), damp, low plasticity, +HCL Pocket Penetrometer: >4.5 TSF	Pitcher
			I	I	SITE	V 444 of		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4035</b>



GE	EOTECHNICAL LOG	PROJEC		3 & 4	COL Project	JOB NO. <b>6141-06-0286</b>	HOLE NO. B-4035	
SAMP. TYPE AND NO.	M-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	3rd 6" ⋛ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT		ON AND CLASSIFICAT assification adjusted based on esting data and/or re-examination rield geologist/engineer)	ION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 23	12-50	0/3" 15	108.5_	110	CLAY, silty w gray (GLEY) plasticity, +HC	v <b>ith sand (CL-ML)-</b> Gr 5/5GY), damp, hard, lov L	eenish w	
SS 24	29-35	5-33 23		115-	*CLAY, silty (GLEY2 5/5G plasticity, +HC	(CL-ML)- Greenish gray), damp, hard, mediun	ay 1	
SS 25	45-50	0/5" 18	98.5_	120	*SAA except and contains sl	greenish gray (GLEY1 6 hell hash	5/10Y)	Water level depth at beginning of 2/27/07 = 13.0 feet
SS 26	33-50	0/5" 16	96.3_	125	*CLAY, sand 6/10Y), damp,	y (CL) - Greenish gray hard, low plasticity, +F	(GLEY1 ICL	= 13.0 feet
SS 27	▲ 10-21	1-44 26		130	SAA			
SS 28	<b>▼</b> 50/3	5" 9		135	SAA			
SS 29	13-27-	50/4" 24		140-	SAA except lig 7/10Y), moist	ght greenish gray (GLE	Y1	
SS 30	13-15	5-21 26		145	SAA			
UD 3	<b>→</b> •Ð−++ □	18		150-	SAA except da Pocket Penetro	amp ometer: >4.5 TSF		Pitcher
SS 31	22-50	)/5" 16		155—	SAA except m	oist		
SS 32	10-12	2-16 28		160-	SAA except lig 7/5GY), damp plasticity	ght greenish gray (GLE s very stiff, low to medi	Y2 um	
SS	2-30-	50/4" 12	58.5_ SITE	Va	SAND, silty (Sogtle Units 3 & 4 CO	SP-SM)- Dark greenish	gray	Top of Still Branch Formation at a depth of 162.0 feet HOLE NO.
				445 of	Final Log			B-4035



GE	OTECHNICAL		OJECT ogtle		3 & 4	C	JOB NO.  OL Project 6141-06-0286	SHEET NO	
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT  + ATT. LIMITS %  □ FINES %  20 40 60	N-COUNT		Units  NULLERATION  ELEVATION  55.7-	3 & 4  L4 NIH IN E1	GRAPHICS	DESCRIPTION AND CLASSIFICAT  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
				SITE	V 446 of		e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-4035</b>



G	= (	OTECHNICAL LO	2	OJEC					JOB NO.		SHEET NO.		HOLE NO.
			<b>V</b> ,			3 & 4	CC	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	4 COMPL	B-4036
LOGG	ΕD	B. Sharp		OOR	DINATES	N 114	245	57.2 E 6208	276.3	11/13/20	06	11/15/	
DRILL	ER		D	RILL	MAKE AND			HOLE DIAM			ERIAL NUMB		TOTAL DEPTH
0001		Oglesby-MACTEC	- loi-		C	CME-7	75	51	nches		219907		170.0
GROU	ทบ <b>18</b>	$\nabla$ /	ER SITI	=:				Vogtle Elect	ric Gene	erating Pl	ant - Way	vnesho	ro. GA
		•1 <u>¥</u> /						v ogtie Elect	The Gene	raung ri	<u> </u>	ynesso	10, 011
SAMP. TYPE AND NO.	PLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %	1st 6" -5 2nd 6" 0 3rd 6" 1	RECOVERY (in)	ELEVATION IN FEET	N F	GRAPHICS	DE0.00/DE1.0					LEVELS,
A P.	SAMPLE	+ ATT. LIMITS %	1s 2n 3r	OVE	EVA N FE	DEPTH IN	RAP	DESCRIPTIO (* = field of	lassification adjus	sted based on	ION	DRILLIN	CTER OF NG AND
S,		☐ FINES %		REC	Щ_		O	of sample b	esting data and/or y field geologist/o	engineer)		LABOR TESTIN	
CC		20 40 60 80	6-6-8	14	218.1		8 8	D CAND -:14- (	CIMO Dissi	- (NI2 5/1) J		T £1	2:11 -4 - 441-
SS 1	X	<b>A</b>	10-9-8	18	217.9 <sup>-</sup> 217.5	-	×××	SAND, silty (S loose, contains GRAVEL (G	organics		- //	of 0.0 fe	Fill at a depth eet Barnwell
1 SS 2 SS	X	<b>A</b>	7-6-9	15	215.3_			Idama lagga a	ontains or	rainac	· · ·	Group a 0.6 feet	t a depth of
3 SS 4	X	<b>A</b>	8-9-12	18	212.6_	5-		SAND, clayey medium dense SAND, clayey medium dense SAND, silvy medium dense	ddish yello (SC)- Red , fine grain	ow (5YR 6/6 I (10R 4/8), i led	moist, /		
SS 5	X	<b>A</b>	9-12-17	18		-		medium dense SAA	, very fine	to fine grain	ed ed		
SS 6	X	<b>A</b>	8-10-11	16		10-		SAA except re	ed (10R 5/8	)			
SS 7	X	<b>A</b>	8-8-9	16		15-		SAA except ye	ellowish re	d (5YR 5/8)			
·					201.1_	-							
SS 8	X	<b>A</b>	6-12-17	14	199.1_	20-		CLAY, with s moist, medium plasticity SAND, silty (s medium dense		=	/ /		
SS 9	X	<b>A</b>	14-13-17	12		25		SAA red (2.5Y (10YR 6/8), ex					
SS 10	X	<b>A</b>	5-6-8	18	189.1_	30		SAA CLAY (CL)- moist, stiff, co	Yellowish ntains SAN	brown (10Y ND lenses 1 t	R 5/8), o 2mm		
					186.1_			thick					
SS 11	X	<b>A</b>	4-6-8	16	101.1	35-		SAND, silty (5/8), moist, mograined	SM)- Yello edium dens	owish brown se, fine to me	(10YR dium		
SS 12	X	<b>A</b>	3-5-5	18	181.1_	40-		CLAY, sandy (2.5Y 6/4), mo	(CL)- Lig	tht yellowish ery fine to fin	brown ne grained		
SS 13	X	<b>A</b>	3-5-5	18	171 1	45—		SAA except co	ontains zon	es of CLAY			
SS	X	<b>A</b>	2-2-5	18	171.1_	-		SAND, clayey moist, loose, v	ery fine to	fine grained	contains		
		ED BY: A. TAYLOR ED BY: P. DEPREE			SITE	V	ogtlo	e Units 3 & 4 Co Final Log		t		HOLE NO ${f B}$ .	-4036
		····				447 of	<del>724</del>		•				1000



GE	ΕΟΤ	ECHNICAL I		OJEC ogtl		3 & 4	C	JOB NO. SHEET NO. OL Project 6141-06-0286 2 OI	
SAMP. TYPE AND NO.	SAMPLE +	N-VALUE (SPT) WATER CONTENT % ATT. LIMITS % I FINES % 20 40 60 80	1st 2m 3rc	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14						-		manganese staining	
SS 15		<b>\</b>	4-4-7	18		- - 55 –		SAA except medium dense, contains CLAY lenses (pale yellow (5Y 7/4), low plasticity, 2mm thick)	
SS 16		<b>A</b>	5-8-10	12	156.4_	60-		SAA except very pale brown (10YR 7/4), moist, medium dense, fine to medium grained	
SS 17			1-2-2	17		65 –	- - - -	SILT, sandy (ML)- Pale yellow (5Y 7/3), moist, soft, fine to coarse grained, contains white shell fragments	
SS 18			1-1-1	12	146.1	70-	- - - -	SAA except very soft, medium to coarse grained SAND	Loss of circulation at a depth of 68.0 feet  Water level depth at beginning of 11/14/2006 = 62.5
SS 19	•	`	4-6-4	18		75—		SAND (SP) - Pale yellow (2.5Y 7/4), wet, medium dense, fine to coarse grained	Installed 3 25" steel
SS 20	X	<b>A</b>	7-10-14	16	126.1	80-		SAA except pale yellow (5Y 7/3), very fine to fine grained	casing to a depth of 74.0 feet. Changed to 2 7/8" drill bit.
SS 21	X	<b>A</b>	13-15-22	16	136.1_	85 —		SAND (SP) - Pale yellow (5Y 7/3), wet, dense, very fine to fine grained	Top of Utley Limestone at a depth of 82.0 feet Circulation returned at a depth of 82.0 feet.
SS 22			50/0.5"	0	131.1 <sub>_</sub>	- - - 90-		NO RECOVERY	Top of Blue Bluff
SS 23	X	<b>A</b>	8-15-37	18		- - 95 –	- - -	<b>SILT, sandy (ML)</b> - Dark greenish grey (5GY 4/1), moist, hard, very fine grained, nonplastic to low plasticity	Marl at a depth of 91.0 feet
SS 24	×		40-50/2"	8		100-	-	SAA	
SS 25	×		13-50/0"			105-	- - - - - - -	SAA except greenish grey (10Y 5/1)	
		<u>; i i i i i i i i i i i i i i i i i i i</u>			SITE	V	ogtl	e Units 3 & 4 COL Project	HOLE NO. <b>P</b> 4036
								Final Log	B-4036



GE	EOTECHNICAL LOG	PROJ <b>Vog</b>		3 & 4 (	JOB NO.   SHEET NO.   HOLE NO.   COL Project   6141-06-0286   3 OF 4   B-4036
SAMP. TYPE AND NO.	A N-VALUE (SPT)  O WATER CONTENT %  + ATT. LIMITS %  FINES % 20 40 60 80	2nd 6" S 3rd 6" Z RECOVERY (in)	ELEVATION	DEPTH IN FT	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)  NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	<b>A</b> 12	2-14-17 18	3	110-	SAA except contains white shell fragments
SS 27	2-3	39-50/5.5	.5	115-	SAA
SS 28	12	2-50/5" 1		120-	SAA  Water level depth at end of 11/14/2006 = 30.0 feet
SS 29	× • • • • • • • • • • • • • • • • • • •	50/4" 4		125—	SAA  30.0 feet  Water level depth at beginning of 11/15/2006 = 51.0 feet
SS 30	× • • • • • • • • • • • • • • • • • • •	50/4" 2		130-	SAA except dry to damp
SS 31		50/1" 1		135—	SAA except damp
SS 32	3:	5-50/2" 8	81.1_	140-	CLAY, silty (CL-ML)- Greenish grey (10Y 5/1), moist, hard, very fine grained, low to medium plasticity
SS 33		50/3" 3		145-	SAA except low plasticity
SS 34	15	5-27-36 18		150-	SAA
SS 35	21	1-23-35 18		155—	*SILT (ML)- Greenish grey (10Y 6/1), moist, hard, contains trace very fine grained SAND, low plasticity
SS 36	18	8-16-20 18	61.1_	160-	*CLAY (CL)- Greenish grey (10Y 6/1), moist, hard, contains trace very fine grained SAND, low plasticity
SS	16	6-11-13	SITE		SAA except very stiff, contains white shell  order Units 3 & 4 COL Project  HOLE NO.
			SITE	Vo:	Final Log B-4036



GE	OTECHNICAL LO		OJEC ogtl		3 & 4	C	JOB NO. SHEET NO. <b>OL Project</b> 6141-06-0286 4 O	
SAMP. TYPE AND NO. SAMPLE	☐ FINES %	1st 6" -z 2nd 6" O 3rd 6" ±	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
37 ×	20 40 60 80			52.1_	165-		fragments	Top of Still Branch
SS 38		9-16-15	18	48.1_	170-	50-50-50-50-50-50-50-50-50-50-50-50-50-5	SAND, silty (SM)- Dark greenish grey (5Y 4/1) and grey (2.5Y 5/1) and very dark grey (2.5Y 3/I), wet, dense, fine to medium grained, contains white shell fragments  Boring terminated at 170 feet	Top of Still Branch Formation at a depth of 166.0 feet Water level depth at end of 11/15/2006 = 28.0 feet Water level depth at beginning of 11/16/2006 = 66.2 feet
				SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-4036</b>



	PROJEC		3 & 4 (	COI	L Project	JOB NO.	06-0286	SHEET NO		DLE NO. B-5001
LOGGED BY		RDINATES					BEGUN		COMPLETED	
B. Sharp	DRILL	MAKE AND			7.1 E 6218 HOLE DIAME		3/16/200 HAMMER SE		3/20/20 BER T	07 OTAL DEPTH
White-MACTEC		C	ME-55	5	3 I	nches		331145		150.0
GROUND EL. DEPTH/EL. GROUND WATER S $219.0$ $\frac{V}{Y}$	SITE:			V	ogtle Electi	ric Gene	erating Pl	ant - Wa	vnesboro	o, GA
AND NO. O. O. WATER CONTENT %  Ist 6. D. O.	3rd 6" ≒ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIO (* = field cl. laboratory te of sample by	N AND CL assification adjusting data and/or field geologist/s	sted based on	ION	NOTES O WATER L CHARACT DRILLING LABORAT TESTING	EVELS, TER OF S AND
SS 20 40 60 80 WOH/6"	-1-1 5	219.0			SAND (SP) - B	Brown (7.5	YR 4/4), mo	ist, very	Top of Bar	rnwell
1 SS 2 SS 3 A 6-5-5	15	216.8_ 215.8_	5-		loose, fine to morganics SAA except ye CLAY, sandy 5/8), moist, stif SAND, with cl (5YR 5/8), moi to medium grai	ellowish red (CL)- Yel ff, low plast ay (SP-SC) ist, loose to	1 (5YR 5/8)	loose /	Group at a 0.0 feet	depth of
SS	11		-1		SAA except ye	llowish br	`			
5 SS A 4-4-5	17	208.5_	10-	$\mathcal{H}$	SAA except ye red (5YR 5/8), lenses CLAY,sandy (moist, stiff, low					
6 SS 7 A 3-3-4	18				moist, stiff, lov grained SAND SAA except fir			lium		
SS 8 4-7-9	17	202.0_ 198.0_	20	4111	<b>SAND, silty, c</b> 7/6), moist, me -HCL	layey (SC-dium dens	-SM)- Yellov e, low plasti	w (10YR city,	End loggir Sharp. Begin logg Davis.	
SS 9 4-6-10	)	192.0_	25-/		SAND, clayey moist, medium	(SC)- Yel dense, lov	low (10YR 7 v plasticity, -	7/6). +HČL 		
SS 10 \( \bigs \)	8	187.0_	30-		*CLAY, silty, 8/6), moist, har shell fragments	sandy (Cl d, medium s, +HCL	L-ML)- Yell n plasticity, c	ow (2.5Y contains		
SS 11 5-7-10	)	182.0_	35-		SAND, with si (2.5Y 8/4), mo plasticity, +HC	Ity clay (Sist, mediur	P-SC)- Pale n dense, low	yellow	Loss of cir depth of 3: Installed 3 casing to a 15.0 feet	" steel
SS	24	177.0	40-		SAND, clayey moist, medium	(SC)- Yel dense, lov	low (2.5Y 8/v plasticity,	/6), +HCL		
SS 13	18 17	172.0_	45-	<i>7</i> 22	*CLAY,silty (moist, hard, me cemented fragr	edium plas	ticity, contai	(5Y 8/3), ns	Advanced depth of 4:	casing to a 5.0 feet
SS   18-21-1	18 18			4111	*SAND, silty, (2.5Y 8/4), mo	ist, dense,	low plasticit	yellow y,		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vog 451 of 7	_	Units 3 & 4 CC Final Log		t		HOLE NO.  B-5	5001



GE	OTECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	· C	JOB NO. SHEET N OL Project 6141-06-0286 2 c	O. HOLE NO. B-5001
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 60 80			167.0_			contains shell fragments, +HCL	
SS 15	<b>A</b>	19-17-15	13	162.0	55—		SAND, with silty clay (SP-SC)- Pale green (GLEY1 8/2), moist, medium dense, nonplastic, +HCL	
SS 16	<b>A</b>	14-19-18	18	162.0_	60-		*CLAY, silty, sandy (CL-ML)- Pale yellow (2.5Y 8/2), moist, hard, medium plasticity, constains shell fragments, +HCL	
SS 17	<b>A</b>	9-10-22	18	152.0_	65—		*SAA except pale yellow (2.5Y 8/2)	
SS 18	_	50/2"	2	147.0	70—		*SAND, with clay (SP-SC)- Pale green (2.5Y 8/2), moist, very dense, low plasticity, contains shell fragments, +HCL	
SS 19	4	10-30-50/3"	17	142.0_	75—		SAND, clayey (SC)- Pale yellow (2.5Y 8/2), moist, very dense, medium plasticity, +HCL	
SS 20	<b>A</b>	10-18-17	12	137.0_	80-		SAND (SP) - Very pale yellow (10YR 8/2), moist, medium dense, nonplastic, +HCL	
SS 21	<b>A</b>	8-11-14	14	132.0_	85—		SAND, with silt (SP-SM)- Yellow (10YR 8/6), moist, medium dense, fine to medium grained, nonplastic, +HCL	
SS 22	<b>A</b>	5-8-12	15	2 - 13 -	90-		SAND, with silty clay (SP-SC)- Yellow (10YR 8/6), moist, medium dense, fine grained, low plasticity, +HCL	
SS 23	<b>A</b>	8-10-11	14	122.0	95—		SAA	
SS 24	<b>A</b>	18-5-6	12	117.0_	100-		*CLAY, silty, sandy with shells (CL-ML)- Reddish yellow (7.5Y 8/6), moist, stiff, medium plasticity, +HCL	Loss of circulation at a depth of 99.0 feet
SS 5	<b>A</b>	6-8-14	21	117.0_	105-		CLAY, silty with sand (CL-ML)- Greenish gray (GLEY1 5/10GY), damp, very stiff, low plasticity, +HCL	Top of Blue Bluff Marl at a depth of 102.0 feet
-				112.0_ SITE	-	ogtl	e Units 3 & 4 COL Project	Advanced casing to a depth of 105.0 feet  HOLE NO.
						724	Final Log	<b>B-5001</b>



GE		TECHNICAL LO	<u> </u>	PROJECT         JOB NO.         SHEET NO.           Vogtle Units 3 & 4 COL Project         6141-06-0286         3 of								
S TYPE O NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" L	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATIO  (*= field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING		
SS 26	X	•	17-50/4"	9	107.0	110-	-	SILT, with sand (ML)- Greenish gray (GLEY1 5/5G), damp, hard, low plastic +HCL	eity,	Water level depth at beginning of 03/20/0 = 49.0 feet Advanced casing to depth of 110.0 feet		
SS 27	X		8-50/6"	14	102.0	115-		CLAY, silty with sand (CL-ML)- Gregray (GLEY1 5/5G), damp, hard, medic plasticity, +HCL	enish um			
SS 28	X	<b>A</b>	8-14-19	23	97.0	120-		SILT, with sand (ML)- Greenish gray (GLEY1 6/5G), damp, hard, low plastic +HCL	eity,			
SS 29	X	•	13-23-50/6"	22	97.0_	125-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 6/10Y), damp, hard, low plasti +HCL	icity,			
SS 30	X	<b>A</b>	11-14-15	26		130-		SAA except grayish green (GLEY1 4/2) stiff	), very			
SS 31	×		23-50/1"	8		135-		SAA except greenish gray (GLEY1 6/10 hard	0Y),			
SS 32	X	<b>A</b>	14-15-43	26	82.0_	140-		CLAY (CL) - Light greenish gray (GLF 7/10Y), damp, hard, low plasticity, +HC	EY1 CL			
SS 33	X	A	14-14-24	28		145-		SAA				
SS 34	X	<b>A</b>	19-23-22	28	69.0_	150-		SAA except light greenish gray (GLEY 7/5GY), medium plasticity Boring terminated at 150 feet	1			
					SITE	453 of	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-5001</b>		



GF	ЮΤ	ECHNICAL LO	C	OJEC		• • •	~		JOB NO.	26.006	SHEET NO		HOLE NO.
LOGGE		LOTHIOAL LO	•		e Units	3 & 4	CO	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMP	B-5002
LOGGE	וטטו	G. Pillappa		JOOK		N 114	633	39.8 E 6218	808.3	3/13/200	)7	3/14/	
DRILLE	R	оттынры	D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
		Banks-MACTEC			C.	ME-5	<u>50</u>	51	nches		337153		150.0
GROUI	41.5	DEPTH/EL. GROUND WAT	TER SIT	E:				Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesb	oro, GA
SAMP. TYPE AND NO.		N-VALUE (SPT)	N-COUNT	RECOVERY (in)	N <sub>C</sub>	F	ဂ္ဂ					NOTES	
T.O	SAMPLE + O	WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ĒR	ATI( :EEJ	Z I	H	DESCRIPTION	ON AND CI	ASSIFICAT	ION		R LEVELS, ACTER OF
AMP AND	+ SAN	ATT. LIMITS %	2 2	8	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	( * = field c	lassification adju- esting data and/or y field geologist/o	sted based on			NG AND RATORY
S)		FINES %		8	Ш	DE		of sample b	y field geologist/	engineer)		TESTI	
SS		20 40 60 80	1-2-1	18	241.5		সায়ার	CAND silty (	CM) Stron	a brown (7.4	SVD.	Top of	Barnwell
1			1-1-1	18		-		SAND, silty (\$4/6), dry, very	loose, fine	grained, nor	plastic,	Group	at a depth of
	Ă,			10		-		contains organ SAA except y	ellowish re	d (5YR 5/8)		0.0 100	
SS 2 SS 3	$ abla^{lack}$		2-2-2	5		5-		SAA except re	ed (2.5YR 4	4/8)			
SS 4			2-2-3	11		-		SAA except lo	oose				
SS 5			3-2-4	14		-		SAA					
SS 6	$\square$		2-4-6	13		10-		SAA					
SS		<b>A</b>	6-8-10	11				SAA except m	adium dan				
7	Д		0 0 10	11		15—		SAA except ii	iediuiii deii	SE			
						-							
o o		<b>\</b>	5-6-6	14		-		C A A	11 . 1	1 (5VD 5/0)	1		
SS 8	Д		3-0-0	14		20-		SAA except your medium dense traces	e, low plasti	icity, contain	s CLAY		
					219.5_	-							
	Ц					-							
SS 9	X	<b>                                 </b>	9-22-24	17		25-		SAND, clayey dense, fine gra	( <b>SC)</b> - Red lined, low p	d (2.5YR 4/8 olasticity	), damp,		
						-							
SS 10		^	6-7-8	11		30-		SAA except your medium dense	ellow (10Y	R 7/6), dry to	o damp,		
					209.5	50							
					409.3_	-							
SS 11			2-3-4	18		25		CLAY, sandy damp, medium	(CL)- Yel	llow (2.5Y 7)	/6), v. fine		
11						35-		grained SAND	), -HCL	F	,,		
						-							
SS	A		2-2-3	18		-		SAA except pa	ale yellow	(5Y 7/4)			
12						40-							
						-							
SS 13	<b>A</b>		4-4-5	18				SAA except st	iff				
13	H					45 —							
					194.5_								
SS	$\forall$	<b>A</b>	5-6-12	18		-		CLAY, with s	and (CL)-	Pale yellow	(5Y 7/4),		
	<mark>∐</mark> RED B	: : : : : : : : : : : : : : : : : : :			SITE	V	ogtl	damp, very sti e Units 3 & 4 C	ff, low plas	sticity, contai	ns fine	HOLE N	0.
		Y: P. DEPREE						Final Log					-5002
						454 of	724						



GE	ΕC	OTECHNICAL LO	$\square$	OJE(		3 & 4	l C(	JOB NO. SHEET N OL Project 6141-06-0286 2 c		HOLE NO. <b>B-5002</b>		
SAMP. TYPE AND NO.	SAMPLE	☐ FINES %	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTE WATE CHAR DRILL	S ON: :R LEVELS, :ACTER OF .ING AND RATORY		
14		20 40 60 80			189.5_	-		grained SAND traces, +HCL				
SS 15	X	<b>A</b>	10-12-14	11	184.5_	55 —		SAND, clayey (SC)- Pale yellow (5Y 8/2), damp, medium dense, fine to medium grained, contains shell fragment, +HCL	Loss of a dept	of circulation at h of 55.0 feet		
SS 16	X		WOH/12"-1	18		60-		CLAY, silty with sand (CL-ML)- Pale yellow (5Y 7/4), damp, medium stiff, constains shell fragments, +HCL				
SS 17	X	<b>A</b>	5-6-6	18	174.5	65-		SAA except stiff, low plasticity	Install casing	ed 3" steel to a depth of eet		
SS 18	X	<b>A</b>	11-15-13	16	174.3_	70-		SAND, clayey (SC) - Pale yellow (5Y 8/2), damp, medium dense, fine grained, contains shell fragments, +HCL	65.0 f	eet		
SS 19	X	<b>A</b>	26-37-25	15		75-		SAA except very dense				
SS 20	X	<b>A</b>	11-17-15	18		80-		SAA except dense, low plasticity				
SS 21	X	<b>A</b>	39-25-17	18		85 —		SAA				
SS 22	X	<b>A</b>	13-37-17	15		90-		SAA except very dense				
SS 23	X	<b>A</b>	10-13-11	14		95 —		SAA except very pale brown (10YR 8/2), medium dense				
SS 24	×		50/4"	2	139.5_	100-		SAA except very dense				
SS 25	X	<b>A</b>	27-38-26	14		105-		SAND, with silt (SP-SM)- Pale yellow (5Y 8/3), damp, very dense, fine grained, nonplastic, +HCL				
	134.5											



GE	ΞC	TECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	l Co	DL Project   JOB NO.   SHEET   6141-06-0286   3	NO. OF <b>3</b>	HOLE NO. <b>B-5002</b>
SAMP. TYPE AND NO.	SAMPLE		1st 6" - 7 2nd 6" O 3rd 6" - 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NC W/ CH DF LA	OTES ON: ATER LEVELS, IARACTER OF RILLING AND BORATORY STING
SS 26	X	<b>A</b>	10-15-12	18		- 110-		SAND, clayey (SC)- Light gray (10YR 7/2), damp, medium dense, fine grained, low plasticity, contains shell fragments, +HCL		
SS 27	X	<b>A</b>	10-15-16	18	124.5_	- - 115—		SAA		
SS 28	X	<b>A</b>	10-37-31	18	121.3_	120-		CLAY, silty with sand (CL-ML)- Pale yellov (2.5Y 8/3), damp, hard, contains shell fragments, +HCL	v	
SS 29	$\boxtimes$		9-50/3"	9	114.5_	125—		SAA		
SS 30	X	<b>A</b>	7-11-16	18	114.5_	130-		CLAY, silty (CL-ML)- Greenish gray (GELY1 5/5GY), dry, very stiff, low plasticity contains shell fragments and fine sand trace, +HCL	To Ma	p of Blue Bluff Irl at a depth of 7.0 feet
SS 31	X	<b>A</b>	9-31-33	18		135—		SAA except hard		
SS 32			50/1"	1		140-		SAA except damp		
SS 33	X	<b>A</b>	9-17-20	18		- - 145—		SAA except contains sand seams		
SS 34	X	<b>A</b>	13-23-34	18	91.5_	150-		SAA  Boring terminated at 150.0 feet		
					SITE	v	ogtl	e Units 3 & 4 COL Project Final Log	НОІ	E NO. <b>B-5002</b>



GI	= <u></u>	TECHNIC		<u> </u>	OJEC		<b>3</b> 0 .	~~	)	JOB NO.		SHEET NO		HOLE NO.
LOGG				V .		e Units :	3 & 4	C(	OL Project	6141-0	06-0286 BEGUN	1 OF	COMP	B-5003
	בט ט	G. Pillap	na		JURI		N 114	1638	36.6 E 6215	574.7	3/14/200	)7		2007
DRILL	ER			D	RILL	MAKE AND			HOLE DIAM	IETER	HAMMER SE			TOTAL DEPTH
CDC:	INID 5	Banks-MAC		ED JOIT	<u></u>	Cl	ME-5	50	6 I	Inches		337153		148.7
GROL 2	27.	$\nabla$ $\prime$	MAII UNU WAII	ER SITI	⊑.				Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	oro, GA
SAMP. TYPE AND NO.	Щ	▲ N-VALUE (SP1		N-COUNT	RECOVERY (in)	N O H	F	ပ္သ					NOTES	
<u>-</u> 0	MPL	O WATER CONT	ENT %	1st 6" 2nd 6" 3rd 6"	VER	ELEVATION IN FEET	DEPTH IN	GRAPHICS	DESCRIPTION			ION	CHARA	R LEVELS, ACTER OF
AN	SA	+ ATT. LIMITS %	Ď		8		EP	GR/	( * = field c laboratory t of sample b	classification adjust testing data and/or by field geologist/o	re-examination engineer)		LABOF	NG AND RATORY
"		☐ FINES % 20 40 60	0 80		[쮼	227.9			-				TESTI	NG
SS		20 40 60	) 80 :	1-2-2	16	221.9			SAND, silty (S	SM)- Stron	g brown (7.5	SYR mlastic	Top of	Barnwell
1   SS   2		·		1-1-1	18		-		SAND, silty (\$4/6), dry, very contains organ SAA except years.	ioose, iine iics ellowish re	grameu, noi d (5YR 5/6)	contains	0.0 feet	Barnwell at a depth of
$\begin{bmatrix} 2 \\ SS \\ 3 \end{bmatrix}$		<b>\</b>		1-2-2	17		- 5-		no organics SAA except st					
SS 4		<b>\</b>		2-2-2	14		- -		SAA except st	rong brown	n (7.5YR 5/8	)		
SS 5	4	<b>A</b>		2-2-3	13		10-		SAA except ye	ellowish red	d (5YR 5/8),	loose		
SS 6	X	<b>A</b>		2-5-7	16		-		SAA except m	nedium dens	se			
SS 7	X	<b>A</b>		5-7-10	13		15-		SAA except st	crong brown	ı (7.5YR 5/8	)		
SS 8	X	<b>A</b>		5-11-17	13		20-		SAA except yo	ellowish red	d (5YR 5/8)			
SS 9		<b>A</b>		11-15-20	11		25-		SAA except de	ense				
SS 10		<b>A</b>		8-12-12	12	195.9	30-		SAA except m phosphate grain	nedium dens ins	se, contains	trace		
SS 11		•		15-23-27	12	190.9	35—		SAND, with s (10YR 6/8), di nonplastic, -Hi	amp, very c	)- Brownish lense, fine gr	yellow rained,		
SS 12		<b>A</b>		9-10-7	17		40-		SAND, clayey 6/8) to pale ye dense, fine gra	( <b>SC</b> )- Bro ellow (5Y 7) nined, low p	wnish yellov 3), damp, molasticity	w (10YR edium		
SS 13		<b>A</b>		4-9-7	16	180.9_	45-		SAA					
SS	X	<b>A</b>		3-3-5	18		- -		CLAY, sandy (2.5Y 6/4), dar	mp, mediur	<u>n stiff, low p</u>	olasticity,		
		BY: A. TAYLOR BY: P. DEPREE				SITE	V	ogtl	e Units 3 & 4 Co Final Log	OL Projec	t	-	HOLE N	o. - <b>5003</b>
IXLVIE	.vv = L	, DI.I. DEFREE					457 of	724		5			ע	3003



GE	EC	TECHNICAL LOG	<u> </u>	OJE(		3 & 4	l CC	DL Project 614	NO. <b>41-06-0286</b>	SHEET NO		HOLE NO. <b>B-5003</b>
SAMP. TYPE AND NO.	SAMPLE	A N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	-COUNT	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AN	D CLASSIFICATI		NOTE: WATE CHAR DRILL	S ON: R LEVELS, ACTER OF ING AND RATORY
14						-		fine grained SAND				
SS 15	X	<b>A</b>	2-3-6	18		55-		SAA except brownis	sh yellow (10YR 6	/6), stiff		
SS 16	X	<b>A</b>	2-3-6	18		60-		SAA			Loss o a depth	f circulation at a of 57.0 feet
SS 17	X	<b>A</b>	4-5-6	11	165.9_	65-		SAND, clayey (SC)-6/6), damp, medium plasticity, contains S	- Brownish yellow dense, fine graine AND seams	(10YR ed low		
SS 18	X	<b>A</b>	2-2-2	15		70-		SAA except very loo phosphate grains and	ose, contains trace I shell fragments, -	-HCL		
SS 19	X	<b>A</b>	2-4-4	12.5		75 —		SAA except light yelloose	llowish brown (10	YR 6/4),	Installe casing	ed 3" steel to a depth of et
SS 20	X	<b>A</b>	2-3-6	17		80-		SAA except pale bro plasticity	own (10YR 6/3), m	nedium	75.0 fe	et
SS 21	X	<b>A</b>	5-6-6	15		85-		SAA except medium	n dense			
SS 22	X	<b>^</b>	5-5-7	14	125.0	- - 90-		SAA except brownis	sh yellow (10YR 6	/6)	Water end of	level depth at 3/14/07 = Top
SS 23	X	<b>A</b>	14-20-22	9	135.9_ 130.9	95—		SAND, with silt (SP (10YR 7/4), damp, d nonplastic	<b>P-SM)</b> - Very pale bense, fine grained,	orown	of casi	ng level depth at ing of 3/15/07
SS 24	X	<b>A</b>	7-9-9	14	130.9_	100-		SAND, with clay (S (10YR 7/3), damp, n nonplastic, -HCL	P-SC)- Very pale nedium dense, fine	brown e grained,		
SS 25	X	<b>A</b>	5-7-7	14	120.9	105-		SAA				
		<u> </u>			SITE	V	ogtl	e Units 3 & 4 COL Pr Final Log	oject		HOLE N	o. 8-5003
					1	458 o	724					



GE	OTECHNICAL LO		OJE(		3 & 4	l C	JOB NO. SHEET NO <b>OL Project</b> 6141-06-0286 3 OF		DLE NO. B-5003
SAMP. TYPE AND NO. SAMPI F	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" 00 3rd 6" 12	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES C WATER L CHARAC DRILLING LABORA TESTING	EVELS, TER OF S AND FORY
SS 26	20 40 60 80	6-5-36	17		110-		SAND, clayey (SC)- Pale yellow (5Y 8/3), damp, dense, fine to medium grained, low plasticity, contains shell fragments, +HCL		
SS 27		14-1-1	9	110.9	115—		SAA except light gray (5Y 7/2), very loose		
SS 28	<b>A</b>	7-12-16	18	110.9_	120-		*CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/10GY), dry to damp, very stiff, low plasticity, contains trace phosphate grains and shell fragments, +HCL	Top of Bl Marl at a 117.0 feet	depth of
SS 29	7	14-24-50/1"	18		125-		SAA except hard		
SS 30		13-14-50/5"	18		130-		SAA		
SS 31	<b>A</b>	7-12-19	18		135-		SAA		
SS 32		16-16-26	18		140-		SAA except greenish gray (GLEY1 5/5GY)		
SS 33	<b>A</b>	12-16-20	18		145—		SAA except greenish gray (GLEY1 5/10GY)		
SS 34	•	50/2"	4.5	79.2_	_		SAA except greenish gray (GLEY1 6/5GY) Boring terminated at 148.7 feet		
				SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO.	5003



GF	= (	OTECHNICAL LO	C	OJE		•	201 5	JOB NO.	26.006	SHEET NO		HOLE NO.
LOGG			<b>,</b>		e Units	3 & 4 (	COL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	3 COMPL	B-5004
LOGG	וטם	S. Woodham		OOR		N 1146	547.8 E 6215	568.4	3/14/200	)7	3/15/	
DRILL	ER		D	RILL	MAKE AND		HOLE DIAM		HAMMER SE			TOTAL DEPTH
0001		White-MACTEC	- loir		C	ME-55	3 1	nches		331145		149.8
GROU 2	ир <b>36</b> .	$\nabla$ /	TER SITI	Ε:			Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	oro, GA
		- /									<i>y</i>	
뷥.		▲ N-VALUE (SPT)	N-COUNT	RECOVERY (in)	N.	F à	3				NOTES	ON:
SAMP. TYPE AND NO.	SAMPLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ΈR	ELEVATION IN FEET	DEPTH IN FT	E DESCRIPTION	ON AND CI	ASSIFICAT	ION		R LEVELS, CTER OF
AMP	SAI	+ ATT. LIMITS %	3 2	200	LEV IN F	EPTI	(* = field of laboratory t	lassification adju- esting data and/or y field geologist/or	sted based on		DRILLII	NG AND ATORY
Ś		☐ FINES %		RE	Ш		of sample b	y field geologist/	engineer)		TESTIN	IG
SS		20 40 60 80	WOH/6"-1-	1 16	236.6	(4.1	SAND with s	ilt (SP_SM	D- Light vell	owish	Ton of	Barnwell
1	$\bigvee$	<b>A</b>	WOH/6"-1-	1 14			SAND, with s brown (2.5Y 6 grained, conta	(31 -31) (4), damp, ins organic	very loose, f	ine	Group a	it a depth of
2	Å						SAA except co	ontains no o	organics		0.0 1000	
SS 2 SS 3	M		2-1-2	16	231.1	5—	SAA except st	rong brown	n (7.5YR 5/6	)		
SS 4	M	<b>A</b>	2-3-6	15	231.1_		SAND, silty, 6 4/6), damp, lo	clayey (SCose, fine gr		10R		
SS 5	X	<b>A</b>	6-9-11	14			SAA except m					
SS		<b>A</b>	6-8-8	15		10-	SAA					
6					223.6_		<del>   </del>					
SS 7	$\mathbb{X}$		8-12-13	16		15—	SAND, with s damp, mediun	ilt (SP-SM n dense, fin	I)- Red (2.5Y le grained	R 5/8),		
					219.6	1			_			
					219.0_		<del>  </del>	. — — —				
SS 8	X	<b>^</b>	11-14-12	15		20	SAND, silty (smedium dense	SM) - Red (	(2.5YR 5/8), red	damp,		
0	П					20		, me grum				
					214.6_							
SS	M	<b>A</b>	4-10-11	13	212.1_	-//	CLAY, with s damp, stiff, lo	and (CL)-	Yellow (10	YR 7/6),		
9	H					25	SAND (SP) - damp, medium	w plasticity Reddish ye	llow (7.5YR	6/6),		
							damp, mediun	n dense, fin	e to medium	grained		
SS	$\mathbb{H}$	<b>A</b>	9-13-10	16			SAA					
10	A					30-						
					204.6_	-	<u> </u>					
aa			3-4-7	18			CLAY	(CL) V	llow (2.53/5	/0)		
SS 11	X		3-4-/	18		35-	CLAY, sandy damp, stiff	(CL)- Yel	llow (2.5 Y 7)	/8),		
					199.6_							
					177.0_							
SS 12	X		2-3-4	18		- //	SAND, clayey damp, loose, f	(SC) - Pal	e yellow (5Y	7/3),		
14						40-7	, aump, 1005c, 1	v grunnou	•			
					194.6_		4					
SS	$\forall$	<b>A</b>	1-3-3	18			ÇLAY, saṇdy	( <b>CL</b> )- Pal	e yellow (5Y	7/3),		
13	H					45-	damp, mediun	1 stiff, low	piasticity			
					189.6_		<b>/</b>					
SS	×		50/5"	5			*SHELL HAS	SH, with c	lav and sand	l (GP-GC)		
	     ARF	ED BY: A. TAYLOR			SITE	Voc	- Pale yellow (	<u>5Y 8/2), da</u>	amp, hard, fii	ne to	HOLE NO	).
		ED BY: P. DEPREE					Final Log		•			-5004
						460 of 7	24			-		



GE	ΞΟ	OTECHNICAL LO		ojec ogtl		3 & 4 C		ET NO.	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" OO 3rd 6" 1z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40 00 00			184.6_		coarse grained SAND, +HCL		Loss of circulation at a depth of 50.0 feet
SS 15	X	<b>A</b>	11-12-17	18		55-	SAND, clayey (SC) - Pale yellow (5Y 8/2), damp, very stiff, fine to coarse grained, contains shell fragments, +HCL	,	
SS 16	X	<b>A</b>	5-5-8	18	174.6_	60-	SAA except stiff, fine grained, contains no fragments	shell	Installed 4" steel casing to a depth of 58.5 feet
SS 17	X	<b>A</b>	10-10-10	14	174.0_	65 – 6	*SHELL HASH, sandy with clay (GP-G-Pale yellow (5Y 8/3), damp, medium dense fine to coarse grained, +HCL	C)-	
SS 18	X	<b>A</b>	10-15-27	18		70-0	SAA except pale yellow (5Y 7/3)		
SS 19	X		13-20-50/5"	17		75	SAA		
SS 20	X	A	8-12-6	18		80-	SAA except yellow (2.5Y 8/6)		
SS 21	X	<b>A</b>	10-13-15	14	140.6	85 – 0	SAA except pale yellow (2.5Y 8/3)		
SS 22	X	<b>A</b>	9-11-13	18	149.6_	90-	SAND, clayey (SC)- Very pale brown (10' 7/3), damp, medium dense, fine to coarse grained, +HCL	YR	
SS 23	X		26-23-50/5"	17	120 (	95	SAA except pale yellow (2.5Y 8/2), very d	ense	Water level depth at end of 3/14/07 = 10.0
SS 24	X	<b>A</b>	20-34-45	15	139.6_	100-	SAND, with silt (SP-SM)- Pale yellow (2. 8/3), moist, very dense, fine to medium gra	5Y ined	feet Water level depth at beginning of 3/15/07 = 30.0 feet
SS 25	X	<b>A</b>	11-11-18	18	134.6_	105-	SAND, silty, clayey (SC-SM)- Pale yellow (2.5Y 7/4), moist, medium dense, fine grain contains CLAY seams	ned,	
	1		1		SITE	Vog	le Units 3 & 4 COL Project Final Log		B-5004



GE	EC	TECHNICAL LO	<u> </u>	OJE(		3 & 4	l Co	JOB NO.   SH DL Project   6141-06-0286	HEET NO.	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>△</b>	11-15-14	17	124.6	110-		SAA except pale yellow (2.5Y 7/3)		
SS 27	X	<b>A</b>	12-11-17	14	119.6	115-		SAND, silty (SM)- Pale yellow (2.5Y 7/3 damp, medium dense, fine to medium gracontains shell fragments	73), ained,	
SS 28	×	,	50/5"	5	114.6	120-		SAND, clayey (SC)- Pale yellow (5Y 8/2 damp, very dense, fine to coarse grained, contains cemented shell fragments, +HCl	2), L	Top of Utley Limestone at a depth of 117.0 feet
SS 29	X	<b>A</b>	10-12-18	20	109.6	125-		CLAY (CL) - Dark greenish gray (GLEY 4/10Y), damp, hard, low plasticity, +HCI	Y1 L	Top of Blue Bluff Marl at a depth of 122.0 feet
SS 30	X		15-18-50/5"	17	107.0_	130-		CLAY, silty, sandy (CL-ML)- Dark gregray (GLEY1 4/5GY), damp, hard, low plasticity, contains cementation, +HCL	eenish	
SS 31	$\boxtimes$	4	10-50/3"	12		135-		SAA		
SS 32	X	<b>A</b>	6-14-22	18	94.6	140-		SAA except greenish gray (GLEY1 5/10° contains no cementation	Υ),	
SS 33	×	•	50/3"	3	94.0_	145—		CLAY (CL) - Greenish gray (GLEY1 6/1 damp, hard, low plasticity, +HCL	10Y),	
SS 34	X	•	19-27-50/4"	16	86.8_	- - -		SAA Boring terminated at 149.83 feet		
					SITE	V	ogtl/	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-5004</b>



GEOTECHNICAL LOG	:	OJEC ootle		3 & 4	l CC	JOB NO.  OL Project 6141-0		T NO.	HOLE NO. <b>B-6002</b>
LOGGED BY			DINATES			,	BEGUN	COMF	PLETED
B. Mabie DRILLER	DI	RILL N	MAKE AND	N 114 MODE		HOLE DIAMETER	2/15/2007 HAMMER SERIAL N		/2007 TOTAL DEPTH
White-MACTEC  GROUND EL. DEPTH/EL. GROUND WATER	R SITE	<u> </u>	C	ME-	55_	3 Inches	3311	45	150.0
247.9 \(\tilde{\t	X SITE					Vogtle Electric Gene	erating Plant -	Waynesb	oro, GA
	2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CL  (* = field classification adju- laboratory testing data and/or of sample by field geologist/a	sted based on	CHAR DRILL	R LEVELS, ACTER OF ING AND RATORY
	OH/6"-1-1 3-4-3 2-1-2 2-6-8	9 12 16	242.4_	- - - - 5 —		SAND, with silt (SP-SM (10YR 5/4), damp, very l -HCL SAA except loose, fine gr SAA except brownish ye moist, very loose 	oose, nonplastic, rained llow (10YR 6/4),	Grōup 0.0 fee	Barnwell at a depth of t
SS	7-9-9 6-12-14 6-7-12	14 16	237.4_	10-		nonplastic, -HCL SAA  SILT, with sand (ML)-very stiff, nonplastic, -HC			
7	5-8-8	15	225.9	15-		SAA except moist		Install casing - — 20.0 fe	ed 3" steel to a depth of
SS X	5-7-9	7		25-		SAND, silty (SM)- Red (medium dense, fine grain	(10R 4/8), wet, ed, nonplastic, -HC		
SS 10 A	7-8-9	12	215.9_	30-		SAA			
SS 11	4-5-5	14	210.9_	35-		CLAY, silty, sandy (CL brown (10YR 8/2), moist -HCL	-ML)- Very pale , stiff, low plasticit	y, - — —	
SS 12	3-3-2	17	205.9_	40-	-	SILT, sandy (ML)- Very 8/2), wet, medium stiff, n medium grained SAND,	y pale brown (10Yl onplastic, fine to -HCL	R	
SS 13	2-2-3	18	200.9_	45-		CLAY, silty (CL-ML)-brown (2.5Y 6/3), moist, plasticity, contains SANI	Light yellowish medium stiff, low D lenses, -HCL		
	3-19-14	18	CITE	- -		CLAY, silty with sand (yellowish brown (2.5Y 6)			10
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE			SITE	463 of		e Units 3 & 4 COL Projec Final Log	t	HOLEN	B-6002



GE	OTECHNICAL LO	<u> </u>	OJEC ogtle		3 & 4 C	DL Project   JOB NO.   SH	HEET NO 2 OF	
, /S	MATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14						low plasticity, -HCL		
SS 15		5-17-5	16	190.9_	55—	SAA except light gray (2.5Y 7/2), contain shell fragments, +HCL	ns	
SS 16	×	50/5"	16		60-	CLAY, silty (CL-ML)- Light gray (2.5Y moist, hard, low to medium plasticity, coshell fragments, +HCL	Y 7/2), ontains	
SS 17		14-16-27	18		65—	SAA except greenish gray (GLEY1 5/100 low plasticity	GY),	
SS 18	X •	7-9-12	18	175.0	70-	SAA except very stiff		
SS 19	_	50/1"	0.25	175.9_	75-	*SHELL HASH (GP)- Cemented shell fragments		
SS 20	<b>A</b>	14-13-16	18	170.9_	80-	SAND, with silty clay (SP-SC)- Pale yel (2.5Y 8/3), wet, medium dense, low plast contains shell fragments, +HCL	llow ticity,	
SS 21	<b>A</b>	13-18-27	16		85-	SAA except dense		
SS 5		11-8-34	18	155.0	90-	SAA		
SS 23		5-8-10	18	155.9_ 150.9_	95-	CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/10GY), moist, very stiff, low medium plasticity, contains minor shell fragments, +HCL	to	
SS 24		18-25-29	18	130.7_	100-	CLAY, silty with sand (CL-ML)- Pale v (2.5Y 8/2), moist, hard, low plasticity, co shell hash, +HCL	yellow ontains	Water level depth at end of 2/15/07 = 21.39 feet
SS 25	X	16-23-19	18		105—	SAA		Water level depth at beginning of 2/16/07 = 40.55 feet
	<u> </u>	I		SITE	Vogtl	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-6002</b>



GE	EC	TECHNICAL LO	<u> </u>	OJEC ngtl		3 & 4	L C	JOB NO. SHEET NO <b>OL Project</b> 6141-06-0286 3 OF		HOLE NO. <b>B-6002</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" - z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTE WATE CHAR DRILL	S ON: IR LEVELS, ACTER OF ING AND RATORY
SS 26	X	20 40 60 80	25-34-24	18		110-		SAA except wet		
SS 27	X	<b>A</b>	5-13-8	18	135.9_	115-		SAND, silty, clavey (SC-SM)- Very pale brown (10YR 7/3), wet, medium dense, nonplastic to low plasticity, contains shell fragments, +HCL		
SS 28	X	<b>A</b>	4-7-13	18	130.9_	120-	<u>(411</u>	SAND, silty (SM)- Very pale brown (10YR 7/3), wet, medium dense, nonplastic, contains shell fragments, +HCL		
SS 29	X	<b>A</b>	9-15-21	12	120.9_	125-		SAA except dense		
SS 30	X	<b>A</b>	19-19-35	16	115.9	130-		SAND, with silty clay (SP-SC)- Very pale brown (10YR 7/3), wet, very dense, nonplastic to low plasticity, contains shell fragments, +HCL		
SS 31	X	<b>A</b>	33-14-17	18	113.5_	135-		SAND, silty (SM)- Very pale brown (10YR 7/3), wet, dense, nonplastic, contains shell fragments, +HCL		
SS 32	X		10-12-50/4"	15	105.9	140-		SAA except very dense, fine grained		
SS 33	X		12-14-50/5"	15	_	145—		CLAY, silty with sand (CL-ML)- Very pale brown (10YR 8/2), wet, hard, low plasticity, contains shell hash, +HCL		
SS 34	X	<b>A</b>	6-8-19	18	97.9_	150-		SAA except very stiff Boring terminated at 150.0 feet		
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE N	no. <b>B-6002</b>



		ECHNICAL LO	$ G _{V_0}$	_	le Units	3 & 4	CC	DL Project	JOB NO. <b>6141-</b>	06-0286	SHEET NO 1 OF	4	HOLE NO. <b>B-6003</b>
OGGED	<b>?</b>	B. Mabie			MAKE AND	MODE	L	25.0 E 6194	ETER		ERIAL NUMB	2/20/ ER	2007 TOTAL DEPT
ROUNI	EL.	White-MACTEC  DEPTH/EL. GROUND WAT  ▼ /  ▼ /	TER SITI	E:		CME-			nches		331145		179.4
229								Vogtle Elect	ric Gen	erating Pi	ant - wa	ynesbo	oro, GA
SAMP. TYPE AND NO.	0 +	N-VALUE (SPT) WATER CONTENT % ATT. LIMITS % FINES %	1st 6" - 2 2nd 6" O 3rd 6" - 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory t of sample b	lassification adia		TION	CHARA DRILLI	R LEVELS, ACTER OF NG AND ACTORY
SS 1 SS 2		20 40 60 80	1-1-1 2-1-1	17 14	229.8	- - -		SAND, with s (10YR 5/4), dr nonplastic, -He SAA except st				Top of Group a 0.0 feet	Barnwell at a depth of
$\frac{SS}{3}$			2-1-2	10		5—		SAA					
SS 4	_		3-3-4	11		-		SAA except ye loose	ellowish re	ed (5YR 5/6).	moist,		
SS 5	^		5-6-6	12	219.3_	10-		SAA except re	d (2.5YR	4/6), mediun	dense		
SS 6		<b>A</b>	6-9-10	14	216.8_	-		SAND, silty (S	SM) - Red , fine grain	(2.5YR 4/6), ned, nonplast	moist, ic, -HCL		
ss 7	4	<b>\</b>	6-7-9	14		- 15		CLAY, silty, s 4/6), moist, ve	sandy (CL ry stiff, lo	-ML)- Red ( w plasticity,	2.5YR -HCL	Installa	d 3" steel
SS 8	7 <b>A</b>		4-7-6	14	212.8_	20-		SAND, silty (S moist, medium -HCL	SM)- Yello dense, fir	owish red (5) ne grained, no	YR 5/8), onplastic,	casing t	to a depth of
SS 9	•		4-5-6	12	202.8_	25—		SAA except by	rownish ye ow plastici	ellow (10YR ty	6/6), wet,		
SS 10	•		4-6-6	12	197.8	30-		SAND, with s (10YR 6/6), w nonplastic, -He	et, mediun	I)- Brownish n dense, fine	yellow grained,		
SS 11	•		1-3-4	18	19716_	35—		CLAY, silty ((10YR 6/6), w contains fine g	CL-ML)- et, mediun rained SA	Brownish yen stiff, low p	llow lasticity, HCL		
SS 12	7	<b>A</b>	24-11-25	18		40-		SAA except licontains fine s	ght gray (2 hell hash,	2.5Y 7/2), har +HCL	rd,		
SS 13	7	<b>A</b>	7-9-18	18		45—		SAA except li moist, very sti	ght browni ff	sh gray (2.5°	Y 6/2),		
ss		<b>A</b>	5-11-10	18		- -		SAA except gi	eenish gra	y (GLEY1 5	/10GY)		
		: A. TAYLOR : P. DEPREE	1		SITE	V	ogtle	Units 3 & 4 Co		et		HOLE NO	-6003



GE	ΞΟ	OTECHNICAL LO		ojec ogtl		3 & 4 (	OL Project   JOB NO.   SHEET NO.   HOLE   COL Project   6141-06-0286   2 of 4   B-0	NO. <b>6003</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -x 2nd 6" O 3rd 6" 1x	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)  NOTES ON: WATER LEV CHARACTEI DRILLING AI LABORATOR TESTING	'ELS, R OF ND
SS 15	$\boxtimes$		5-50/3"	15	173.0	55—	SAA except light gray (2.5Y 7/2), hard, contains shell fragments	
SS 16	$\times$		26-50/3"	6	172.8_	60-	CLAY, silty with sand (CL-ML)- Pale yellow (5Y 8/3), wet, hard, low plasticity, contains shell hash, +HCL	
SS 17	X	<b>A</b>	11-12-13	16	167.8_	65-	CLAY, silty (CL-ML)- Pale yellow (2.5Y 8/2), wet, very stiff, low plasticity, contains shell hash, +HCL	
SS 18	X		6-50/5"	7	162.8_ 157.8	70-	SAND, silty (SM)- Pale yellow (2.5Y 8/2), wet, very dense, nonplastic, contains shell fragments, +HCL	
SS 19	X	<b>A</b>	4-6-6	18		75-	CLAY, silty (CL-ML)- Pale yellow (2.5Y 8/2), moist, stiff, low plasticity, contains shell fragments, +HCL	
SS 20	X	<b>A</b>	11-16-28	18	152.8_	80-	SAND, with silt (SP-SM)- Light gray (2.5Y 7/2), wet, dense, nonplastic, contains shell hash, +HCL	
SS 21	X	<b>A</b>	5-18-20	16	147.8_	85-	SAND, silty, clayey (SC-SM)- Light gray (2.5Y 7/8), wet, dense, low plasticity, contains shell hash, +HCL	
SS 22	X	<b>A</b>	8-10-11	18	125.0	90-	SAA except medium dense	
SS 23	X	<b>A</b>	6-7-11	18	137.8_	95-	SAND, with silt (SP-SM)- Very pale brown (10YR 7/3), wet, medium dense, nonplastic, contains shell fragments, +HCL	
SS 24	X	<b>A</b>	6-7-9	18		100-	SAA Water level d end of 2/19/0	lepth at
SS 25	X	<b>A</b>	8-14-19	16		105-	SAA except light gray (10YR 7/2), dense  SAA except light gray (10YR 7/2), dense  Water level d beginning of = 32.45 feet	lepth at
					SITE	Vog	tle Units 3 & 4 COL Project Final Log  B-60	03



		OTECHNICAL LO		OJEC		2 8. 1		JOB NO. SHEET NO.  OL Project 6141-06-0286 3 or	
. PE	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -2 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>A</b>	18-31-38	10		110-		SAA except very pale brown (10YR 7/3), very dense, fine to medium grained	
SS 27	X	<b>A</b>	25-29-31	9		115—		SAA	
SS 28	X	<b>A</b>	8-11-18	15	107.8_	120-		SAA	
SS 29	W		50/3"	0	107.8_	125—		NO RECOVERY	
SS 30	$\boxtimes$		13-50/2"	7	102.8_	130-		SILT, with sand (ML)- Light greenish gray (GLEY1 7/10GY), wet, hard, nonplastic, contains shell hash, +HCL	
SS 31	X	•	12-50/5"	7	93.0_	135—		SAA	
SS 32	X	<b>A</b>	16-19-47	18	75.6_	140-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/5GY), moist, hard, low plasticity, contains minor shell fragments, +HCL	Top of Blue Bluff Marl at a depth of 136.75 feet
SS 33	×		50/5"	4		145—		SAA	
SS 34	W		50/3"	2		150-		SAA	
SS 35	X		16-32-50/3"	18		155—		SAA except dark greenish gray (GLEY1 4/10GY)	
SS 36	X		18-50/3"	8		160-		SAA	
SS	X	<b>A</b>	11-16-38	18	SITE	- - V		SAA e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-6003</b>



		TECHNICAL LOS	PRO	OJE	CT				JOB NO.	SHEET NO	).	HOLE NO.
GE	<b>:</b> C	TECHNICAL LO	V	ogtl	le Units	3 & 4	C	OL Project	6141-06-0286	<b>4</b> OF	4	B-6003
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" G	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory t of sample b	DN AND CLASSIFICAT classification adjusted based on cesting data and/or re-examination by field geologist/engineer )	ION	WATE CHAF DRILI	ES ON: ER LEVELS, RACTER OF LING AND DRATORY ING
31						165-						
SS 38	×		50/5"	5		170—		SAA except gr contains ceme	reenish gray (GLEY1 6/ ntation	/5GY),		
SS 39	X	<b>A</b>	11-21-18	18		175—		SAA except co	ontains no cementation			
SS 40	$\boxtimes$	,	36-50/5"	16	50.3_	-		SAA Boring termina	ated at 179.42 feet		Water end o 82.74	e level depth at f 2/20/07 = feet
					SITE	V 469 of		e Units 3 & 4 Co Final Log	OL Project		HOLE	NO. <b>B-6003</b>



GF	=(	OTECHNICAL LOC	<u> </u>	OJEC		2.0.4	COLD		JOB NO.	26.0206	SHEET NO		HOLE NO.
LOGG			, ,		e Units	3 & 4	COLP	roject	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	B-6004 ETED
		B. Mabie				N 1143	3718.2	E 6194	173.3	2/22/200	)7	2/23/	
DRILL	ER		D	RILL	MAKE AND			HOLE DIAM		HAMMER SE		ER	TOTAL DEPTH
GROU	NID	White-MACTEC DEL. DEPTH/EL. GROUND WATE	R SITE	=-	<u> </u>	ME-5	5	3 1	nches		331145		150.0
		1.6 $\mathbf{\bar{Y}}$ /	511				Vog	tle Elect	ric Gene	erating Pla	ant - Wa	vnesbo	oro, GA
		- /								- 8		<u> </u>	
置.	ļ.,	▲ N-VALUE (SPT)	N-COUNT	RECOVERY (in)	Ζ.	ㅂ	ဂ္ဂ					NOTES	ON:
SAMP. TYPE AND NO.	1PLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ERY	ELEVATION IN FEET	DEPTH IN	GRAPHICS ad	SCRIPTIC	ON AND CI	LASSIFICAT	ION		R LEVELS, CTER OF
AND	SAMPLE	+ ATT. LIMITS %	3 2 5	8	LEV IN F	EPT!	ira Ira	( * = field c	elassification adju- esting data and/or y field geologist/	sted based on	1014	DRILLI	NG AND ATORY
S)		☐ FINES %		\ \   	Ш	B		of sample b	y field geologist/	engineer)		TESTIN	
SS	1	20 40 60 80	3-2-4	12	231.6	1.	HI SAI	VD with c	ilt (SD_SM	D- Reddich v	ellow	Top of	Barnwell
1 1	$\bigvee$	<b>A</b>	3-3-3	10	230.1_		(7.5	YR 6/6), d	lry, loose, f	D- Reddish y ine grained,	cilow /	Group a	it a depth of
SS 2 SS 3	Å				228.3_		SA	ND, silty (S	SM)- Red (	(10R 4/4), da	ımp,	0.0 1001	
SS 3	X		3-3-4	10		5	SA1 4/4	ND, with s	ilty clay (S	SP-SC)- Red rained, non to	∏0R <sup>—</sup>		
SS		<b>A</b>	3-4-4	11			plas SA	sticity, -HC	L gr	umeu, non te	710 11		
4	Å				223.6_				. — — — -				
SS 5	X		5-6-6	12			SAI	ND, with s	ilt (SP-SM	l)- Red (10Y) edium graine	R 4/4),		
			10-6-7	9		10	non	plastic, -H	ČL CL	caram grame	u,		
SS 6	X		10-0-7	9		-	SA	A					
SS	$\bigvee$	_	3-5-6	8			SA	A					
7	Λ					15-							
						1							
00		7	5-7-10	8		-	GA	<b>A</b>					
SS 8	X		3 / 10			20	SA	A					
						-							
						]:							
SS 9	X		4-5-7	10		25	SA	A					
					204.8	237							
					204.0_								
SS	X		4-5-6	12			SAI	ND, silty (S	SM)- Yello	owish brown plastic, conta	(10YR		
10		<u> </u>			100.5	30	frag	medium ( ments, +H	CL nonj	piastic, conta	ms snen		
					199.8_								
SS		7	3-3-4	11			CL	AY, silty v	vith sand (	CL-ML)- Li	ght		
11	Δ					35-	brov low	wnish gray plasticity,	(10YR 6/2 contains fi	CL-ML)- Li 2), moist, med ne grained S ss, -HCL	dium stiff,   AND		
							lens	ses and she	ll fragment	s, -HCL			
00			2-3-3	18				1		. CAND 1			
SS 12	X		2-3-3	10		40-	SA	A except do	oes not con	tain SAND l	enses		
					189.8_								
SS 13	X		2-2-2	18		15	SAl grav	<b>ND, silty, o</b> y (10YR 6/	clayey (SC 2), wet. ve	-SM)- Light ry loose, low fragments, +l	bownish		
13					184.8	45	plas	sticity, cont	tains shell i	fragments, +I	HCL		
					107.0_								
SS	X		5-7-17	18			ÇĽ	AY, silty (	CL-ML)-	Light browni	sh gray		
PREP	ARE	N :			SITE	Vo	gtle Uni	ts 3 & 4 C	OL Projec	<u>t</u>	outliy,	HOLE NO	
REVIE	WE	ED BY: P. DEPREE				470 of 7		nal Log	5			B	<u>-6004</u>
						5 51 7							



CENTECHNICAL LOC	JECT gtle	Units :	3 & 4	CO	JOB NO. SHEET NO.  DL Project 6141-06-0286 2 OF	
SAMP TYPE AND NO.  O MATER CONTENT %  Ist 6" Sud 6"	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14					contains shell fragments, +HCL	
SS 15 A 3-4-4	18		55—		SAA except medium stiff	
SS 16 2-3-3	18	1.60.0	60-		SAA	
SS N 5-7-6	9	169.8_	65-	200	SAND, with silt (SP-SM)- Very pale bown (10YR 7/3), wet, medium dense, nonplastic, contains shell fragments, +HCL	
SS 18 9-8-9	11	160.3_	70-		SAA 	
SS 19 19-8-10	18	154.8_	75—		CLAY, silty with sand (CL-ML)- Very pale brown (10YR 7/2), wet, very stiff, low plasticity, contains shell fragments, +HCL	
SS 20 6-8-12	18	149.8_	80-		SAND, silty (SM) - Very pale brown (10YR 7/2), wet, medium dense, fine grained, nonplastic, contains shell fragment and CLAY traces, +HCL	
SS 21 17-43-12	15		85 —		SAND, with silt (SP-SM)- Pale yellow (2.5Y 8/2), wet, very dense, fine to medium grained, nonplastic, contains shell fragment and cemented SAND grains, +HCL	
SS 22 8-10-26	18	139.8_	90-		SAA except dense	
SS 23 13-35-18	18	134.8_	95—		CLAY, silty with sand (CL-ML)- Very pale brown (10YR 8/2), wet, hard, low plasticity, contains shell fragments, +HCL	
SS Z4	18	129.8_	100-		SAND, silty, clavey (SC-SM)- Very pale brown (10YR 8/2), wet, very dense, non to low plasticity, contains shell fragments, +HCL	
SS Z 14-10-10	14		105		SAND, with silt (SP-SM)- Very pale brown (10YR 8/2), wet, medium dense, fine to medium grained, nonplastic, contains shell fragments, +HCL	Installed 3" steel casing to a depth of
		SITE	V <sub>0</sub>	_	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-6004</b>



GE		TECHNICAL LO	<u> </u>	OJE(		2 & 1	C	JOB NO.   SHEET NO.   SHEET NO.   3 ON	
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	20 40 00 30	8-22-28	10		- - 110-		SAA except dense	105.0 feet
SS 27	X	<b>A</b>	18-24-26	12		- - 115—		SAA	Water level depth at end of 2/22/07 = 47.82 feet
SS 28	X	<b>A</b>	8-12-15	8	109.8	120-		SAA except medium dense	47.82 feet Water level depth at beginning of 2/23/07 = 53.49 feet
SS 29	X	<b>A</b>	8-14-18	16	103.0_	- - 125—		SAND, silty (SM)- Very pale brown (10YR 8/2), wet, dense, fine grained, nonplastic, contains shell fragments, +HCL	
SS 30	×	•	50/2"	0.125	99.8_	130-		SAA except cemented	
SS 31	X	•	18-16-50/4"	10	94.8	135—		SILT, with sand (ML)- Greenish gray (GLEY1 6/10GY), wet, hard, nonplastic, contains shell fragments and CLAY traces, +HCL	
SS 32	X	<b>A</b>	16-20-32	18		140-		CLAY, silty (CL-ML)- Dark greenish gray (GLEY1 4/10GY) moist, hard, low plasticity, contains shell fragments, +HCL	Top of Blue Bluff Marl at a depth of 136.75 feet
SS 33	×	4	50/5"	7		145-		SAA	
SS 34	X	<b>A</b>	9-16-27	18	81.6_	150-		SAA  Boring terminated at 150.0 feet	Water level depth at end of 2/23/07 = 10.48 feet
					SITE	V 472 of	_	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-6004</b>



GEO	TECHNICAL LOG		DJEC		2 0 4	00	OF David	JOB NO.	V 0207	SHEET NO		HOLE NO.
LOGGED B				e Units . Dinates	3 & 4	C	OL Project	6141-0	<b>6-0286</b> BEGUN	<b>1</b> OF	COMPL	B-6005 ETED
	D. Atkinson				N 114	<b>37</b> 1	18.0 E 6198	73.8	2/26/200	7	2/27/	
DRILLER		DF	RILL	MAKE AND			HOLE DIAM		HAMMER SE		ER	TOTAL DEPTH
GROUND E	White-MACTEC  EL. DEPTH/EL. GROUND WATER	SITE		<u>C</u>	ME-5	55_	3 I	nches		331145		178.8
242.0	$\nabla$ /	.					Vogtle Elect	ric Gene	rating Pla	ant - Wa	ynesbo	oro, GA
SAMP. TYPE AND NO. SAMPLE	l l	COUNT	RECOVERY (in)	N O F	F	SS					NOTES	
AMP. TY AND NO SAMPLE	O WATER CONTENT %	2nd 6" 3rd 6"	ÆR	ATI FEE:	보	Ĭ.	DESCRIPTIO	N AND CL	ASSIFICAT	ION	CHARA	R LEVELS, CTER OF
AMF SAI	+ ATT. LIMITS %		8	ELEVATION IN FEET	DEPTH IN	GRAPHICS	( * = field cl laboratory to of sample by	assification adjust esting data and/or field geologist/o	re-examination		LABOR	NG AND ATORY
σ	☐ FINES %		2				or sumpre o	, nera georogist c	ingineer )		TESTIN	IG
SS V	20 40 60 80	1-2-3	13	242.6	-		SAND, with si damp, loose, fi	ilt (SP-SM	)- Red (2.5Y	R 4/8),	Top of l	Barnwell
l 1 🛚	<b>A</b>	3-3-4	12		]		damp, loose, fi SAA	ne grained	,	,,	Group a 0.0 feet	t a depth of
SS X SS X	<b>A</b>	2-3-4	13		=		SAA except re	d (2 5VR 5	(/ <b>Q</b> )			
3					5		57111 except to	u (2.5 i K 2	70)			
SS 4	<b>A</b>	3-3-5	12		- <u> </u> -		SAA					
	<b>A</b>	2-3-4	14		10-		SAA except str fine to medium	rong brown	1 (7.5YR 5/8)	), moist,		
	<b>A</b>	5-4-5	10		10		SAA except ye					
	<b>A</b>	4-4-7	11		-		SAA except re	ddish vella	w (5VR 6/8)	medium	Installe	d 3" steel
7					15		dense, fine gra	ined	W (31K 0/8)	, mearum	casing t	o a depth of
					- - -:							
98 17	<b>A</b>	4-6-8	8		=		SAA except re	d (2 5VR 5	5/6)			
					20		Бин схеерите	u (2.51 K )	70)			
				220.6_	1	Щ						
ss 🗸	<b>A</b>	5-7-8	9		].		SAND (SP) - H	eddish vel	low (7.5VR	6/8)		
9 🖺					25		SAND (SP) - F moist, medium	dense, fin	e grained	0/0),		
				215.6_	‡	- 111						
ss 🗸	<b>A</b>	5-6-6	8		-		CAND with si	H (CD CM	Vallow (1)	OVD		
10					30-		SAND, with si 7/6), moist, me	edium dens	e, fine graine	ed		
				210.6_	1							
		5-7-9	12		+		CAND	lov (CD CC	") D	wallow		
11		3-1-7	12		35		SAND, with c (10YR 6/8), m medium graine	oist, mediu	m dense, fin	e to		
				205.6_	1							
$\begin{bmatrix} SS \\ 12 \end{bmatrix}$		1-2-3	18		40-		CLAY, with s 7/4), moist, me	and (CL)- edium stiff,	Pale yellow medium to l	(2.5Y nigh		
				200.6	-		plasticity, very	rine grain	eu SAND, -F	ICL		
					1							
$\begin{bmatrix} SS \\ 13 \end{bmatrix}$		2-2-2	18		45		<b>SAND, clayey</b> wet, loose, fine plasticity, -HC	(SC)- Pale grained, l	e yellow (2.5 ow to mediu	Y 7/4), m		
				195.6			plasticity, -HC	L				
				175.0_	- <del>-</del>							
ss	•	6-9-9	2				SAND, silty (S wet, medium d	ense, fine	grained, noni	olastic,		
	ED BY: A. TAYLOR			SITE	Ve	ogtl	e Units 3 & 4 CO Final Log	OL Projec	t		HOLE NO	-6005
KEVIEWEL	D BY: P. DEPREE				473 of	<del>724</del>		<u>,                                    </u>			D.	-0003



GE	OTECHNICAL LO		OJE(		3 & 4	C	JOB NO. SHEET NO. OL Project 6141-06-0286 2 O	
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 60 80			191.1_	-		-HCL	
SS 15	<b>A</b>	7-6-18	18	195.6	- - 55—		SAND, clayey (SC)- Light greenish gray (GLEY1 8/5GY), wet, medium dense, fine grained, medium plasticity, contains trace shell fragments, +HCL	
SS 16	<b>A</b>	1-3-6	18	185.6_	60-		CLAY (CH) - Light greenish gray (GLEY1 8/5GY), wet, stiff, high plasticity, +HCL	
SS 17	<b>A</b>	6-7-9	18	180.6_	- - 65—		CLAY, sandy (CH)- Pale yellow (5Y 8/3), wet, very stiff, medium to high plasticity, +HCL	
SS 18	× .	50/4"	4	175.6_	70-		SAND, silty (SM)- Pale yellow (5Y 8/3), wet, very dense, fine grained, contains shell fragments	
SS 19		7-9-12	18	170.6_	- - - 75—		CLAY, with sand (CH)- Pale yellow (2.5Y 7/4), wet, very stiff, high plasticity, +HCL	
SS 20	<b>A</b>	9-13-15	18		- - 80—		SAA except pale yellow (2.5Y 7/3), medium plasticity, contains shell fragments	
SS 21	<b>A</b>	14-15-18	16	160.6_	85—		SAND (SP) - Pale yellow (2.5Y 8/2), wet, dense, fine grained, -HCL	_
SS 22	•	4-5-8	18	155.6_	- - 90—		SAND, with clay (SP-SC)- Pale yellow (2.5Y 8/3), wet, medium dense, fine to medium grained, low to medium plasticity, +HCL	Water level depth at end of 2/26/07 = Top
SS 23		13-8-10	18	150.6_	- - 95—		SAND, clayey (SC)- Light greenish gray (GLEY1 8/10Y), wet, medium dense, fine to medium grained, low to medium plasticity, contains shell fragments, +HCL	of casing Water level depth at beginning of 2/27/07 = 33.4 feet
SS 24	<b>A</b>	6-9-10	18		100-		SAA except medium to coarse grained, low plasticity, contains no shells	
SS 25	<b>A</b>	16-16-20	18		- - 105—		SAA except dense, fine to medium grained, contains shell fragments	
				SITE	V 474 of	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-6005</b>



GI	EC	OTECHNICAL LO		OJEC ogtl		3 & 4	C(	JOB NO. SHEET N OL Project 6141-06-0286 3	10. DF <b>4</b>	HOLE NO. <b>B-6005</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" 0 3rd 6" ±	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	WAT CHA DRIL LAB	ES ON: ER LEVELS, RACTER OF LING AND ORATORY TING
SS 26	X	,	13-50/4"	8		110-		SAA except pale yellow (2.5Y 8/4), very dense nonplastic to low plasticity, contains no shells	,	
SS 27	X	<b>A</b>	10-12-12	16	125.6_	115-		SAA except yellow (2.5Y 8/6), medium dense, fine grained, low to medium plasticity		
SS 28	X	<b>A</b>	8-9-21	18	123.0_	120-		SAND, with clay (SP-SC)- Yellow (2.5Y 8/6), wet, dense, fine grained, nonplastic, +HCL		
SS 29	X	<b>A</b>	11-8-11	18	115 6	125-		SAA pale yellow (2.5Y 8/4), medium dense, nonplastic to low plasticity		
SS 30	X	<b>A</b>	5-11-16	18	115.6_ 110.6_	130-		SAND, with silt (SP-SM)- Pale yellow (2.5Y 8/2), wet, medium dense, fine to medium grained, +HCL		
SS 31	X	<b>A</b>	8-16-11	18	110.6_	135—		SAND, clayey (SC)- Pale yellow (2.5Y 8/4), wet, medium dense, fine to medium grained, medium plasticity, +HCL		
SS 32	X	<b>A</b>	20-19-20	18	100.6	140—		SAA except pale yellow (2.5Y 8/3), dense, low plasticity, contain shell fragments		
SS 33	X	<b>A</b>	9-35-22	12	100.0_	- - 145—		SAND, with clay (SP-SC)- Pale yellow (2.5Y 8/2), wet, very dense, fine to medium grained, contains shell fragments		
SS 34	X	<u> </u>	15-26-36	18	95.1_	- - 150—		CLAY (CH) - Dark greenish gray (GLEY1 4/10GY), wet, hard, high plasticity, +HCL	Marl	of Blue Bluff at a depth of 5 feet
SS 35	X	<b>A</b>	20-20-21	18		- - 155—		SAA		
SS 36	X	<b>A</b>	10-20-38	18		- - 160—		SAA except dark greenish gray (GLEY1 6/10GY), contains trace shell fragments		
SS	X		20-25-50/5"	18	SITE	- - -		SAA except dark greenish gray (GLEY1	HOLE	. NO
					JIIL	V	ogtl	e Units 3 & 4 COL Project Final Log		B-6005



GE	EC	TECHNICAL LO	$\frown$	OJE(		3 & 4	C	JOB NO. SHEET N  OL Project 6141-06-0286 4 c	0. F <b>4</b>	HOLE NO. <b>B-6005</b>
SAMP. TYPE AND NO.	SAMPLE	<ul><li>○ WATER CONTENT %</li><li>+ ATT. LIMITS %</li><li>□ FINES %</li></ul>	1st 6" -z 2nd 6" 00 3rd 6" 12	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	WA CH. DR LAE	TES ON: TER LEVELS, ARACTER OF LLING AND BORATORY STING
37	×	20 40 60 80			75.6_	165-		5/10GY), contains no shells		
SS 38	×		50/3"	2	70.6	170—	- - -	SILT (ML) - Greenish gray (GLEY1 5/5GY), wet, hard, nonplastic, contains cementation, +HCL		
SS 39	X		16-18-50/3"	18	70.6_	- - 175—		CLAY, silty (CL-ML)- Greenish gray (GLEY1 6/5GY), wet, hard, high plasticity, +HCL		
SS 40	×		50/3"	3	65.6_ 63.8_	-		SILT (ML) - Greenish gray (GLEY1 5/10GY), wet, hard, nonplastic, contains cementation, +HCL Boring terminated at 178.75 feet		
					SITE	1/2	ogtl	e Units 3 & 4 COL Project	HOI	E NO.
						476 of		Final Log		B-6005



GE	CTECHNICAL LOC	ROJEC		3 & A	1 (((	OL Project	JOB NO.	06-0286	SHEET NO		DLE NO. <b>B-6006</b>
LOGGE			DINATES	3 & 4		)L i roject	0141-0	BEGUN	<b>1</b> OF	COMPLE	
DRILLEI	S. Woodham	DDILL	MAKE AND			69.8 E 6203		3/13/200 HAMMER SE		3/13/20	007 TOTAL DEPTH
DRILLEI	White-MACTEC	DRILL		ME-			nches		331145	EK	50.0
GROUN	$\nabla$ /	ITE:						4' DI	4 <b>X</b> V		- CA
24	<b>48.2</b>					Vogtle Elect	ric Gene	erating Pi	ant - wa	ynesbor	0, GA
SAMP. TYPE AND NO.	MIN-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	RECOVERY (in)	ELEVATION IN FEET OF 248.2	DEPTH IN FT	GRAPHICS	DESCRIPTIC (*= field cl laboratory te of sample by	ON AND CL lassification adjus esting data and/or y field geologist/e	ted based on	ION	NOTES O WATER L CHARAC DRILLING LABORA TESTING	LEVELS, TER OF G AND TORY
SS	20 40 00 80	8	246.8		$\boxtimes$	SAND, clayey 5/6), damp, loc	(SC)- Yel	lowish red (5	SYR .	Top of Fil	ll at a depth
1 SS 2 SS	7-8-9	14	_,,,,,	-		SAND, silty (S	SM)- Redd edium dens	ish brown (5 e, fine to coa	YR	01 0.0 100	•
3 2	7-6-5	16		5-		grained SAA SAA except lig contains CLAS	ght yellowi	sh brown (2.	5Y 6/4),		
SS 4	6-11-1	3   14	240.2	-		SAA except str grained	rong brown	n (7.5YR 5/8	), fine		
SS 5	5-6-8	15		10-		<b>SAND, silty, c</b> (5YR 4/6), dan	layey (SC- np, mediun	SM)- Yellov n dense, fine	wish red grained		
SS 6	3-5-7	14		-	$\bigotimes$	SAA					
SS 7	3-3-2	8		15-		SAA except fin	ne and coar	rse grained			
SS 8	1-4-8	10	226.2	20-		SAA except re very coarse gra	ddish brow iined	rn (2.5YR 5/-	4), fine to		
SS S	5-9-14	13	221.2_	25-		SAND, silty (S 6/6), damp, me contains GRAV	SM) - Brow edium dens VEL layer	rnish yellow e, fine graind	(10YR ed,		
SS 10 2	3-5-6	15		30-		SAND, silty, c 4/8), damp, me	layey (SC- edium dens	SM)- Red (2 e, fine grains	2.5YR ed		a depth of rculation at
SS N	6-9-10	16	216.2_	35-	<u> </u>	SAND, silty (S	SM)- Red (	2.5YR 5/6), ed	damp,	•	
SS N	3-4-6	18	211.2_	40-		SAND, silty, c 5/8), damp, me grained	layey (SC-	SM)- Red (2 e, fine to me	2.5YR dium		
SS 13	7-10-1	1 15	206.2_	45 –	<u>rall</u>	SAND, silty (S medium dense seams	SM)- Yello, fine grain	ow (2.5Y 7/6) ed, contains	o, damp, CLAY		
SS	2-4-6	12	198.2	- - -		CLAY, silty ((	C <b>L-ML)</b> - I	Brownish yel	llow m		
	RED BY: A. TAYLOR  NED BY: P. DEPREE		SITE	V	ogtl	e Units 3 & 4 CO Final Log	OL Project			HOLE NO.	6006
	··		l	477 o	<del>f 724</del>		•				



GEO	OTECHNICAL L	$oldsymbol{OG} egin{pmatrix} PROJ \ \mathbf{V_{0}g} \end{bmatrix}$		3 & 4	CO	JOB NO.  OL Project 6141-06-0286	SHEET NO	<b>I</b>	HOLE NO. <b>B-6006</b>
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	N-COUNT		DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICA  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)  plasticity, -HCL Boring terminated at 50.0 feet		NOTE: WATE CHAR DRILL	S ON: R LEVELS, ACTER OF ING AND RATORY
			SITE	V:		e Units 3 & 4 COL Project Final Log		HOLE N	o. <b>3-6006</b>



GE	ΞC	TECHNICAL LO	C	OJEC		201		OI Descionat	JOB NO.	0206	SHEET NO		HOLE NO.
LOGG			•		DINATES	3 & 4	C	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	B-6007 ETED
		B. Sharp				N 114	1273	30.7 E 6203	301.8	3/1/200	7	3/6/2	2007
DRILL	ER	•	D	RILL	MAKE AND			HOLE DIAM		HAMMER SE		ÉR	TOTAL DEPTH
GROU	ND	Rosser-MACTEC  EL. DEPTH/EL. GROUND WAT	ER SITI		C	CME-	75	4 1	nches		219907		50.0
	22.	$\nabla$ /	EK SIII	⊑.				Vogtle Elect	ric Gene	erating Pla	ant - Wa	vnesbo	oro, GA
		- '						3		<u> </u>		<u> </u>	
置.		▲ N-VALUE (SPT)	N-COUNT	RECOVERY (in)	Ζ.	ᇤ	က္					NOTES	ON:
≥8	PLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ER/	ATIC EET	르	을	DESCRIPTION		ASSIEICAT	ION		R LEVELS, CTER OF
SAMP. TYPE AND NO.	SAMPLE	+ ATT. LIMITS %	3 2 2	8	ELEVATION IN FEET	DEPTH IN	GRAPHICS	( * = field c	elassification adju- esting data and/or oy field geologist/o	sted based on		DRILLII	NG AND ATORY
8		☐ FINES %		R	Ш	ä	0	of sample b	y field geologist/	engineer)		TESTIN	
CC	$\downarrow \downarrow$	20 40 60 80	5-8-6	11	222.3	_		CDAVEL wi	th sand (C	(D) Doult out	vviah	Top of	Cill at a double
SS 1	A		7-4-7	5.5	220.8_	-	٠	GRAVEL, wi	4/2), moist	, medium de	nse	of 0.0	Fill at a depth
SS 2 SS	Д		, , , ,	0.5		-		SAND (SP) - red (10R 4/6),	moist, med	lium dense, f	ine to	Group a	Barnwell at a depth of
SS 3	X		24-11-15	4		5-		medium graine SAA except regrained	eddish yello	ow (7.5YR 6/	(8), fine	1.5 1000	
SS			8-6-5	15		3-		SAA except ye	allowich ra	d (5VD 5/9)			
4	А				214.3_	-		SAA except y		u (31K 3/8)			
SS	M	<b>A</b>	6-10-9	14		-		SAND, clayey	(SC) - Yel	lowish red (5	SYR		
5				4.0		10-		SAND, clayey 5/8) and strong medium dense	e, fine to me	edium graine	d d	Water l	evel depth at 8/2/07=
SS 6	M		16-14-14	18		-		SAA except m brown (7.5YR	nottled red ( . 5/8), and b	(2.5YR 4/8), brownish yell	strong ow	Ground	surface
SS	$\mathbb{H}$	<b>Å</b>	4-6-14	15		-		(10YK6/8)					
7	Å					15-		SAA except co gray (10YR 7/	1) CLAY s	seams	i) to light	Water le	evel denth at
						-						end of 3 Ground	evel depth at 8/5/07= surface
			5-9-11			-		g		1 (5) (0)		Water l	evel depth at
SS 8	X		3-9-11	11	202.7_	20-		SAA except yo to coarse grain	ied		А	beginni 1.0 feet	100  ng of  376/07 = 100
						-		SAND (SP) - I moist, mediun	Reddish ye 1 dense, me	llow (7.5YR edium to coar	6/8), se		
						-		grained					
SS 9	X	<b>A</b>	6-9-8	11				SAA except re contains black	eddish yello	ow (7.5YR 6/	(6),		
	Ħ					25-			mungunes	• • • • • • • • • • • • • • • • • • • •			
					195.3_	-							
SS	M	<b>A</b>	4-8-8	18	192.8_	-		CLAY, silty (	CL-ML)-	Yellow (2.5)	7/6),		
10	H				-	30-		CLAY, silty ( moist, very sti contains thin r	II, low to n eddish yell	nedium plasti ow (2.5YR 6	icity, /		
					190.3_	-		SAND lenses SAND, silty (\$6/8), moist, m	SM)- Brow	nish yellow	(10YR		
SS	$\mathbb{H}$	<b>A</b>	3-4-5	18		-		SILT, sandy (					
11	Å					35-	$\  \ $	moist, stiff, no grained SANE	inplastic to	low plasticit	y, fine		
						-		0 =======					
		<b>A</b>	2.4.5	10		-	$\left  \left  \right  \right $	G A A	1 (2 577)	-(0) 1 1	., ,		
SS 12	X		3-4-5	18		40-	]	SAA except re (5YR 5/8)	ed (2.5 Y R 3	5/8) and yello	owish red		
						-	$\left  \left  \right  \right $						
						-							
SS 13	X	<b>A</b>	4-5-6	18		-	$\left  \left  \right  \right $	SAA except of shell fragment	live yellow	(2.5Y 6/6), o	contains		
13	П					45-		Januari II aginioni	-, 1101				
					175.3_	-	₩						
SS	$\forall$	<b>A</b>	3-4-27	18	173.1_	-	Щ	SILT (ML) - ]	Pale yellow	(5Y 7/3), m	oist,		
PREP	V V ARE	D BY: A. TAYLOR		Ш	SITE	V	ogtl'	\stiff, lòw plast e Units 3 & 4 C	OL Projec			HOLE NO	
REVIE	WE	D BY: P. DEPREE				4 <del>7</del> 9 of	<del>79/</del>	Final Log	3			<u>B</u>	<u>-6007</u>
						7700	, 47						



<b>GEO</b>	TECHNICAL LO		OJE(		3 & 4	l C(	JOB NO. SHEET NO <b>2</b> OF	
AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z- 2nd 6" OO 3rd 6" _z		ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
4	20 40 60 80			172.3			SILT, sandy (ML)- Pale yellow (5Y 8/3), moist, hard, contains cemented shell fragments + HCL Boring terminated at 50.0 feet	
			•	SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-6007</b>



Vogite Clifts 3 & 4 COL 110ject   0141-00-0260   1 OF 3   B-0008	GE	ΞΟ	OTECHNICAL LO	<u> </u>	OJEC		201	COL	Duning	JOB NO.	0.000	SHEET NO		HOLE NO.
PRILE   PRIL				V (			3 & 4	COI	2 Project	0141-0		l OF		
White-MACTEC   CME-55   3 Inches   331145   150.0											3/6/200	7		
Vogile Electric Generating Plant - Waynesboro, GA	DRILL	ER		D	RILL								ER	TOTAL DEPTH
A N-VALUE (SPT)	GROU	ND		ER SITI	=-	C	CME-5	55	31	nches		331145		150.0
A N-VALUE (SPT)					-			V	ogtle Elect	ric Gene	erating Pla	ant - Wa	ynesbo	oro, GA
SAND, with silt (SP-SM) - Red (10R 5/8), with sil											-		-	
SAND, with silt (SP-SM) - Red (10R 5/8), with sil	뮖.		▲ N-VALUE (SPT)	N-COUNT	(in)	Z_	F	တ္သ						
SAND, with silt (SP-SM) - Red (10R 5/8), with sil	 N	MPLE	O WATER CONTENT %	st 6" ind 6' rd 6"	(ER)	ATI(	Z I	Ħ.	DESCRIPTION	ON AND CI	_ASSIFICAT	ION		
SAND, with silt (SP-SM) - Red (10R 5/8), with sil	AMP AND	SAI	+ ATT. LIMITS %	3 2	8	LEV IN F	EPT	3RAI	( * = field c	lassification adju	sted based on			
SS	Š		☐ FINES %		쀭	Ш	□		of sample b	y field geologist/	engineer)			
SS	SS	$\mathbb{H}$	20 40 60 80	2-5-9	10	240.1		. HII - :	SAND, with s	ilt (SP-SM	D- Red (10R	5/8)	Top of	Barnwell
SAND, with clay (SP-SC): Bluish gray (G1EY2 65B), minst, medium dense, fine grained (G1EY2 65B), minst, medium dense,	1	$\mathbb{A}$	<b>A</b>	4-7-9	11		- -:		moist, medium	dense, fin	e grained SYR 7/6)	5,0),	Group a	at a depth of
SAND, with clay (SP-SC): Bluish gray (G1EY2 65B), minst, medium dense, fine grained (G1EY2 65B), minst, medium dense,	2			224	10	236.9_								
S.A.P. with chy (SP-SC). Bluish gray   S.A.P. with chy (SP-SC). Bluish gray   S.A.P. with sit (SP-SM). Serving brown	SS 3	X		2-2-4	18	234.6	5—		CLAY, sandy 6/1), medium s	( <b>CL)-</b> Blu stiff, high p	iish gray (GL blasticity	EY2		
SS		X	<b>A</b>	5-8-9	16	_			<b>SAND, with c</b> (GLEY2 6/5B)	lay (SP-SC), moist, m	C)- Bluish gra edium dense	ay fine		
SS	SS	X	<b>A</b>	3-6-7	12	232.1_	10			ilt (SP-SM vet. mediur	 [)- Strong brom dense	own		
SAA except light brown (7.5YR 6/4)  SAA except light brown (7.5YR 6/4)  SAA except dark olive gray (5Y 3/2)  SAA except reddish brown (5YR 5/4), very dense  SAND, with clay (SP-SC) - Strong brown (7.5YR 5/8), wet, medium dense, fine grained, nonplastic to low plasticity on plasticity of low plasticity on plasticity of low plasticity on plasticity of low plasticity of lo	SS	X	<b>A</b>	5-7-10	12		10-		SAA except bi					
SS			<b>A</b>	8-13-11	12		- - -		_	ght brown	(7.5YR 6/4)			
SS AA except reddish brown (5YR 5/4), very dense  SAA except reddish brown (5YR 5/4), very dense  CLAY, sandy (CL)- Yellowish red (5YR 5/8), wet, stiff, high plasticity, fine grained SAND  SS AND, with clay (SP-SC)- Strong brown (7.5YR 5/8), wet, medium dense, fine grained, nonplastic to low plasticity  SAND, with silt (SP-SM)- Olive gray (5Y 4/2), wet, very dense, fine grained, -HCL  SS AA except reddish brown (5YR 5/4), very dense  SAND, with clay (SP-SC)- Strong brown (7.5YR 5/8), wet, medium dense, fine grained, nonplastic to low plasticity  SAND, with silt (SP-SM)- Olive gray (5Y 4/2), wet, very dense, fine grained, -HCL  SS AA except olive gray (5Y 5/2), medium dense, fine to medium grained  CLAY, with sand (CL)- Light bluish gray (GLEY27/IOB), wet, stiff, high plasticity, fine  PREPARED BY: A. TAYLOR  REVIEWED BY: P. DEPREE  SITE Vogtle Units 3 & 4 COL Project  Final Log  B-6008	7	$\cap$					15				,			
SS AA except reddish brown (5YR 5/4), very dense  SAA except reddish brown (5YR 5/4), very dense  CLAY, sandy (CL)- Yellowish red (5YR 5/8), wet, stiff, high plasticity, fine grained SAND  SS AND, with clay (SP-SC)- Strong brown (7.5YR 5/8), wet, medium dense, fine grained, nonplastic to low plasticity  SAND, with silt (SP-SM)- Olive gray (5Y 4/2), wet, very dense, fine grained, -HCL  SS AA except reddish brown (5YR 5/4), very dense  SAND, with clay (SP-SC)- Strong brown (7.5YR 5/8), wet, medium dense, fine grained, nonplastic to low plasticity  SAND, with silt (SP-SM)- Olive gray (5Y 4/2), wet, very dense, fine grained, -HCL  SS AA except olive gray (5Y 5/2), medium dense, fine to medium grained  CLAY, with sand (CL)- Light bluish gray (GLEY27/IOB), wet, stiff, high plasticity, fine  PREPARED BY: A. TAYLOR  REVIEWED BY: P. DEPREE  SITE Vogtle Units 3 & 4 COL Project  Final Log  B-6008							-[ -[							
SS A 2-6-9 16 203.1 25-2 dense CLAY, sandy (CL)- Yellowish red (5YR 5/8), wet, stiff, high plasticity, fine grained SAND, with clay (SP-SC)- Strong brown (7.5YR 5/8), wet, medium dense, fine grained, nonplastic to low plasticity  SAND, with silt (SP-SM)- Olive gray (5Y 4/2), wet, very dense, fine grained, -HCL  SS A 3-4-6 8 SAA except olive gray (5Y 5/2), medium dense, fine to medium grained  SAA except olive gray (5Y 5/2), medium dense, fine to medium grained  CLAY, with sand (CL)- Light bluish gray (GLY2 7/10B), wet, stiff, high plasticity, fine PREPARED BY: A TAYLOR REVIEWED BY: P. DEPREE  SITE Vogtle Units 3 & 4 Toylor B-6008	SS 8	X	^	7-19-11	16		20-		SAA except da	ark olive gi	ray (5Y 3/2)			
SS A 2-6-9 16 203.1 25-2 dense CLAY, sandy (CL)- Yellowish red (5YR 5/8), wet, stiff, high plasticity, fine grained SAND, with clay (SP-SC)- Strong brown (7.5YR 5/8), wet, medium dense, fine grained, nonplastic to low plasticity  SAND, with silt (SP-SM)- Olive gray (5Y 4/2), wet, very dense, fine grained, -HCL  SS A 3-4-6 8 SAA except olive gray (5Y 5/2), medium dense, fine to medium grained  SAA except olive gray (5Y 5/2), medium dense, fine to medium grained  CLAY, with sand (CL)- Light bluish gray (GLY2 7/10B), wet, stiff, high plasticity, fine PREPARED BY: A TAYLOR REVIEWED BY: P. DEPREE  SITE Vogtle Units 3 & 4 Toylor B-6008							- <u>-</u> -							
SS A SA except olive gray (5Y 5/2), medium dense, fine to medium grained  SA SA except olive gray (5Y 5/2), medium dense, fine to medium grained  SA SA except olive gray (5Y 5/2), medium dense, fine to medium grained  SA SA except olive gray (5Y 5/2), medium dense, fine to medium grained  SA Except olive gray (5Y 5/2), medium dense, fine to medium grained  SA Except olive gray (5Y 5/2), medium dense, fine to medium grained  SE SA except olive gray (5Y 5/2), medium dense, fine to medium grained  SE S	SS	$\mathbb{H}$	<b>A</b>	16-25-27	13		-		SAA except re	eddish brov	vn (5YR 5/4)	verv		
SS 2	9	A					25-		dense		(=, ,)	,		
SS 2  2-6-9 16  2-6-9 16  35 SAND, with clay (SP-SC)- Strong brown (7.5YR 5/8), wet, medium dense, fine grained, nonplastic to low plasticity  SAND, with silt (SP-SM)- Olive gray (5Y 4/2), wet, very dense, fine grained, -HCL  SS 4  3-4-6 8  3-4-6 8  3-4-7 16  SAND, with silt (SP-SM)- Olive gray (5Y 5/2), medium dense, fine to medium grained  CLAY, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine  PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SITE Vogtle Units 3 & 4 COL Project  Final Log  HOLE NO.  B-6008						213.1_	1							
SS 2  2-6-9 16  2-6-9 16  35 SAND, with clay (SP-SC)- Strong brown (7.5YR 5/8), wet, medium dense, fine grained, nonplastic to low plasticity  SAND, with silt (SP-SM)- Olive gray (5Y 4/2), wet, very dense, fine grained, -HCL  SS 4  3-4-6 8  3-4-6 8  3-4-7 16  SAND, with silt (SP-SM)- Olive gray (5Y 5/2), medium dense, fine to medium grained  CLAY, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine  PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SITE Vogtle Units 3 & 4 COL Project  Final Log  HOLE NO.  B-6008	88	Н	<b>A</b>	3-5-7	18		1		CLAV sandy	(CL) Val	llowish rad (	SVP		
SS 2  2-6-9 16  2-6-9 16  35 SAND, with clay (SP-SC)- Strong brown (7.5YR 5/8), wet, medium dense, fine grained, nonplastic to low plasticity  SAND, with silt (SP-SM)- Olive gray (5Y 4/2), wet, very dense, fine grained, -HCL  SS 4  3-4-6 8  3-4-6 8  3-4-7 16  SAND, with silt (SP-SM)- Olive gray (5Y 5/2), medium dense, fine to medium grained  CLAY, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine  PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SITE Vogtle Units 3 & 4 COL Project  Final Log  HOLE NO.  B-6008	10	A					30-		5/8), wet, stiff, SAND	high plast	icity, fine gra	nined		
SS 13 3-4-6 8 3-4-6 8 3-4-7 16 SAA except olive gray (5Y 5/2), medium dense, fine grained, nonplastic to low plasticity  SAND, with silt (SP-SM)- Olive gray (5Y 4/2), wet, very dense, fine grained, -HCL  SAA except olive gray (5Y 5/2), medium dense, fine to medium grained  CLAY, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine  PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SAND, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine  Final Log  HOLE NO.  B-6008						208.1_								
SS 13 3-4-6 8 3-4-6 8 3-4-7 16 SAA except olive gray (5Y 5/2), medium dense, fine grained, nonplastic to low plasticity  SAND, with silt (SP-SM)- Olive gray (5Y 4/2), wet, very dense, fine grained, -HCL  SAA except olive gray (5Y 5/2), medium dense, fine to medium grained  CLAY, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine  PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SAND, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine  Final Log  HOLE NO.  B-6008	00		<b>A</b>	2-6-0	16		-		CAND '41	lov (CD C	7) (4 1			
SS   A   16-35-37   10   203.1   40   44/2), with silt (SP-SM)- Olive gray (5Y 4/2), wet, very dense, fine grained, -HCL   SAA except olive gray (5Y 5/2), medium dense, fine to medium grained   SS   A   3-4-6   8   SAA except olive gray (5Y 5/2), medium dense, fine to medium grained   CLAY, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine   HOLE NO.   B-6008		X		2-0-9	10		35		(7.5YR 5/8), w nonplactic to be	vet, mediur	n dense, fine	own grained,		
SS V A 3-4-6 8 SAND, with silt (SP-SM)- Olive gray (5Y 4/2), wet, very dense, fine grained, -HCL SAND, with silt (SP-SM)- Olive gray (5Y 5/2), medium dense, fine to medium grained  SS A SAA except olive gray (5Y 5/2), medium dense, fine to medium grained  CLAY, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SAND, with silt (SP-SM)- Olive gray (5Y 5/2)  SAA except olive gray (5Y 5/2), medium dense, fine to medium grained  CLAY, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine PREPARED BY: A. TAYLOR  REVIEWED BY: P. DEPREE  Final Log  B-6008						203.1	+		nonpiastic to i	ow plastici	ıy			
SS   3-4-6   8   3-4-6   8   SAA except olive gray (5Y 5/2), medium dense, fine to medium grained   SAA except olive gray (5Y 5/2), medium dense, fine to medium grained   SAA except olive gray (5Y 5/2), medium dense, fine to medium grained   CLAY, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine   HOLE NO.   REVIEWED BY: P. DEPREE   Final Log   B-6008						203.1_	-							
SS AA except olive gray (5Y 5/2), medium dense, fine to medium grained  SAA except olive gray (5Y 5/2), medium dense, fine to medium grained  CLAY, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine  PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SITE Vogtle Units 3 & 4 COL Project Final Log  HOLE NO. B-6008	SS 12	$\mathbb{X}$	^	16-35-37	10		40-		SAND, with s 4/2), wet, very	ilt (SP-SM dense, fin	)- Olive gray e grained, -H	CL (5Y		
13 A dense, fine to medium grained  193.1 SS A CLAY, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine  PREPARED BY: A. TAYLOR  REVIEWED BY: P. DEPREE  SITE Vogtle Units 3 & 4 COL Project  Final Log  B-6008	_						<del> </del>			,	= /			
13 A dense, fine to medium grained  193.1 SS A CLAY, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine  PREPARED BY: A. TAYLOR  REVIEWED BY: P. DEPREE  SITE Vogtle Units 3 & 4 COL Project  Final Log  B-6008							-							
SS A 3-4-7 16 CLAY, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine  PREPARED BY: A. TAYLOR  REVIEWED BY: P. DEPREE SITE Vogtle Units 3 & 4 COL Project  Final Log  B-6008	SS	X	<b>A</b>	3-4-6	8				SAA except of	live gray (5	Y 5/2), medi	um		
SS A 3-4-7 16 CLAY, with sand (CL)- Light bluish gray (GLEY2 7/10B), wet, stiff, high plasticity, fine  PREPARED BY: A. TAYLOR  REVIEWED BY: P. DEPREE Vogtle Units 3 & 4 COL Project  Final Log  B-6008	13					100.1	45			610	··			
PREPARED BY: A. TAYLOR  REVIEWED BY: P. DEPREE  SITE  Vogtle Units 3 & 4 COL Project  Final Log  B-6008						193.1_								
PREPARED BY: A. TAYLOR  REVIEWED BY: P. DEPREE  SITE  Vogtle Units 3 & 4 COL Project  Final Log  B-6008	SS	X	<b>A</b>	3-4-7	16				CLAY, with s	and (CL)-	Light bluish	gray		
				1		SITE	Vo	ogtle I	Jnits 3 & 4 C	OL Projec		-10, 1111C		
	REVIE	WE	D BY: P. DEPREE				481 of		Final Log	<u> </u>			B	-0008



GE	EC	OTECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	C	JOB NO. SHEET 6141-06-0286 2	ΓNO. OF	HOLE NO. 3 B-6008
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" <u>C</u> 3rd 6" <u>T</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	N V C L	IOTES ON: VATER LEVELS, CHARACTER OF RILLING AND ABORATORY ESTING
14		20 40 60 80			188.1_	-		grained SAND, -HCL		
SS 15	X	<b>A</b>	3-4-7	18	183.1_	55—		CLAY (CL) - Mottled light bluish gray (GLEY2 7/10B) and light brown, wet, stiff, high plasticity, -HCL		
SS 16	X	<b>A</b>	2-4-8	13	178.1	60-		CLAY, silty (CL-ML)- Pale yellow (2.5Y 8/4), wet, stiff, high plasticity, -HCL		
SS 17	X	<b>A</b>	2-4-5	16	173.1	65-		CLAY, sandy (CL)- Brownish yellow (10Y) 6/6), wet, stiff, high plasticity, fine grained SAND, -HCL	R	
SS 18	×	<b>A</b>	5-5-6	12	168.1	70-		SAND, with silt (SP-SM)- Brownish yellow (10YR 6/6), wet, medium dense, fine grained -HCL	Ve	Vater level depth at nd of 3/6/07= Top of
SS 19	X	<b>A</b>	3-6-7	8	163.1	75-		SAND, with clay (SP-SC)- Reddish yellow (7.5YR 6/8), wet, medium dense, fine grained nonplastic to low plasticity, -HCL	, y	asing Vater level depth at eginning of 3/7/07= 1.5 feet
SS 20	X	<b>A</b>	2-4-4	9	159.1_	80-		SAND, clayey (SC)- Light red (10R 6/8), wet, loose, medium to coarse grained, mediun plasticity, -HCL	n 	
SS 21	X		50/6"	5		85-		<b>SAND, with silt (SP-SM)-</b> White (5Y 8/1), wet, very dense, fine grained, contains cementation, +HCL		
SS 22	X		50/3"	1		90-		SAA except very fine grained	8	nstalled 3" steel asing to a depth of 8.5 feet
SS 23	X	<b>A</b>	9-12-21	18	147.6_	- - 95 —		CLAY, silty (CL-ML)- Greenish gray (GLEY1 6/10GY), wet, hard, high plasticity, +HCL	T	Advanced casing to a epth of 91.0 feet op of Blue Bluff Aarl at a depth of 2.5 feet
SS 24	X	<b>A</b>	12-18-18	18		100-		SAA except contains shell fragments		
SS 25	X	<b>A</b>	13-12-19	18		105-		SAA except contains no shells		
					SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	H	OLE NO. <b>B-6008</b>



GE	EC	TECHNICAL LO	~	OJEC ogtl		3 & 4	C C	JOB NO. SHEET NO <b>6141-06-0286 3</b> OF		HOLE NO. <b>B-6008</b>
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" <u>S</u> 3rd 6" <u>Z</u>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTE WATE CHAR DRILL	ES ON: ER LEVELS, RACTER OF ING AND RATORY
SS 26	X	20 40 60 80	13-28-22	18		110-		SAA except greenish gray (GLEY1 5/5GY)		
SS 27	X		23-28-50/5"	18		- - 115—		SAA		
SS 28	X		10-28-50/3"	18		120-		SAA except contain trace shell fragments		
SS 29	X	<b>A</b>	18-17-24	18		125-		SAA except greenish gray (GLEY1 6/10Y), contains no shells		
SS 30	X	•	33-35-26	18		130-		SAA except contains trace shell fragments		
SS 31	X	<b>A</b>	18-22-26	18		135—		SAA except greenish gray (GLEY1 5/5G), contains no shells		
SS 32	X	<b>A</b>	7-8-14	18	103.1_	140-		CLAY (CH) - Greenish gray (GLEY1 5/10GY), wet, very stiff, high plasticity, +HCL		
SS 33	X	<b>A</b>	15-18-22	18	22.1	145-		SAA except hard		
SS 34	X	<b>A</b>	10-12-13	18	93.1_ 90.1_	150-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/10GY), wet, very stiff, high plasticity, +HCL Boring terminated at 150.0 feet		
		. : : : :	1		SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE N	3-6008



C	= C	TECHNICAL LO	<u> </u>	OJEC					JOB NO.		SHEET NO		HOLE NO.
			Ψ,			3 & 4 (	COI	L Project	6141-0	06-0286	<b>1</b> OF		B-6009
LOGG	FD B,	Y L. Davis	C	OUR	DINATES	N 1111	772	.7 E 6217	148.2	BEGUN 2/20/200	17	2/20/2	
DRILLI	ER	L. Davis	D	RILL	MAKE AND		113	HOLE DIAM		HAMMER SE			TOTAL DEPTH
	B	Burnett-Gregg Drilling			Fros	ste XDI	ML	3 I	nches		X02958		100.0
GROU		$\nabla$ /	ER SITI	E:			<b>T</b> 7	a adla Elast	nia Cana		and Wa	l	CA
	46.0	<b>y</b> /						ogtle Elect	ric Gene	erating Pi	ant - wa	ynesbo	ro, GA
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" _z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory to of sample b	DN AND CL lassification adjusting data and/or y field geologist/or	sted based on	ION	CHARA	LEVELS, CTER OF NG AND ATORY
SS		20 40 60 80	3-2-2	24	246.0		1111 9	SAND with s	ilt (SP_SM	)- Red (2.5V	R 5/6)	Top of I	Barnwell at a
1 SS 2 SS 3		<b>A</b>	3-2-5 2-2-3	20 12	242.8_			SAND, with sidamp, loose, fi SAA except ye SAND, silty (Sdamp, loose, fi	ellowish re	d (5YR 5/8)		depth of	0.0 feet
SS 4		<b>A</b>	4-4-6	12	228.0	5—	11	SAA except re	_	_			
SS 5		<b>A</b>	4-7-10	18	238.0_ 236.5_	10-		SAND, silty, c yellow (5YR 6 medium to coa	clayey (SC)/8), moist,	-SM)- Reddi medium den	sh se,		
SS 6	X	<b>A</b>	9-12-15	23	233.0_	-11		SAND, silty (\$6/2), moist, me	SM)- Redd edium dens	ish yellow (5 e, fine grain	SYR ed,	Davis.	ging by L. ogging by M.
SS 7	X	^	6-9-8	18		15-		SAA except co SAND, clayey 5/8) and brown medium dense	(SC)- Yel nish yellow , medium g	lowish red (3 (10YR 6/8) grained	SYR — J , damp,	Herrera	
SS 8	X	<b>A</b>	4-5-6	18	229.0_	20-		SILT (ML) - I brownish yelld plasticity	Pale yellow ow (10YR 6	(5Y 8/3) and (5/8), moist, s	d tiff, low		
SS 9	X	<b>A</b>	6-12-20	18	220.0_	25-	:	SAA except da	amp, hard				
SS 10	X	<b>A</b>	10-12-16	18	215.0_	30-		CLAY, silty ( (GLEY1 5/5G plasticity, +HC	CL-ML)- (Y), damp, CL	Greenish gravery stiff, lov	y v 		
SS 11	×		50/3"	0.5	209.0_	35—6		* <b>SHELL HAS</b> (5Y 8/2), wet,	SH, clayey very dense	(GC)- Pale :	yellow		
SS 12	X	<b>A</b>	18-35-22	18		40-		*SILT (ML)- hard, contains	Pale yello shell fragn	w (2.5Y 8/4) nents, +HCL	, damp,		
SS 13	X	<b>A</b>	24-26-21	15	199.0_	45—		SAA					
SS	X	<b>A</b>	25-22-25	18				*CLAY, silty 8/2), moist, ha	(CL-ML)-rd, contain	Pale yellow s shell fragm	ents,		
		BY: A. TAYLOR BY: P. DEPREE			SITE	Vog	gtle U	Units 3 & 4 CO Final Log	OL Projec			HOLE NO ${f B}$	-6009
		· ·			l	484 of 7		- 11101 1206	•				3007



GE	EC	TECHNICAL LO	<u> </u>	OJEC ogtl		3 & 4	l Co	JOB NO. SHEET N OL Project 6141-06-0286 2 c	O. HOLE NO. B-6009
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" I	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40 60 80			194.0_	-		+HCL	
SS 15	X	<b>A</b>	12-18-19	18	189.0	55—		*SAND, silty (SM)- Pale yellow (5Y 8/2), moist, very dense, fine grained, contains shell fragments, +HCL	
SS 16	X	<b>A</b>	8-14-15	13	184.0	60-		*SAND, clayey (SC)- Pale yellow (2.5Y 7/4) to yellow (2.5Y 7/6), and pale yellow (5Y 8/2), moist, medium dense, contains shell fragments, +HCL	
SS 17	X	<b>A</b>	22-22-20	16		65 –		*CLAY (CL) - Pale yellow (5Y 8/2), moist, hard, contains shell fragments, +HCL	
SS 18	X	<b>A</b>	24-20-35	16		70-		SAA except pale yellow (2.5Y 8/4)	
SS 19	X	<b>A</b>	15-20-18	18	169.0	75-		*SAA except Yellow (2.5Y 7/6) and low plasticity	
SS 20	X	<b>A</b>	40-18-12	18	107.0_	80-		SAND, clayey (SC)- Pale yellow (2.5Y 8/2) and yellow (2.5Y 8/6), moist, medium dense, medium to coarse grained, contains shell fragments, +HCL	
SS 21	X	<b>A</b>	13-18-26	18		85 <del>-</del>		SAA except pale yellow (2.5Y 8/2), dense	
SS 22	X		8-15-50/1"	16	154.0	90-		SAA except pale yellow (2.5Y 8/3), very dense fine to medium grained	
SS 23			50/1"	0.5		- - 95 –		*SHELL HASH (GP)- Pale yellow (2.5Y 8/2), moist, very dense, +HCL	Top of Utley Limestone at a depth of 92.0 feet
SS 24	X	<b>A</b>	24-24-20	0	149.0_ 146.0_	100-		NO RECOVERY Boring terminated at 100.0 feet	Loss of circulation at a depth of 97.0 feet
					SITE				1015 10
					SIIE	485 of	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-6009</b>



GEC	OTECHNICAL LO	$\mathbf{C}$	ojec <b>ogtl</b>		3 & 4 C	COL	Project   JOB NO.   6141-	06-0286	SHEET NO.		HOLE NO. <b>B-6010</b>
OGGED		С	OOR	DINATES				BEGUN	. –	COMPL	
ORILLER	D. Atkinson	D	RILL	MAKE AND		893	3 E 621059.2  HOLE DIAMETER	2/28/20 HAMMER S	<b>07</b> ERIAL NUMBE	3/2/2 ER	2007 TOTAL DEPT
	White-MACTEC				ME-55		3 Inches		331145		169.3
GROUND 263	$\nabla$ /	TER SITI	E:			Vo	ogtle Electric Gen	erating Pl	lant - Way	ynesbo	oro, GA
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" - 2 2nd 6" O 3rd 6" A	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	5	DESCRIPTION AND C  (* = field classification adji laboratory testing data and/ of sample by field geologist	usted based on	ΓΙΟΝ	CHARA DRILLI	R LEVELS, ACTER OF NG AND ATORY
SS V	20 40 60 80	1-1-1	12	263.4		S	AND, with silt (SP-SM 7.5YR 5/8), damp, very	1)- Storong b	orown	Top of	Barnwell
1 /V		1-1-1	13			S	7.5YŘ 5/8), damp, very AA	loose, fine g	rained	Group a 0.0 feet	it a depth of
SS 2 SS 3		1-1-1	10		5-	S	AA except reddish yell	ow (7.5YR 6	(/8)		
SS 4	<b>^</b>	1-1-3	8	255.4_		S	AA except strong brow	rn (7.5YR 5/8	3), loose		
SS 5	<b>A</b>	3-3-5	13	252.9_	10-	S	AND, with clay (SP-Samp, loose, fine grained	C)- Red (10Fd	R 4/8),		
$\begin{bmatrix} SS \\ 6 \end{bmatrix}$	<b>^</b>	3-4-4	9		-1.1	Sm	AND, with silt (SP-SM noist, loose, fine grained	<b>1)-</b> Red (10R	4/8),		
SS 7	<b>A</b>	4-6-8	10		15-		AA except yellowish reense	ed (5YR 5/6).	, medium		
SS 8	<b>A</b>	7-8-9	12		20-	S	AA except red (2.5YR	4/8)		Installed casing t 18.5 fee	d 3" steel o a depth of
SS 9	<b>A</b>	7-12-11	9	236.4	25	S	AA				
SS 10	<b>A</b>	5-5-7	14		30-	S 5 p	AND, clayey (SC)- Str (8), moist, medium den lasticity	ong brown (	7.5YR ed, low		
SS 11	<b>A</b>	5-8-6	7	231.4_	35-	S	AND, with silt (SP-SM 7.5YR 6/8), wet, mediu nedium grained	<b>1)</b> - Reddish ym dense, fine	/ellow		
SS 12	<b>A</b>	3-4-6	8	221.9_	40-	S	AA except reddish yell	ow (7.5YR 7	/8), -HCL		
SS 13	<b>A</b>	2-3-4		216.4	45—	CO	CLAY, silty (CL-ML)- GLEY1 8/10Y), wet, m igh plasticity, +HCL	Light greeni edium stiff, r	sh gray nedium to		
SS X	<b>A</b>	2-4-8	18	216.4_		C	CLAY, silty with sand greenish gray (GLEY)	(CL-ML)- L: /10Y), wet, s	ight stiff, high	HO! E N'	
KEPARE	ED BY: A. TAYLOR ED BY: P. DEPREE			SIIE	Vog		nits 3 & 4 COL Projec Final Log	ct		HOLE NO	-6010



<u> </u>	OTECHNICAL LO	<u> </u>	ojec ogtl		3 & 4	C	JOB NO. SHEET NO <b>6141-06-0286</b> 2 OF	
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14	20 40 60 80			211.4_			plasticity, +HCL	
SS X	<b>A</b>	12-18-17	18		55—		CLAY (CH) - Greenish gray (GLEY1 5/10GY), wet, hard, high plasticity, +HCL	
SS 16	•	6-9-11	18	206.4_	60-		CLAY, silty (CL-ML)- Light greenish gray (GLEY1 8/10Y), wet, very stiff, medium plasticity, +HCL	
SS 17		50/3"	1	196.4_	65—		SAA except hard, nonplastic	
SS 18	<b>A</b>	17-19-24	18	190.4_	70-		CLAY, with sand (CL)- Pale yellow (2.5Y 8/4), wet, hard, medium plasticity, medium to coarse grained SAND, +HCL	
SS 19	<b>A</b>	12-15-20	18	171.12	75—		SAND, with clay (SP-SC)- Pale yellow (2.5Y 8/2), wet, dense, fine grained, nonplastic, contains shell fragments, +HCL	
SS Z	•	11-25-36	18	181.4_	80-		SAA except pale yellow (2.5Y 8/4), very dense, fine to medium grained, contains no shell fragments	
SS 21	<b>A</b>	27-19-26	18	_	85—		SAND, with silt (SP-SM)- Pale yellow (2.5Y 8/4), wet, dense, fine to medium grained, nonplastic, +HCL	
SS Z2	<b>A</b>	18-13-14	18	171.4	90—		SAA except pale yellow (2.5Y 8/3), medium dense, fine grained	Water level depth at end of 2/28/07 = Top
SS Z	<b>A</b>	8-13-11	16	.,	- - 95—		SAND, clayey (SC)- Very pale brown (10YR 8/4), wet, medium dense, fine to medium grained, nonplastic to low plasticity, contains trace shell fragments, +HCL	Water level depth at beginning of 3/1/07 = 42.4 feet
SS 24	<b>A</b>	7-9-7	18	161.4_	100-		SAA	
SS Z	<b>A</b>	7-10-12	18	101.7_	105—		SAND, with clay (SP-SC)- Pale yellow (2.5Y 8/3), wet, medium dense, fine grained, contains trace shell fragments, +HCL	
	<u> </u>	<u> </u>		SITE	V	ogtl	e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-6010</b>



GE	EC	TECHNICAL LOC	<u> </u>	OJEC N <b>otl</b>		3 & 4		JOB NO.   SI DL Project   6141-06-0286	HEET NO	
SAMP. TYPE AND NO.	SAMPLE		1st 6" -z 2nd 6" C 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATIOI  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>A</b>	4-6-18	14		110-		SAA except very pale brown (10YR 8/4) to medium grained, contains no shell frag	), fine gments	
SS 27	X	<b>A</b>	12-14-17	16	146.4	115-		SAA except very pale brown (10YR 8/2)	), dense	
SS 28	X		9-8-50/6"	18	141.4	120-		SAND, clayey (SC)- Pale yellow (2.5Y wet, very dense, fine to medium grained, nonplastic to low plasticity, contains she fragments, +HCL	8/4), Îl	Top of Utley Limestone at a depth of 117.0 feet
SS 29	X		15-50/3"	10	136.9_	125-		SAND, with silt (SP-SM)- Pale yellow (8/4), wet, very dense, contains shell fragr	(2.5Y ments,	T. CDL DLC
SS 30	X	<b>A</b>	5-6-15	18		130-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/5GY), wet, very stiff, high plasticity, +HCL		Top of Blue Bluff Marl at a depth of 126.5 feet
SS 31	X	•	15-40-42	18		135—		SAA except greenish gray (GLEY1 6/5C hard, nonplastic to high plasticity, contain cementation	GY), in	
SS 32	X	<b>A</b>	10-17-27	18	121.4_	140-		SAA except greenish gray (GLEY1 6/10 high plasticity	OGY),	Water level depth at end of 3/1/07 = Top of casing
SS 33	X		12-16-50/4"	10		145—		CLAY, with sand (CL)- Greenish gray (GLEY1 6/10GY), wet, hard, medium to plasticity, very fine grained SAND, +HC	high	Water level depth at beginning of 3/2/07 = 33.2 feet
SS 34	X	<b>A</b>	10-16-29	18	111.4	150-		SAA		
SS 35	X	<b>A</b>	10-15-22	18		155—		CLAY, silty (CL-ML)- Greenish gray (GLEY1 6/5GY), wet, hard, high plastici +HCL	ity,	
SS 36	×		50/3"	3		160-		SAA except nonplastic, contains cementa	ation	
SS	×		50/4"	4	SITE	V	ogtl	SAA e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-6010</b>



GE	OTECHNICAL LO	PROJE Vogt		3 & 4 C	OL Project	JOB NO. 6141-06-0286	SHEET NO		HOLE NO. <b>B-6010</b>
S	Mark N-VALUE (SPT)  ○ WATER CONTENT %  H ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - 2 2nd 6" 2 3rd 6" 4 RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIO  (* = field clr laboratory te laboratory te of sample by	N AND CLASSIFICAT assification adjusted based on sting data and/or re-examination field geologist/engineer)	TION	NOTES WATER CHARA DRILLIN LABORA TESTIN	LEVELS, CTER OF IG AND ATORY
37 SS 2 38	X ·	11-50/4" 5	94.1_	165	SAA except gr high plasticity Boring termina	eenish gray (GLEY1 6. ted at 169.33 feet	/10GY),		
			SITE	Vogtl	le Units 3 & 4 CC Final Log	DL Project		HOLE NO	6010



COMPONENTIES   COLOR	GE	<b>O</b>	TECHNICAL LO	C	OJEC		204		AT Described	JOB NO.	0206	SHEET NO		
DRILLER   Burnett-Gregg Drilling   Frost XDM   Hole DIAMETER   HAMMER SERIAL NUMBER   1071AL DEPTH   124.0				•			3 & 4	CC	L Project	0141-0		I OF		
Burnett-Gregg Drilling			M. Herrera		- DIII I									
	DRILLE		urnett-Gregg Drilling	ا	RILL									
A N-VALUE (SPT)		ND EL	DEPTH/EL. GROUND WAT	ER SITI	E:				•					
20 40 60 80  21-1 18 242.5  24.3 14  242.5  24.3 14  242.5  24.3 15  242.5  3 23.5 13  238.5 5  8 4 23.5 13  238.5 5  8 5 7 2 23.1 0  9-12-13 18  9-12-13 18  9-12-13 18  9-12-13 18  9-12-13 18  9-12-13 18  238.5 5  8 5 8 7 2 23.1 0  5 5-7 15  227.0  231.0  25 8 8 8 2 2 23.1 0  5 5-7 15  27 23.1 0  27 23.1 0  28 27 29.1 15  28 28 2 29.1 15  29 29.1 15  29 29.1 15  20 20 20 25  20 20 25  20 25  20 25  20 25  20 25  20 25  20 25  20 25  20 25  20 25  20 25  20 25  20 25  20 25  20 25  20 27 26  20 25  20 25  20 27 26  20 25  20 25  20 25  20 25  20 25  20 25  20 25  20 25  20 27 26  20 25  20 27 26  20 25  20 27 26  20 25  20 27 26  20 27 26  20 27 26  20 27 26  20 27 26  20 27 26  20 27 26  20 27 26  20 27 26  20 27 26  20 27 26  20 27 26  20 27 26  20 27 27 26  20 27 26  20 27 27 26  20 27 27 26  20 27 26  20 27 27 27 27 27 27 27 27 27 27 27 27 27	24	44.0 	¥ /						Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesboro,	GA
SS	SAMP. TYPE AND NO.	SAMPLE	WATER CONTENT % + ATT. LIMITS %  I FINES %	1st 6" -2 2nd 6" O 3rd 6" A	RECOVERY (in)		DEPTH IN FT	GRAPHICS	( * = field c	lassification adjus	sted based on	TION	WATER LE\ CHARACTE DRILLING A LABORATO	/ELS, R OF ND
SADD, with \$\frac{\text{SND}}{\text{ and policy}} \text{ constants}  constan	SS		20 40 60 60	2-1-1	18				SAND (SP) - I	Light yellov	wish brown (	10YR	Top of Barny	well
SAND, clayer (SC) - Brownish yellow (10YR 678), yellowish red (SYR 788), and white (SYR 578), yellow (19YR 789), and pale yellow (SYR 678), yellow (19YR 789), and pale yellow (SYR 58), yellow (SYR 58	SS 2 SS		<b>X</b>				- - -		SAND, with sand pink (5YR	ilt (SP-SM 7/4), dam	)- Red (2.5Y p, loose, fine		0.0 feet	epui oi
SS   SA   SA   SA   SA   SA   SA   SA			<b>A</b>	9-12-13	18	238.5_	5-		SAND, clavev	(SC)- Bro	— — — — — wnish vellov	 v (10YR		
SS   A	4 SS	X	<b>A</b>	6-10-10	16		-		grained SAA except re					
SS   S			<b>A</b>	5-6-7	12		10-		Č					
227.0   227.	6			5.5.7	1.5	231.0_	-							
SS	SS   7	X		5-5-7	15	227.0_	15-		CLAY (CL)- yellow (10YR damp, stiff, lov	Yellowish 7/8), and pw plasticity	red (5YR 5/5) pale yellow (5	8), 5Y 8/3), 		
25————————————————————————————————————	SS 8	<b>A</b>	<b>\</b>	2-4-4	18		20-		SAND, clayey moist, loose, c	( <b>SC</b> )- Yel ontains CL	llow (2.5Y 7) AY lenses	/6),		
SS   A   207.0   18   207.0   35-   SAA except pale yellow (5Y 8/3)   Loss of circulation at a depth of 37.0 feet   37.28-28   18   202.0   40-   SK   202.0   40-   SK   202.0   40-   SK   202.0   45-   SILT (ML) - Pale yellow (5Y 8/2), damp, hard, contains shell fragments, +HCL   SILT (ML) - Pale yellow (5Y 8/2), damp, hold of 40.0 feet   SILT (ML) - Pale yellow (5Y 8/2), damp, hard, +HCL   SILT (ML) - Pale yellow (5Y 8/2), damp, hold of 40.0 feet   HOLE NO.   B-6011	SS 9			2-3-3	18		25-		CLAY, silty (	CL-ML)-	Pale vellow (	(5Y 8/3).		
SS V 32-28-28 18 207.0 35- 207.0 35- 207.0 35- 207.0 35- 207.0 40- 35- 202.0 2	SS 10	X	<b>A</b>	11-14-14	18		30-		SILT (ML) - F stiff, low plast +HCL	Pale yellow icity, conta	(5Y 8/4), da ins shell frag	amp, very gments,		
SS 12		X	<b>A</b>	6-7-10	18		35-		SAA except pa	ale yellow (	(5Y 8/3)			
*CLAY (CL)- Yellow (2.5Y 7/6), damp, hard, contains shell fragments, +HCL  SS 7-12-27 16 SILT (ML) - Pale yellow (5Y 8/2), damp,  PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE SITE Vogtle Units 3 & 4 COL Project Final Log HOLE NO.  B-6011	SS 12	X	<b>A</b>	32-28-28	18		40-		*SHELL HAS (5Y 8/2), damp	SH, clayey o, very den	(GC)- Pale se, +HCL	yellow	a depth of 37 Installed 4" s	'.0 feet
SS 7-12-27 16 SILT (ML) - Pale yellow (5Y 8/2), damp,  PREPARED BY: A. TAYLOR  REVIEWED BY: P. DEPREE SILT (ML) - Pale yellow (5Y 8/2), damp,  Wogtle Units 3 & 4 COL Project  Final Log  HOLE NO.  B-6011	SS 13	X	<b>A</b>	13-20-25	15		- - 45—		*CLAY (CL) hard, contains	- Yellow (2 shell fragm	2.5Y 7/6), da nents, +HCL	 mp,	40.0 feet	Նիա 01
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SITE  Vogtle Units 3 & 4 COL Project  Final Log  HOLE NO.  B-6011	SS	X	<b>A</b>	7-12-27	16		- - -		SILT (ML) - F	Pale yellow	y (5Y 8/2), da	amp,		
490 of 724						SITE			Units 3 & 4 C	OL Projec	t			11



GE	EC	OTECHNICAL LO		OJE(		3 & 4	C	JOB NO. SHEET <b>OL Project 6141-06-0286 2</b>	NO. HOLE NO. OF 3 B-6011
/S	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" 0 3rd 6" ±	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14					192.0_	-			
SS 15	X	<b>A</b>	16-22-16	18		55-		CLAY, silty (CL-ML)- Pale yellow (5Y 8/3) damp, hard, contains shell fragments, +HCL	
SS 16	X	<b>A</b>	12-14-18	18		60-		SAA	
SS 17	X	•	14-20-22	11	182.0_	65-		SAND (SP) - Pale yellow (5Y 8/3), damp, dense, fine to medium grained, +HCL	
SS 18	X	<b>A</b>	18-32-24		177.0_	70-		*SHELL HASH, with clay (GP-GC)- Pale yellow (5Y 8/3), moist, very dense, +HCL	
SS 19	X	<b>A</b>	32-32-26	18	172.0_	75—		*SAND, clayey (SC)- Pale yellow (2.5Y 7/4) and yellow (2.5Y 7/6), moist, very dense, contains shell fragments, +HCL	
SS 20	X	<b>A</b>	14-17-18	16		80-		SAA except dense	
SS 21	X	<b>A</b>	13-15-17	17		85-		SAA	
SS 22	X	<b>A</b>	20-35-18	9		90-		SAA except very dense	
SS 23	×		50/3"	0	152.0_	95—		NO RECOVERY	Top of Utley Limestone at a depth of 92.0 feet
SS 24			50/1"	0		100-		NO RECOVERY	
SS 25			50/1"	0.25	142.0_ 137.0_	105—		*SHELL HASH (GP)- Pale yellow (2.5Y 8/2), wet, very dense	
			1		SITE			e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-6011</b>



GE		OTECHNICAL LO		OJE(		3 & 4	C (	DL Project   JOB NO.   SHEET NO   3 OF	
SAMP. TYPE AND NO.	SAMPLE	<ul><li>○ WATER CONTENT %</li><li>+ ATT. LIMITS %</li><li>□ FINES %</li></ul>	1st 6" -z 2nd 6" 0 3rd 6" ±	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	20 40 60 80	15-50/3"	13		110-		SILT, clayey (CL-ML)- Greenish gray (GLEY1 6/1 to GLEY1 5/1), damp, hard, low plasticity, +HCL	Top of Blue Bluff Marl at a depth of 107.0 feet
SS 27	X	<b>A</b>	16-22-24	18		115-		SAA	
SS 28	X	<b>A</b>	25-30-45	11	124.0_	120-		SAA Boring terminated at 120.0 feet	
					SITE	v	ogtl	e Units 3 & 4 COL Project	HOLE NO.
						492 of		Final Log	B-6011



GE	OTECHNICAL LO	1C	OJEC			~~~	JOB NO.		SHEET NO		HOLE NO.
		Y 1			3 & 4 (	COL Project	6141-	06-0286 BEGUN	1 OF	3 COMPL	B-6012
LOGGED	D. Atkinson		OOR	DINATES	N 1144	256.7 E 620	1490 5	3/5/200	7	3/6/2	
DRILLER		D	RILL	MAKE AND		HOLE DIA		HAMMER SE			TOTAL DEPTH
	White-MACTEC			C	ME-55	5 3	Inches		331145		120.0
GROUNE	$\nabla$ /	ATER SITE	<u>:</u>			V41- E1-		4'	4		CA
194	<b>4.</b> 2 <u>▼</u> /					Vogtle Elec	tric Gene	erating Pi	ant - wa	ynesbo	oro, GA
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" -z 2nd 6" O 3rd 6" _ x	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT		ION AND C d classification adju y testing data and/o e by field geologist	LASSIFICAT sted based on r re-examination engineer)	TION	CHARA DRILLI	R LEVELS, CTER OF NG AND ATORY
SS	20 40 00 80	WOH/18"	10	174.2		SAND, with 4/1), damp, v	silt (SP-SM	I)- Dark gray	(5YR	Top of I	Barnwell
		<b>♦</b> WOH/18"	12		- 13	SAA except	brown (7.5Y	'R 4/4)		0.0 feet	t a depth of
SS 2 SS 3	^	2-2-2	10		5—	SAA except	light brown	(7.5YR 6/4),	moist		
SS 4	<b>A</b>	2-3-3	9			SAA except	yellow (10Y	TR 7/6), loose	,		
SS 5	^	4-5-5	12	183.7_	10-	SAA except medium dens	reddish yelle se	ow (7.5YR 6/	/8), wet,		
	^	2-2-3	9	181.2_	1	SAND, with (7.5YR 7/8), nonplastic to	clay (SP-SO wet, loose, low plastici	C)- Reddish y fine grained,	yellow		
SS 7	^	2-3-3	9		15-	SAND, claye wet, loose, fi			7/8), ticity		
SS 8	<b>A</b>	1-2-3	12		20	SAA except plasticity	light gray (1	0YR 7/2), hi	gh		
SS 9	<b>A</b>	1-2-3	10	167.2_	25	SAA except high plasticit	pale yellow y	(2.5Y 7/4), n	nedium to		
SS 10	<b>A</b>	1-3-3	7	162.2	30-	<b>SAND, with</b> 7/4), wet, loc	silt (SP-SM ose, fine grai	I)- Pale yello ned	w (2.5Y		
SS 11	<b>A</b>	2-3-3	9	162.2_ 157.2	35-	SAND, with 7/4), wet, loo plasticity	clay (SP-Sose, fine grai	C)- Pale yelloned, low to n	ow (2.5Y nedium		
SS 12		<b>★</b> WOH/18"	13	152.2	40-	SILT, with s	sand (ML)- t, nonplastic	Pale yellow (	(5Y 7/3),		
SS 13		<b>◆</b> WOH/18"	10	148.2_	45-	SAND, with 7/4), wet, ver	silt (SP-SM ry loose, find	I)- Pale yello e to medium	w (2.5Y grained,		
ss	<b>A</b>	8-22-15	18		-2	SAND, claye wet, dense, f	ey (SC) - Pal ine to mediu	e yellow (2.5 m grained, m	SY 8/3), nedium		
	RED BY: A. TAYLOR /ED BY: P. DEPREE			SITE	Vo	gtle Units 3 & 4 C Final Lo	COL Projec	t		HOLE NO	-6012
I V I E VVI	DI.I.DLFNLL			<u> </u>	493 of 7		<u>'5</u>			<u>D</u>	UU12



GE	EC	OTECHNICAL LO		OJE(		3 & 4	· C(	JOB NO. DL Project 6141-06-0286	SHEET NO	
SAMP. TYPE AND NO.	SAMPLE	☐ FINES %	1st 6" - <del>2</del> 2nd 6" <u>2</u> 3rd 6" <del>2</del>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	ON	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14		20 40 60 80			142.2_	_		plasticity, +HCL		
SS 15	X	<b>A</b>	11-16-17	16	142.2_	55—		SAND, with clay (SP-SC)- Pale yellov 8/3), wet, dense, fine to medium graine nonplastic to low plasticity, contains sh fragments, +HCL	w (2.5Y ed, nell	
SS 16	X	<b>A</b>	15-9-7	15	132.2_	60-		SAA except pink (7.5YR 8/3), medium nonplastic, contains no shell fragments	n dense,	Installed 3" steel casing to a depth of 58.5 feet
SS 17	X	<b>A</b>	5-7-12	18	127.2_	65-		CLAY, silty (CL-ML)- Light greenish (GLEY1 8/10Y), wet, very stiff, high p +HCL	n gray lasticity,	
SS 18	X	<b>A</b>	12-16-30	16		70—		<b>SAND, with silt (SP-SM)-</b> Pale yellow 8/4), wet, dense, fine to medium graine	v (2.5Y ed, -HCL	
SS 19	X	<b>A</b>	9-11-15	18	117.2_	75—		SAA except pale yellow (2.5Y 7/4), modense, fine grained	edium	
SS 20	X	<b>A</b>	14-15-25	18	112.2_	80-		SAND, with clay (SP-SC)- Pale yellov 8/3), wet, dense, fine to medium graine nonplastic, contains trace shell fragmer +HCL	w (2.5Y ed, nts,	
SS 21	×		50/4"	4	112.2_	85—		SAND, with silt (SP-SM)- Pale yellow 8/3), wet, very dense, fine to medium a nonplastic, contains cementation, +HC	v (2.5Y grained, L	Top of Utley Limestone at a depth of 82.0 feet
SS 22	*	,	50/2"			90-		SAA		
SS 23	X		21-50/5"	8	97.7_	- - - 95—		SAA except pale yellow (2.5Y 8/4), co shell fragments	ntains	
SS 24	X		18-50/4"	18		100-		CLAY, silty (CL-ML)- Greenish gray (GLEY1 5/10GY), wet, hard, high plas +HCL	sticity,	Top of Blue Bluff Marl at a depth of 96.5 feet  Water level depth at end of 3/5/07 = Top of
SS 25	X	<b>A</b>	16-18-28	18		105—		SAA except greenish gray (GLEY1 6/1 contains shell fragments	10GY),	Water level depth at beginning of 3/6/07 = 59.2 feet
					SITE	V 494 of	_	e Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-6012</b>



GE	ΞC	OTECHNICAL LO		OJE(		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 3 OF		HOLE NO. <b>B-6012</b>
SAMP. TYPE AND NO.	SAMPLE	+ ATT. LIMITS %  ☐ FINES %	1st 6" -z 2nd 6" O 3rd 6" z		ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	CHAR. DRILL	R LEVELS, ACTER OF ING AND RATORY
SS 26	X	20 40 60 80	15-24-28	18		110-		SAA except greenish gray (GLEY1 5/10GY)		
SS 27	X	<b>A</b>	11-18-26	18		- - 115—		SAA except contains no shell fragments		
SS 28	X	<b>A</b>	14-16-32	18	74.2_	120-		SAA Boring terminated at 120.0 feet		
					SITE	v	[not]	e Units 3 & 4 COL Project	HOLE N	O.
						495 of		Final Log	B	3-6012



GEOTECHNICAL LOG	<u> </u>	OJEC				JOB NO.		SHEET NO		HOLE NO.
LOGGED BY	<b>,</b>		e Units	3 & 4 (	COL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	2 COMPL	B-6013
L. Davis		JUKL		N 1143	169.5 E 6172	234.9	3/21/200	7	3/21/2	
DRILLER	D	RILL	MAKE AND		HOLE DIAM		HAMMER SE			TOTAL DEPTH
White-MACTEC			C	ME-55	3 1	nches		331145		50.0
GROUND EL. DEPTH/EL. GROUND WATE $\frac{1}{2}$ //	ER SITE	<b>=</b> :			Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	oro, GA
					8		8		<u>,                                    </u>	
L 😅	1st 6" -7 2nd 6" O 3rd 6" -1	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTIO (* = field of laboratory) of sample b	ON AND CI classification adju- esting data and/or by field geologist/	sted based on	ION	CHARA DRILLII LABOR	R LEVELS, CTER OF NG AND ATORY
L FINES %		22							TESTIN	IG
	WOH/6"-1-1	19	251.1		SAND, with s	ilt (SP-SM	)- Yellow (1	0YR	Top of	Barnwell
SS X	1-1-1	20			SAA	ry ioose, n	onpiasuc, -H	CL	0.0 feet	t a depth of
SS 2 SS 3	1-2-1	14		5—	SAA except re	eddish yello	ow (7.5YR 7/	(6)		
SS 4	2-3-4	14	243.1_		SAA except y	ellow (2.5Y	7/6), loose			
SS 5	6-9-14	18		10-	SAND, clayey 5/6), damp, m -HCL	(SC)- Yel edium dens	llowish brow se, low plastic	n (10YR city,	Installe	d 3" steel
SS A	7-10-12	17	•••		SAA except y	ellow (2.5Y	7/6)		casing t	o a depth of
SS 7	5-3-9	14	238.1_	15-	SAND, silty, o 7/8), damp, m	clayey (SC edium dens	-SM)- Yellov se, low plastic	w (2.5Y city,		
SS 8	5-6-7	14		20-	SAA except b	rownish ye	llow (10YR (	5/8),		
SS A	4-4-6	16		25-	SAA except re	eddish yello	ow (7.5YR 7/	(6)		
SS 10	4-6-7	15		30-	SAA except re	eddish yello	ow (7.5YR 7/	(8)		
SS 11	4-4-6	13		35	SAA					
SS 12 A	4-5-6	19		40-	SAA except g	ray (10YR	5/1)			
SS 13	3-3-5	14	204.1_	45-	SAA except mand white	nottled dark	gray, reddis	h yellow,		
SS A	7-8-12	12	201.1		SAND, silty (i	<u>1 dénse, lov</u>	<u>v plasticity, -</u>	/R 5/6), HCL		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE			SITE	Vog	tle Units 3 & 4 C Final Log	OL Projec	t		HOLE NO	-6013



GE	OTECHNICAL		OJECT ogtle		3 & 4	· CC	DL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO		HOLE NO. <b>B-6013</b>
SAMP. TYPE AND NO.	☐ FINES %	N-COUNT		ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC ( * = field c laboratory t of sample b	DN AND CLASSIFICAT classification adjusted based on testing data and/or re-examination by field geologist/engineer)		NOTE WATE CHAR DRILL	S ON: R LEVELS, ACTER OF ING AND RATORY
14	20 40 00						Boring termina	ated at 50.0 feet			
				SITE	V <del>497 of</del>		e Units 3 & 4 Co Final Log	OL Project		HOLE N	no. <b>B-6013</b>



	PROJEC Vogtl	e Units	3 & 4 (	COLP	roject	JOB NO.	06-0286	SHEET NO		HOLE NO. <b>B-6014</b>
LOGGED BY		DINATES					BEGUN	1 01	COMPL	ETED
B. Sharp	DRILL	MAKE AND			E 6182		3/26/200 HAMMER SE		3/26/2 BER	2007 TOTAL DEPTH
White-MACTEC		C	ME-55	5	3 I	nches		331145		50.0
GROUND EL. DEPTH/EL. GROUND WATER $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	SITE:			Vogt	le Elect	ric Gene	erating Pl	ant - Wa	vnesbo	ro, GA
20/10 1									J 110520 0	
A N-VALUE (SPT)  O WATER CONTENT %  S puc 2  FINES %  20 40 60 80	3rd 6" 4 RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GKAPHICS BDE:	( * = field cl	ON AND CL lassification adjusting data and/or y field geologist/6	LASSIFICAT sted based on re-examination engineer)	ION		LEVELS, CTER OF IG AND ATORY
SS 2-2-2	2 18	209.6		SAN	ND, clayey	(SC) - Rec	l (10R 4/6) a moist, very	nd oose to	Top of B	Barnwell a depth of
1 SS 2 2-2-3 4-4-4			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Ioos SAA (7.5	e, fine grai A exept dar YR 4/1). lo	ned k red (10R	3/6) and da	k gray	0.0 feet	a depth of
SS 4 3-5-9	17	204.3_	5-0	CL/ yello	AY, sandy owish red (	CL)- Rec (SYR 5/8),	1 (2.5YR 4/8 moist, stiff,	 ) and low	Installed casing to 5.0 feet	3" steel a depth of
SS 5 5-6-7	7   17	199.3_	10-	//x -	-	grained SA edium grai	AND ned SAND			
SS 6 4-2-3		196.8_		fi <u>ne</u>	<u>to mediun</u>	<u>n grained _</u>	1 (2.5YR 4/8 0YR 4/1), mo	^		
SS 7 2-1-1	13	192.8_	15-	olive	T, sandy (e brown (2 plasticity,	ML)- Red .5Y 4/3), n fine to med	(2.5YR 4/8) noist, very so dium grained	and oft to soft, SAND		
SS 8 2-1-3	3 13		20-	SAN 4/2) cont hash	ND, silty (S , moist, ver ains shell	SM) - Dark ry loose to fragments a	grayish brov loose, fine g and cemented	vn (2.5Y rained, d shell		
SS 9 11-22-	30 13		25	SAA med stain	A except da ium graine ing and no	ark gray (2. ed, contains shells	5Y 4/1), vers black mang	y dense, anese		
SS 10 3-3-4	11	177.8_	30-	SAA	A except lo	ose				
SS 11 2-1-2	2 18		35-	SIL	T (ML) - E ains abund	Black (2.5Y lant organi	7 1), moist, s	oft,		
SS 12	18	167.0	40-	SAA	A except ve	ery soft to s	soft			
SS 13 4-10-2	21 13	167.8_ 162.8	45-	mois	ND, with sist, dense, fided, -HCI	ine to very	)- Gray (2.5) coarse grain	Y 6/1), ed,		
SS A 3-3-6	5 18	159.8					Pale olive (: YR 6/8), mo	5Y 6/4) st, stiff,		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vo <sub>1</sub>	Fir	s 3 & 4 CO 1al Log	OL Projec	t		HOLE NO	6014



GEOTECHNICAL LOG	PROJEC		& 4	CO	JOB NO.  OL Project 6141-06-0286	SHEET NO 2 OI	- 1	HOLE NO. <b>B-6014</b>
A ALVALUE (ODT)	•		_	GRAPHICS		2 or	NOTE WATE CHAR DRILL	B-6014 S ON: R LEVELS, ACTER OF ING AND RATORY
		SITE	Vo		Units 3 & 4 COL Project Final Log		HOLE N	B-6014



GF	ОТ	ECHNICAL LO	C	OJEC		2 2 4 6		JOB NO.	26.0206	SHEET NO		HOLE NO.
LOGGE		LOTHIOAL LO	V '		e Units	3 & 4 C	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	2 COMPL	B-6015
LOGGE	ום ט	L. Davis		OOK		N 11431	166.3 E 6193	317.9	3/21/200	7	3/21/2	
DRILLE	R	2024015	D	RILL	MAKE AND		HOLE DIAM		HAMMER SE			TOTAL DEPTH
00011		White-MACTEC			C	CME-55	31	nches		331145		50.0
GROUN 22	21.5	DEPTH/EL. GROUND WAT	TER SITI	<b>E</b> :			Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	ro, GA
		- ,							8		<u>v                                      </u>	
SAMP. TYPE AND NO.	MPLE	N-VALUE (SPT) WATER CONTENT % ATT. LIMITS %	1st 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	DESCRIPTIC  (* = field c laboratory)	ON AND CI classification adju esting data and/o by field geologist/	sted based on	ION		LEVELS, CTER OF IG AND
Š		FINES %		R			or sample t	y field geologist/	engineer)		TESTIN	
SS		20 40 60 80	WOH/6"-1-	20	221.5		SAND, with s	ilt (SP-SM	I)- Light red	(2.5YR	Top of I	Barnwell
1 SS 2 SS 3		<b>A</b>	4-6-10	15	220.0_		6/8), damp, lo SAND, silty (damp, medium	ose, nonpla SM)- Ligh n dense, no	istic, -HCL t red (2.5YR nplastic, -HC	6/8), L	Group a 0.0 feet	t a depth of
SS 3			3-3-5	11		5-	SAA except re loose	eddish brov	vn (2.5YR 5/-	4), moist,		
SS 4			2-3-3	12			SAA except re	eddish yello	ow (5YR 6/8)	)		
SS 5			2-2-4	11	211.0	10-	SAA except y	ellowish re	d (5YR 5/6)		Installed	l 3" steel
SS 6	X	<b>A</b>	4-7-9	12	208.5	-	SAND, with s red (5YR 5/8) plasticity, -HC	ilty clay (S , moist, me	SP-SC)- Yell dium dense,	owish low	casing to	o a depth of
SS 7	X	<b>A</b>	8-8-9	14		15	SAND, silty, (5YR 5/8), mo		-SM)- Yellov n dense, low	wish red plasticity,		
					204.5_		-HCL					
SS 8		<b>A</b>	6-7-8	12	199.5	20-	SAND, with s red (5YR 5/8) plasticity, -HC	ilty clay (S , moist, me L	SP-SC)- Yellodium dense,	owish low		
SS 9	X	<b>A</b>	2-7-9	18	197.5_ 197.5_	25	CLAY (CL)- stiff, low plast SAND, silty, yellow (5YR plasticity, -HC	Yellow (10 icity, -HCI clayey (SC 7/6), moist,	OYR 7/8), mo -SM)- Reddi medium den	oist, very sh se, low		
SS 10	<b>A</b>		4-4-5	16		30-	SAND, clayey moist, loose, I					
					189.5_							
SS 11			1-3-4	18		35-	CLAY (CL)- moist, loose, r	Very pale nedium pla	brown (10YF sticity, -HCL	R 8/4),		
SS 12			2-3-3	16	184.5_	40-	SAND, silty, 6 7/6), moist, lo	clayey (SC ose, low pl	-SM)- Yellov asticity, -HC	w (10YR L		
SS 13	X	<b>A</b>	1-2-21	16	179.5_ 175.5_	45	CLAY (CH)- moist, very sti -HCL	Very pale ff, medium	brown (10YI) to high plass	R 7/3), cicity,		
SS			3-5-4	11	171.5	-// -//	SAND, clayey moist, loose, I	(SC) - Pal ow plastici	e yellow (2.5 ty, +HCL	Y 7/4),		
		Y: A. TAYLOR Y: P. DEPREE			SITE	Vog	tle Units 3 & 4 C Final Log	OL Projec			HOLE NO	-6015
/ XL VIL V	, L D D	DEI NEL			<u> </u>	500 of 72		<del>-</del>				JU1J



GEO	OTECHNICAL		OJECT ogtle U	Units 3 &	2 4 C	JOB NO.  OL Project 6141-06-0286	SHEET NO 2 OF	
SAMP. TYPE AND NO. SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT  + ATT. LIMITS %  □ FINES %	N-COUNT		Units 3 &		DESCRIPTION AND CLASSIFICAT  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)  Boring terminated at 50.0 feet	2 OF	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
			S	SITE	Vogt	le Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-6015</b>



	ROJEC		2 % 4 64	OI Duoinat	JOB NO.	0.000	SHEET NO		
		DINATES	3 & 4 C	OL Project	0141-0	06-0286 BEGUN	<b>1</b> OF	2 B-6 COMPLETED	018
B. Sharp			N 11429			3/26/200		3/26/2007	
DRILLER White-MACTEC	DRILL	MAKE AND	ME-55	HOLE DIAM	nches	HAMMER SE	RIAL NUMB 331145		L DEPTH $60.0$
GROUND EL. DEPTH/EL. GROUND WATER SI	ITE:		1,122 00					<u> </u>	
204.7 💆 /				Vogtle Elect	ric Gene	erating Pla	ant - Wa	ynesboro, G	<del>S</del> A
A N-VALUE (SPT)  O WATER CONTENT %  Supplementaries of the content	RECOVERY (in)	ELEVATION IN FEET 204.7	DEPTH IN FT GRAPHICS	DESCRIPTIC (* = field c laboratory t of sample b	DN AND CL lassification adju- esting data and/or y field geologist/o	sted based on	ION	NOTES ON: WATER LEVE CHARACTER DRILLING AN LABORATOR TESTING	OF D
SS 1 WOH/12	"-1 18	203.2		SAND, with c (5YR 4/6) and	lay (SP-SC	C)- Yellowish	red 2 4/2)	Top of Barnwe Group at a dep	ell oth of
SS 2 8S 2-2-3	1-1 15	203.2_	-1111 -1111	moist, very loc organics SAND, silty (S moist, very loc	SM)- Yello Se, fine gr	ained, contain	ns /	0.0 feet	WII OI
3 SS A 2-3-4	14		5—	SAA except lo	oose				
SS X 4-4-4	14		-111	SAA except fi	ne to medi	um grained			
SS 4-5-6	13		10-	SAA except m	edium den	se		Installed 4" ste casing to a dep 10.0 feet	eel oth of
SS 7	14		15-	SAA					
SS 8 5-5-6	12.5		20-	SAA except m	icaceous				
SS 9 4-5-5	14.5		25-	SAA except by to medium der	rownish yel	llow (10YR 6	6/8), loose		
SS 10 A 3-2-4	15	172.7	30-	SAA except yo	ellowish br	own (10YR :	5/8), loose		
SS 11 UD 1 3-2-5	18	169.4_	35	CLAY (CL) - yellowish brov stiff, low to m lenses, -HCL SILT, with sa	edium plasi	ticity, contain	is SAND/1	Direct Push	
SS 12 A 3-4-5	18	166.7_	40-	medium plasti Pocket Penetre SAND, silty (8 6/8), moist, lockaolinitic CLA	city, fine grown and series 1.5	rained SAND TSF vnish vellow	(100 B ] [		
SS 13 UD 2-2-2	18	162.7_ 159.4_	45-	SILT (MH) - to medium stif contains SAN SILT, sandy (grained	f, medium D lenses, -I <b>ML)</b> - Yell	to high plast <u>ICL</u> ow, fine to n	icity,	Direct Push	
SS 2-4-5	18	156.7_ 154.7	<del>                                      </del>	SILT, with sa moist, stiff, lov			5Y 7/3),		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vogtl	e Units 3 & 4 Co Final Log	OL Projec		11110	HOLE NO. <b>B-60</b>	18



GEOTECHNICAL LOG	PROJECT  Vogtle Units	3 & 4 COL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO.  2 OF 2	HOLE NO. <b>B-6018</b>
	2nd 6" S 3rd 6" Z 3rd 6" Z 1 RECOVERY (in)	TA B (* = field laboratory of sample)	ON AND CLASSIFICAT classification adjusted based on testing data and/or re-examination by field geologist/engineer )	TION CH DF LA	OTES ON: ATER LEVELS, HARACTER OF RILLING AND BORATORY ESTING
14		Boring termin	D, -HCL lated at 50.0 feet		
	SITE	Vogtle Units 3 & 4 C Final Lo	OL Project	но	LE NO. <b>B-6018</b>



GFOT	ECHNICAL LO	2	OJEC		•	. ~.		JOB NO.	26.006	SHEET NO		HOLE NO.
LOGGED BY	LOTHIOAL LO	•		e Units	3 & 4	CO	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	2 COMPL	B-6019
LOGGED BT	S. Woodham		OOK		N 114	1213	32.7 E 6183	344.5	3/28/200	7	3/28/2	
DRILLER	2V 11 0 0 0 11 11 11 11 11 11 11 11 11 11	D	RILL	MAKE AND			HOLE DIAM		HAMMER SE			TOTAL DEPTH
00011110 51	White-MACTEC	- loiz		C	ME-	55_	4 I	nches		331145		50.0
GROUND EL <b>163.9</b>	. DEPTH/EL. GROUND WAT  ☑ / ▼ /	ER SITI	<b>=</b> :				Vogtle Elect	ric Gene	erating Pl	ant - Wa	vnesbo	oro, GA
	<del> </del>										<u> </u>	
SAMP. TYPE AND NO. SAMPLE	N-VALUE (SPT)  WATER CONTENT %  ATT. LIMITS %  FINES %	1st 6" - <del>7</del> 2nd 6" O 3rd 6" <del>-</del> 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory t of sample b	ON AND CL lassification adjusesting data and/or y field geologist/o	sted based on	ION	CHARA	R LEVELS, CTER OF NG AND ATORY
SS V	20 40 60 80	2-1-2	18	163.9	_		SAND, with s	ilt (SP-SM	)- Yellowish	brown	Top of	Barnwell
l 1 ∐⊾		1-1-2	18		-		(10YR 5/6), da SAA	amp, very l	oose, fine gr	ained	Group a 0.0 feet	t a depth of
SS Z SS Z	<b>\</b>	2-4-6	13	160.7_	-		CIAV sandy				Installe	d 4" steel
UD 1			24		5-		CLAY, sandy 5/8), damp, sti SAA	ff, low plas	sticity	) I K	casing t 3.5 feet Direct F	o a depth of
SS 4	<b>A</b>	3-5-6	18	156.2_	10-		SAND, clayey 5/8), damp, mo	(SC)- Yel	llowish red (se, fine grains	SYR ed		
$\begin{bmatrix} SS \\ 5 \end{bmatrix} $		3-2-5	16	150.0	-		SAA except be	rownish ye	llow (10YR o	6/6), loose		
ss 🗸 🗖	<b>\</b>	2-4-5	16	150.9_	-		CLAY, with s	and (CL)-	Yellow (2.5	 Y 8/6).		
6			26		15-		damp, stiff, lo	w plasticity		,,	Direct F	ah
UD 2			20	145.0	-		SAA				Directi	rusii
SS 7		2-3-3	17	145.9_	20-		<b>SAND, with c</b> 7/8), damp, loo	lay (SP-SC)	 C)- Yellow (2 ained	2.5Y		
SS X	,	3-3-5	18	141.9_ 136.9_	25-		SAND, clayey damp, loose, f	(SC)-Yel ine grained	llow (2.5Y 7/	(6),		
SS A		3-4-4	16		30-		SAND, silty (s	SM)- Pale ine grained	yellow (2.5Y	7/4),		
SS 10		2-3-3	18	131.9_	35-		SAND, clayey damp, loose, f	(SC)- Yel ine grained	llow (2.5Y 7/	(6),		
SS 11		3-3-3	18		40-		SAND, with s 8/3), moist, loo	ilt (SP-SM	)- Pale yello ained	w (5Y		
SS 12		2-2-2	18		45 —		SAA except co	ontains CL	AY seams			
ss 🗸	<b>A</b>	7-8-11	7	113.9	- -		SAA except pa	ale yellow (	(5Y 8/2), me			
	BY: A. TAYLOR			SITE	V	ogtl	e Units 3 & 4 Co Final Log	OL Projec			HOLE NO	-6019
INEVIEWED E	BY: P. DEPREE				504 of	<del>724</del>		<u> </u>			D	-001/



GEC	OTECHNICAL	DJECT Ogtle Units	3 & 4 (	JOB NO. 6141-06-0286	SHEET NO	
SAMP. TYPE AND NO. SAMPLE	TECHNICAL  ▲ N-VALUE (SPT)  ○ WATER CONTENT  + ATT. LIMITS %  □ FINES %		3 & 4 C	COL Project 6141-06-0286	<b>2</b> OF	
		SITE	Vog	tle Units 3 & 4 COL Project Final Log		HOLE NO. <b>B-6019</b>



GE	ΞΟ	TECHNICAL LO	<u>-</u>	OJEC		204		OI Davidad	JOB NO.	VC 020C	SHEET NO		HOLE NO.
LOGG			V 1		DINATES	3 & 4	C	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	B-6020 ETED
		S. Woodham				N 114				3/28/200		4/2/2	
DRILL	ER	White-MACTEC	D	RILL	MAKE AND			HOLE DIAM		HAMMER SE	ERIAL NUMB <b>331145</b>	ER	130.0
GROU	ND	EL. DEPTH/EL. GROUND WAT	ER SITI	E:		CME-	33	4 1	nches		331145		130.0
2	21	.5 💆 /						Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	ro, GA
		A ALVALUE (ODT)											
J₽ .	ш	▲ N-VALUE (SPT)	N-COUNT	Y (in	NO P	I FT	SS					NOTES	
- G	SAMPLE	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	VER	/ATI FEE	님	GRAPHICS	DESCRIPTIO			ION	CHARA	LEVELS, CTER OF
SAMP. TYPE AND NO.	SA	+ ATT. LIMITS %		RECOVERY (in)	ELEVATION IN FEET	DEPTH IN	GR/	( * = field c laboratory t of sample b	lassification adju- esting data and/or y field geologist/o	re-examination engineer)		DRILLIN LABOR	ATORY
"		☐ FINES %		2	221.5	]						TESTIN	G
SS	M	^	4-5-5	16	220.0		$\bowtie$	<b>SAND, with s</b> (5YR 5/8), dar	ilt (SP-SM	)- Yellowish	red	Top of I	Fill at a depth eet.
1 SS 2 SS 3	M	▲ =+	5-5-5	18	218.5	-		SAND, clayey 5/6) to red (10 fine to medium	(SC)- Yel	lowish red (	5YR	01 0.0 10	Ci.
SS SS	A	<b>A</b>	3-6-8	14	210.5_	-		fine to medium	n grained ilt (SP-SM	)- Weak red	(TOR	Top of I Group a	Barnwell t a depth of
						5-		SAND, with s 4/3), damp, mo			ed	Installed	t a depth of l 4" steel
SS 4	X		10-11-11	14		-		SAA except re	ed (2.5YR 5	5/8)		casing to 5.0 feet.	o a depth of
SS 5	X	<b>A</b>	2-2-4	16	211.0	10-		SAA except lo	oose				
SS 6	X	<b>A</b> +	3-5-4	14	_11.0_	-		* <b>SAND, claye</b> (10YR 5/6), da	ey (SC)- Yo amp, loose,	ellowish broy	wn		
SS	$\square$	<b>A</b>	5-4-5	14		-		SAA	• • • • • • • • • • • • • • • • • • • •	Č			
7	A					15-							
					204.5_	-							
SS	$\mathbb{H}$	<b>A</b>	9-14-20	16		-		SAND, with s	ilt (SP-SM	)- Verv dark	grav		
8	A					20-		(2.5Y 3/1), dar	mp, very de	ense, fine gra	ined		
						-							
SS	$\mathbb{H}$	<b>A</b>	2-4-3	8		-		SAA except ye	ellowish br	own (10YR	5/4) loose		
9	A					25-		Si ii i encope y	0110 11 1011 01	0 111 (10 111)	o, 1), 1005 <b>c</b>		
						-							
SS	$\mathbb{H}$	<b>A</b>	3-5-7	7		-		SAA except st	rong brown	ı (7 5VR 5/6	) medium		
10	Å					30-		dense	rong brown	1 (7.5 1 10 5/0	), incarain		
						- -							
SS		<b>A</b>	7-10-15	8		<u>-</u>		SAA except vo	e]]ow (10V	R 7/8)			
11	Å					35-		эли схеері у	onow (101	107			
					184.5_	-	Ш						
SS		<b>A</b>	6-7-10	7		-		CAND with a	ilty alov (S	P-SC\- Brox	wnich		
12	A		2,10			40-		SAND, with s yellow (10YR	6/6), medi	um dense, fii	ne grained		
					179.5_	-							
00		<b>A</b>	9-15-14	7		-		CAND	:14 (CD CD4	) I jabt -1:	o brosse		
SS 13	Д		7 13-14			45 —		<b>SAND, with s</b> (2.5Y 5/6), me	edium dens	e, fine graine	ed	Water la	evel depth at
					174.5_	-						end of 3 of casin	/28/07 = Top
99		▲ □ + <u>111</u>	3-3-4	18		-		*CAND "14	(CIMD OI)	va vallar (2	5V 616)	Water le	evel denth at
SS	M ABC	<u> </u>	±-€-€	10	SITE	¥7		*SAND, silty damp, loose, lo	ów plasticit	y, -HCL	ο r σ/σ),	beginnin	ng of 3/29/07
		D BY: A. TAYLOR D BY: P. DEPREE						e Units 3 & 4 Co Final Log		ı			-6020
-					•	506 of	724						



GE	OTECHNICAL LO	~	OJEC ogtl		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 OF	
SAMP. TYPE AND NO.	○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" -z 2nd 6" O 3rd 6" z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 UD 1	20 40 60 80		22.5		-		SAA Pocket Penetrometer: 1.0 TSF	= 45.0 feet Direct Push
SS 15	<b>A</b>	2-3-3	18		55-		SAA except pale olive (5Y 6/3)	
SS 16 UD	▲ □ ○ + -139	2-3-5	18		60-		SAA except olive yellow (2.5Y 6/6) SAA	Direct Push
2					-		Pocket Penetrometer: 1.5 TSF	Direct Fusii
SS 17	1	1-2-4	18		65		SAA except pale yellow (5Y 8/3)	
SS 18	<b>^</b>	3-5-7	16	154.5_	70—		SAND, silty, clayey (SC-SM)- Yellow (5Y 7/8), damp, medium dense, fine grained, -HCL	
SS 19	<b>^</b>	2-3-3	18		75—		SAA except yellow (5Y 7/8) and yellowish brown (10YR 5/6)	
SS 20	<b>A</b>	3-4-7	14	144.5_	80-		SAND, clayey (SC)- Pale yellow (5Y 8/2), moist, medium dense, fine to coarse grained, contains shell fragments, +HCL	Changed to a 2 7/8" drill bit.
SS 21		10-10-13	16		85 <del>-</del>		SAA	
SS 22	<b>A</b>	5-9-16	18		90-		SAA except damp	
SS 23	<b>A</b>	7-7-4	15		95-		SAA	
SS 24	<b>A</b>	6-10-10	5	124.5_	100-		SAND, with silt (SP-SM)- Yellow (5Y 8/6), moist, medium dense, fine to medium grained, +HCL	
SS 25	<b>A</b>	14-19-22			105		SAA except yellow (10YR 7/6)	
				114.5_ SITE	V	ogtl	e Units 3 & 4 COL Project	HOLE NO. <b>B-6020</b>
					507 of		Final Log	D-0020



GE		TECHNICAL LO	<u> </u>	OJE(		3 & 4	C C		ET NO.	3 HOLE NO. B-6020
SAMP. TYPE AND NO.	SAMPLE	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6"	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	<b>A</b>	10-8-9	10	109.5	110-		SAND (SP) - Yellow (10YR 7/6), moist, medium dense, fine to medium grained, contains thin CLAY seams		Loss of circulation at
SS 27	×		50/4"	4	109.5_	- - 115—		SAND, with clay and gravel (SP-SC). Pal yellow (2.5Y 8/3), damp, very dense, fine t coarse grained, contains shell fragments, +1	le to HCL	Loss of circulation at a depth of 111.0 feet Top of Utley Limestone at a depth of 112.0 feet
SS 28	X		3-3-50/3"	12	99.5	120-		SAA		Water level depth at end of 3/29/07 =
SS 29	X		3-19-50/5.5	"17.5	77.5_	125—	-	SILT (ML) - Dark greenish gray (GLEY1 4/5GY), damp, hard, contains trace shell fragments and cementation, +HCL		Borehole dry Top of Blue Bluff Marl at a depth of 122.0 feet Water level depth at beginning of 4/2/07 = 110.0 feet Installed 3" steel casing to a depth of 123.5 feet.
SS 30	X	<b>A</b>	8-32-24	18	91.5_	130-	-	SAA except contains less cementation  Boring terminated at 130 feet		Installed 3 steel casing to a depth of 123.5 feet. Changed to a 2 7/8" drill bit.
					SITE	V	ogtl	e Units 3 & 4 COL Project		HOLE NO.
						508 of	_	Final Log		B-6020



GE	=(	OTECHNICAL LOG	<u> </u>	OJEC		2.0.4.64	OI D : 4	JOB NO.	0206	SHEET NO		HOLE NO.
LOGG			Ψ,		DINATES	3 & 4 CC	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPL	B-6021 ETED
		B. Sharp		00.1		N 114218	85.7 E 6191	03.4	4/3/200	7	4/4/2	
DRILL	ER		D	RILL	MAKE AND		HOLE DIAM		HAMMER SE			TOTAL DEPTH
		White-MACTEC			C	CME-55	4 1	nches		331145		120.0
GROU 2		DEPTH/EL. GROUND WATH	ER SITI	E:			Vogtle Elect	ric Gene	erating Pl	ant - Wa	ynesbo	ro, GA
SAMP. TYPE AND NO.	ļ.,	▲ N-VALUE (SPT)	N-COUNT	RECOVERY (in)	Z_	E S					NOTES	
≿9	딢	O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	ERY	ATIC EET	를 말	DESCRIPTION		ASSIEICAT	ION		LEVELS, CTER OF
A P	SAMPLE	+ ATT. LIMITS %	15 12 31	δ	ELEVATION IN FEET	DEPTH IN F'GRAPHICS	( * = field c	lassification adju	sted based on	ION	DRILLIN	NG AND
s'		☐ FINES %		REC	田	DE	of sample b	esting data and/or y field geologist/	engineer)		LABOR. TESTIN	
		20 40 60 80			209.8							
SS 1	X		5-8-10	9	208.3_	-11	SAND, silty (	<b>SM)</b> - Red ( (5YR 5/8),	(5YR 5/8) an moist, medit	d um dense, _	Top of I Group a	Barnwell t a depth of
SS 2 SS	X		8-9-10	18	206.6		Tine grained			/ 1	0.0 feet	•
SS	$\nabla$	<b>A</b>	8-12-12	13	200.0_		SAND, clavey 5/8) and red (2 fine to medium SAND, with s dark gray (5Y to medium gra	2.5YR 5/8), a grained	moist, medi	um dense/		
3					204.3_	5-	SAND, with s	ilt (SP-SM 4/1) moist	)- Olive (5Y medium de	5/4) and		l 4" steel
SS	X	<b>▲</b> <del>  </del>	5-6-8	13			to medium gra	ined (SC)- Dat	k red (10R 3	5/6) and	casing to 5.0 feet.	o a depth of
4						-///	SAND, clayey weak red (10R grained	4/3), mois	t, medium de	ense, fine		
SS 5	X		5-7-11	16		10-	SAA except so	ome yellow	rish red (5YR	2 5/8)		
SS		<b>A</b>	3-5-6	15	107.0	10 ///	SAA except re	od (2 5VR /	1/8)			
6	X				197.8_		SAA CACCPI IC	<u>u (2.51 K</u> -				
SS		<b>▲</b> : +□ : +	3-4-5	13			*SAND, silty 5/8), moist, lo	(SM)- Yel	lowish red (5	YR		
7						15	5/8), moist, fo	ose, fine to	medium gra	ined		
SS 8	X		3-4-4	13		20-	SAA except co	ontains son	ne cementation	on		
						207						
						- 11						
SS			8-13-15	14			SAA except li	ght olive b	rown (2.5Y 5	5/4) and		
9	$\wedge$					25	SAA except li yellowish red	(5YR 5/8),	medium den	se		
					182.8_		L					
SS 10	X		4-4-4	14		20 1//	SAND, clayey 5/8) and red (1	( <b>SC</b> )- Yel 0R 3/4), m	llowish red (:	5YR ine		
						30-//	grained		,			
					177.8_		<del> </del> -					
SS		<b>A</b>	6-10-13	13			SAND, silty () medium dense	SM)- Dark	red (10R 3/6	6), moist.		
11	Α					35-	medium dense	, fine to me	edium graine	ď		
					172.8_		L					
SS 12	X		3-6-8	8		40-	<b>SAND, with s</b> 3/6), red (2.5 Y	<b>ilt (SP-SM</b> R 4/8 & 5/	)- Dark red ( 8), and stron	10R g brown		
						407	(7.5YR 5/6), n medium grain	noist, medi	um dense, fii	ñe to		
					167.8_							
SS		<b>A</b>	4-3-4	10			SAND, clavev	(SC)- Stro	ong brown (7	.5YR		
13	Λ					45-//	SAND, clayey 5/8), moist, lo	ose, fine to	medium gra	ined		
					162.8_							
SS	X		3-4-5	9			SAND, silty ( moist, loose, f	SM) - Dark ine to medi	gray (7.5YR um grained	4/1),		
		ED BY: A. TAYLOR			SITE	Vogtl	e Units 3 & 4 C	OL Projec			HOLE NO	
REVIE	WE	ED BY: P. DEPREE				509 of 724	Final Log	<u> </u>			B.	-6021



GEOTECHNIC	CALLAC	ogtl		3 & 4	C	JOB NO. SHEET NO.  OL Project 6141-06-0286 2 OF	
AN-VALUE (SO WATER CO) WAT	1st 6" % LNALLN 3rd 6" 1900 3	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14 SS 15	2-2-3	6	1500	55—		SAA except dark grayish brown (10YR 4/2) to brown (10YR 4/3), medium grained	
SS 16	2-3-5	16	152.8_ 147.8_	60-		SAND, clayey (SC)- Yellowish brown (10YR 5/8) and yellowish red (5YR 5/6), moist, loose, medium grained	
SS X	16-16-20	13	142.8_	65 —	777	SAND, silty (SM)- Strong brown (7.5YR 5/8), moist, dense, medium grained	
SS 18 \( \bigs \)	4-4-5	15	137.8_	70-		SAND, clayey (SC) - Yellowish brown (10YR 5/8), yellowish red (5YR 5/8), light yellowish brown (2.5Y 6/4), and gray (2.5Y 6/1), moist, loose, medium to coarse grained	
SS 19 UD 1	2-2-3	18	131.8_	75 —		SILT, with sand (ML)- Yellowish brown (10YR 5/8), pale yellow (5Y 7/4), and reddish yellow (7.5YR 6/8), moist, medium stiff, nonplastic to low plasticity, very fine to fine grained SAND, -HCL SAA except pale yellow (5Y 7/4) and reddish yellow (7.5YR 6/8)  Pocket Penetrometer: 2.75 TSF  SILT, sandy (ML)- Pale yellow (5Y 7/4), moist, soft to medium stiff, nonplastic to low plasticity, very fine to fine grained SAND.	Direct Push Reamed hole to a
SS Z	2-2-2	18	127.8_	80-		-HCL	depth of 75.5 feet using a 3 7/8" drill bit. Resumed drilling with the 2 7/8" drill bit.
SS 21	5-7-8	12	122.8_	85 — -		SAND, with silt (SP-SM)- Pale yellow (2.5Y 7/3), moist, medium dense, medium grained, -HCL	
SS Z	5-9-12	12		90- - - -		SAND, silty (SM)- Pale yellow (5Y 7/3), moist, medium dense, fine to medium grained, -HCL	Water level depth at end of 4/3/07 = 10.0 feet  Water level depth at
SS Z	4-5-10	0	112.8_	95 <del>-</del> -		SAA except, wet	beginning of 4/4/07 = 45.0 feet  Top of Utley Limestone at a depth of 97.0 feet
SS 24			107.8_	100-		NO RECOVERY	or 97.0 feet
SS 25	50/1.5"	1	SITE	105—		SAND, silty (SM)- Pale yellow (2.5Y 8/3), wet, very dense, contains very coarse shell fragments and abundant cementation, +HCL e Units 3 & 4 COL Project	Loss of circulation at HOLE NO.
				V	ugti	Final Log	B-6021



GE		TECHNICAL LOC	•	OJE(		204		JOB NO. SHEET NO	
SAMP. TYPE AND NO.		▲ N-VALUE (SPT)	1st 6" - z 2nd 6" O 3rd 6" - z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 26	X	20 40 60 80	10-6-8		101.1_	110-		SAA SILT (ML) - Pale olive (5Y 6/4), damp to moist, nonplastic to low plasticity, contains trace shell fragments and olive yellow (5Y 6/8) SAND lenses, +HCL	a depth of 106.0 feet  Installed 3" steel casing to a depth of 113.0 feet
SS 27	X	<b>A</b>	12-17-37	18	96.8_	115-		CLAY, silty (CL-ML)- Dark greenish gray (GLEY1 4/10Y), damp, hard, low plasticity, +HCL	Top of Blue Bluff Marl at a depth of 113.0 feet
SS 28		<b>A</b>	12-17-17	18	89.8_	120-		SAA except contains abundant shell fragments  Boring terminated at 120 feet	
					SITE	v	ogtl	e Units 3 & 4 COL Project	HOLE NO.
						511 of		Final Log	B-6021



	PROJEC Vogtl		3 & 4 CO	OL Project	JOB NO. <b>6141-0</b>	6-0286	SHEET NO.	
LOGGED BY		DINATES				BEGUN	1 01	COMPLETED
B. Sharp  DRILLER	DRILL	MAKE AND		24.8 E 6200 HOLE DIAME		4/9/200' HAMMER SE		<b>4/9/2007</b> ER   TOTAL DEPTH
White-MACTEC		C	ME-55	4 I	nches	(	331145	90.0
GROUND EL. DEPTH/EL. GROUND WATER $\begin{array}{ c c c c c c c c c c c c c c c c c c c$	SITE:			Vogtle Electi	ric Gene	rating Pl	ant - Way	ynesboro, GA
1 1				Ogire Erece		<u>- wvg</u>	<u> </u>	, 110000010, 011
SAMP TYPE SAMP T	3rd 6" 4 RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIO (* = field cl laboratory te of sample by	N AND CL assification adjus sting data and/or field geologist/e	ted based on		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 20 40 60 80 6-6-4	18	216.2 215.4_		GRAVEL, wit	h sand (G	P)- Light bro	ownish	Top of Fill at a depth of 0.0 feet
1 SS 2 6-19-2 SS 3 8-13-1		214.7-	5-	contains organi SAND, clayey to moist, loose SAND, with si (7.5YR 4/6), m	(SC) - Red to medium	(2.5YR 4/8) dense, fine	, damp	
SS 4 4-5-5	11	210.7_		SAA except mo SAND (SP) - S moist, loose to	edium dens trong brow medium de	n (7.5YR 5/ense	8),	Installed 4" steel casing to a depth of 5.0 feet.
SS 5 3-4-4	9	205.7_	10-	SAA except str yellowish brow medium graine	d			Ton of Pornwall
SS 6 4-7-1				SAND, clayey 5/8), yellowish (10YR 5/1), mo medium graine	(SC) - Yell red (5YR pist, mediu	lowish brown 5/8), and trac m dense, find	n (10YR ce gray e to	Top of Barnwell Group at a depth of 10.5 feet
SS 7 6-10-1	.1 13		15-	SAA except red	Ĭ (2.5YR 4	/8), fine grai	ned	
SS 8 8-12-1	.3 15	194.2_	20-	SAA except red yellow (10YR)	d (2.5YR 4 6/8), mediu	/8) and brow am grained	rnish	
SS 9 10-16-2	20 9	189.2_	25—	SAND, with si (5YR 6/6), more grained, contain	It (SP-SM st, dense, i ns black m	)- Reddish yo nedium to co anganese sta	ellow parse ining	
SS 10 6-7-8	3 11		30-	SAND, silty (S 6/8) and yellow medium dense, seams, -HCL	M)- Brow vish red (5) fine grains	nish yellow ( YR 5/8), moi ed, contains (	(10YR st, CLAY	
SS 11 4-4-6	5 10		35-	SAA except lig fine to medium	th yellowis grained, s	sh brown (2 lightly micad	5Y 6/4), seous	
SS 12 UD 1 3-4-5	15 21	176.0_	40-	SAA except of plasticity, very manganese star SILT, with sar 6/6), moist, still granged SAM	ve yellow fine graine ning id (ML)-0 f, low plas	(2.5Y 6/6), led, contains l	oose, low black (2.5Y	Direct Push
SS 13 6-4-5	15	173.2_	45	grained SAND Pocket Penetro *SAND, clayer (10YR 5/8), me plasticity, conta seams, -HCL	meter: 1.5 y <b>(SC)</b> - Ye	TSF Howish brow o medium d	vn	
SS A D 9+ 3-4-5	15			SAA except ol				
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vogtl	e Units 3 & 4 CC Final Log		:		HOLE NO. <b>B-6022</b>



GEOTECHNICAL LOG	PROJ Vog		3 & 4 C	OL Project   JOB NO.   SHEET NO.   SHEET NO.   2 OH						
A N-VALUE (SPT)  O WATER CONTENT %  O WATER CONTENT %  FINES %  20 40 60 80	2nd 6" CO 3rd 6" T	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING					
14 UD 2 SS 15	3-5-8 1		55	SAA Pocket Penetrometer: 1.25 TSF  SAA except medium grained	Direct Push					
SS 16	4-4-4 1	159.2_	55 - 60 -	SAND, silty (SM)- Olive yellow (2.5Y 6/8), moist, loose, fine to medium grained, -HCL	-					
SS 17 A	5-4-6	154.2_	65-	SILT, sandy (ML)- Olive yellow (2.5Y 6/8), moist, stiff, low plasticity, fine to medium grained SAND, contains shell fragments						
SS 18 A	2-3-3 1.	1.47.0	70-	SAND, silty (SM)- Yellow (5Y 7/6), moist, loose, medium to coarse grained SILT, sandy (ML)- Yellow (5Y 7/6), moist, medium stiff, low plasticity, fine grained SAND, -HCL	Changed to a 2 7/8" drill bit.					
SS 19 A	3-3-3 1	139.2_	75 —	SAND, silty (SM)- Pale yellow (2.5Y 7/4), moist, loose, medium grained, contains trace shell fragments	Loss of circulation at a depth of 75.0 feet					
SS ZO W	/OH/12"-2 1	136.4_ 134.2_	80	SILT (ML) - Olive brown (2.5Y 4/4), moist to wet, very soft, nonplastic, contains cemented shell fragments, -HCL  SAND, silty (SM) - Pale yellow (2.5Y 8/2), contains cemented shell fragments	Top of Blue Bluff					
SS 21	10-20-43 1	3	85 —	SILT (ML) - Dark greenish gray (GLEY1 4/10Y), damp, hard, nonplastic to low plasticity, contains cementation, +HCL	Marl at a depth of 82.0 feet Installed 3" steel casing to a depth of 83.5 feet. Water level depth at end of 4/9/07 = 10.0					
SS Z2	9-25-23 1	126.2_	90	SAA except less cementation  Boring terminated at a depth of 90 feet	feet Water level depth at beginning of 4/10/07 = 50.0 feet					
		SITE	Vogtl	le Units 3 & 4 COL Project	HOLE NO.					
Vogtle Units 3 & 4 COL Project Final Log										



B. Sharp	,
B. Sharp	2007   TOTAL DEPTH   50.0   oro, GA
DRILLER  White-MACTEC  GROUND EL.  DEPTH/EL. GROUND WATER  202.8  ▼ / Vogtle Electric Generating Plant - Waynesbe	50.0 oro, GA
GROUND EL. DEPTH/EL. GROUND WATER SITE:  202.8  Vogtle Electric Generating Plant - Waynesberg    Vogtle Electric Generating Plant - Way	oro, GA
202.8 ₹ / Vogtle Electric Generating Plant - Waynesbe	,
	,
A N.VALUE (CDT)	
WATER CONTENT %  WATER CONTENT %  Solution of sample by field geologist/engineer)  NOTES WATER CONTENT %  Solution of sample by field geologist/engineer)  NOTES WATER CONTENT %  Solution of sample by field geologist/engineer)  NOTES WATER CHARACTER CHARACT	R LEVELS, ACTER OF ING AND RATORY
SS SAND (SP) - Strong brown (7.5YR 5/8), Top of	Fill at a depth
1 SS 2 damp, moist, very loose, fine to medium grained, contains organics SAA 199.5	feet
$\begin{vmatrix} 3 \end{vmatrix} $ damp to moist, very loose, line to medium	ed 4" steel
SS 4 SAND, clayey (SC) - Red (2.5YR 4/8), damp to moist, loose, fine to medium grained casing 10.0 fe	to a depth of et.
SS 5 SAND, clayey (SC)- Yellowish red (5YR Group 5/8), damp to moist, loose, fine grained Top of Group 8.5 feet	Barnwell at a depth of t
SS 6 6-7-8 11 SAA except medium dense, fine to coarse grained	
SS 7 SAA except fine to medium grained	
185.8	
SS 8  9-11-11 13  9-11-11 13  SAND, silty (SM)- Yellowish red (5YR 5/8) and brownish yellow (10YR 6/8), moist, medium dense, medium to coarse grained end of Ground Ground State (STR 5/8) and brownish yellow (10YR 6/8), moist, medium dense, medium to coarse grained end of Ground State (STR 5/8) and brownish yellow (10YR 6/8), moist, medium dense, medium to coarse grained end of Ground State (STR 5/8) and brownish yellow (10YR 6/8), moist, medium dense, medium to coarse grained end of Ground State (STR 5/8) and brownish yellow (10YR 6/8).	level depth at 4/4/07 = d surface
Water	level depth at ing of 4/5/07 =
SS SAND, silty (SM)- Yellow (10YR 7/8),	
UD 1 SAA Pocket Penetrometer: 4.5 TSF Change 7/8" to bit. Direct	ed from a 2 a 3 7/8" drill
SS 11 SAA except medium grained 35 – 11 SAA except medium grained	
165.8	
SS 12 SILT, sandy (ML)- Pale yellow (2.5Y 7/4) and yellowish brown (10YR 5/8), moist,	
UD 2 medium stiff to stiff, nonplastic to low plasticity, contains shell fragments and fine grained SAND lenses, -HCL	Push
SS 13 Pocket Penetrometer: 1.5 TSF SAND, silty (SM)- Yellow (10YR 7/8), moist, medium dense, medium to coarse grained, -HCL	
SS SILT, sandy (ML)- Yellow (2.5Y 7/6), moist, medium stiff, fine to medium grained,	
PREPARED BY: A. TAYLOR SITE Vogtle Units 3 & 4 COL Project HOLE N.	
REVIEWED BY: P. DEPREE Final Log  514 of 724	3-6023



GEOTECHNICAL LOG	PROJEC		& 4	CC	JOB NO. SHEET   SHEET   6141-06-0286 2	NO. OF <b>2</b>	HOLE NO. <b>B-6023</b>
FINES % + ATT. LIMITS %	2nd 6" S 3rd 6" Z RECOVERY (in)	ELEVATION IN FEET	_	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NO W. CH DF LA	DTES ON: ATER LEVELS, HARACTER OF RILLING AND BORATORY
TINES % 20 40 60 80	RECC	ELE IN THE PROPERTY OF THE PRO	DEP	GR	horning testing data and/or re-evamination of sample by field geologist/engineer)  Inonplastic to low plasticity, contains shell fragments and black manganese staining, -HCI Boring terminated at 50 feet	TE	BORATORY
		SITE	Vo	ogtle	e Units 3 & 4 COL Project Final Log	НО	LE NO. <b>B-6023</b>



	PROJEC		2 & A C	OL Project	JOB NO.	6-0286	SHEET NO				
		DINATES	3 & 4 C	DL Project	0141-0	BEGUN	<b>1</b> OF	COMPLETED			
B. Sharp			N 11415			4/6/200		4/6/2007			
DRILLER White-MACTEC	DRILL	MAKE AND	ME-55	HOLE DIAM	nches	HAMMER SE	RIAL NUME 331145	TOTAL DEP			
GROUND EL. DEPTH/EL. GROUND WATER S	ITE:		Vogtle Electric Generating Plant - Waynesboro,								
216.1 💆 /	1 1		<u> </u>	Vogtle Elect	ric Gene	rating Pla	ant - Wa	ynesboro, GA			
A N-VALUE (SPT)  O WATER CONTENT %  + ATT. LIMITS %  FINES %	Srd 6" ¬ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTIC  (* = field cl laboratory to of sample by	ON AND CL lassification adjus esting data and/or y field geologist/e	ted based on	ON	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING			
SS	8 16	216.1 215.3_	•	GRAVEL (GI	P)- Dark gr	ray (7.5YR 4	/1),	Top of Fill at a depth			
13-9-4	10			SAND, clayey to moist, medium	(SC) - Red	(2.5YR 4/8)	, damp	of 0.0 feet			
1 SS 2 SS 3 3-4-4	13	212.6_		SAA SAND, clayey to moist, loose			/-	Top of Barnwell			
SS	13		5-///	to moist, loose SAA except m			d ¹	Group at a depth of 3.5 feet Installed 4" steel			
35 X				37474 except in	caram acm	,		casing to a depth of 5.0 feet			
SS 5 6-8-7	15	205.6	10-	SAA							
SS A 6-7-7	17	203.0_		SAND, silty (S	 SM)- Red (	2.5YR 4/6),	moist,				
6 /\ SS \/ \ \	13			SAA except re		_		End logging by S. Woodham. Begin logging by B.			
SS 7 5-7-8			15-	SAA except te	u (2.31K4	76), Illie grai	ileu	Sharp.			
SS 8 6-7-8	12		20-	SAA except re	d (10R 4/8 <sub>)</sub>	)					
SS 9 6-7-7	11		25-	SAA except re coarse grained	d (10R 4/8)	) and (7.5YR	. 5/8),				
SS N 8-9-12	8	184.1_	30-	SAA except co (10YR 6/8), m	ontains som edium to co	e brownish yoarse grained	vellow				
SS V • 5-6-9	12		-	SILT condy (	ML). Vall	ow (10VR 7/	(8) and				
11   \( \text{UD} \)	11.5		35-	SILT, sandy ( yellowish brow very stiff, low medium graine	vn (10YR 5 plasticity, o	5/8), moist, st contains thin enses, -HCL	iff to fine to	Direct Push			
				SAA Pocket Penetro							
SS 12 6-5-6	15		40-	SAA except br contains black	ownish yel manganese	low (10YR 6 e staining	5/8), stiff,				
SS 13 UD 2 4-11-6	5 18 23	169.6_	45-	SAA except ve	ometer: <0.	25 TSF	_	Direct Push			
SS A 3-3-4	17	168.1_ 167.1_ 166.1		SAND, silty (S 6/8), moist, me -HCL CLAY (CL)-	SM)- Browedium dens	nish yellow ( e, medium gi	1 -				
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vogtl	e Units 3 & 4 CC Final Log	OL Project		. 0,0 ], [	HOLE NO. <b>B-6024</b>			



GEOTECHNICAL LOG	PROJECT Vogtle Un	its 3 & 4 COL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO.			
WATER CONTENT %  GOVERNMENT  WANTER CONTENT %  FINES %	-COUNT E Z		ON AND CLASSIFICAT classification adjusted based on testing data and/or re-examination by field geologist/engineer)	ION C	IOTES ON: VATER LEVELS, CHARACTER OF PRILLING AND ABORATORY ESTING		
FINES % 20 40 60 80	REC   FEC   FEC	moist, mediu fine grained S SILT, sandy moist, mediu medium grain	m stiff, low plasticity, cook and seams, -HCL  (ML)- Olive yellow (2.5 m stiff, low plasticity, fined SAND, -HCL  nated at 50 feet	Т			
	SITE	Vogtle Units 3 & 4 C		H	OLE NO. <b>B-6024</b>		



GE	OTECHNICAL LOG	<u>•</u>	OJEC		3 R <sub>1</sub> A	CC	OL Project	JOB NO.	06-0286	SHEET NO 1 OF		DLE NO. <b>B-6025</b>
LOGGED	) BY			DINATES	<i>5</i> <del>4</del> <i>4</i>		<u> </u>	0141-0	BEGUN	1 OF	COMPLE	
DRILLER	B. Sharp	DI	RII I	MAKE AND			18.7 E 6191		4/5/200 HAMMER SE		4/5/20	07 OTAL DEPTH
DIVILLE	White-MACTEC		IXILLI		CME-55 4 Inches 3311							50.0
GROUNI	$\nabla$ /	R SITE	Ē:				Vogtle Elect	rio Cono	veting Dl	ant Wa	unashan	o CA
1/2	<u>▼</u> /						v ogue Elect	ric Gene	raung Fi	ant - wa	ynesbor	0, GA
SAMP. TYPE AND NO.		1st 6" -5- 2nd 6" O 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory t of sample b	ON AND CL lassification adjus esting data and/or y field geologist/e	ted based on	ION	NOTES C WATER L CHARAC DRILLING LABORA TESTING	EVELS, TER OF AND TORY
SS 1	20 40 80 80	10-14-12	18	171.2_	_	$\bigotimes$	SAND, clayey medium dense	medium o	rained	- 1	Top of Fil	l at a depth
	<b>A</b>	6-9-9	14	169.4_	- - -		SAND, clayey 6/8) and red (2 medium graine SAND, silty (3 moist, medium	( <b>SC</b> )- Red 2.5YR 5/8),	ldish yellow damp, medi	(5YR um dense, 178 5/8),	Top of Ba Group at a 1.5 feet	rnwell
ss	<u> </u>	12-17-21	17	167.2_	5 - -		SAND, with s moist, dense, r				Installed 4 casing to 5.0 feet	l" steel a depth of
$\begin{vmatrix} 4 & 2 \\ SS & 2 \end{vmatrix}$		7-7-6	16	164.7_ 163.2_	<u>-</u>		abundant black SAND, clayey 6/8), moist, mo	<u>k mangañes</u>	e staining			
5 Z SS S	_	5-6-6	18	162.2_	10-		CLAY, silty (	CL-ML)- I	Brownish yel	low /-		
6   2     SS   7   2	<b>A</b>	4-6-7	13	159.7_	- - 15		plasticity, -HC SAND, silty (S moist, medium contains shell SAND (SP) -	fragments, Yellow (10)	-HCL YR 7/8), moi	$\overline{st}$ , $'$		
				155.7_	-		medium dense black mangane	, fine grain	ed, contains	trace		
SS 8 UD		3-4-7	18		20-		SILT, sandy ( moist, stiff, no contains shell	ML)- Yell inplastic to fragments,	ow (10YR 7) low plasticit -HCL	/8), y,	Direct Pu	sh
1		222	10	149.7_	-		Pocket Penetro				21100114	, <u></u>
		2-2-2	18	145.7	25-		SAND, silty (\$6/5), moist to grained, -HCL	SM)- Redd wet, very lo	ish yellow (7 oose to loose,	fine		
ss >	_	2-2-3	18	113.7_	- -		SILT, sandy ( 6/8) and gray ( stiff, nonplasti	ML)- Red	dish yellow (	7.5YR		
10 4	<u> </u>			140.7_	30-	ভাষাল	stiff, nonplasti SAND, -HCL	c to low pla	asticity, fine	grained		
SS 11		3-3-7	18		35-		SAND, silty (S dark bluish gra medium dense	SM)- Yello ay (GLEY2 , medium g	ow (2.5Y 7/6) 4/10Y), wet grained, -HCl	and , loose to		
SS 12		1-1-1	16		40-		SAA except pa bluish gray (G medium graine -HCL	ale yellow ( LEY2 4/10 ed, contains	(5Y 8/3) and B), very loos s shell fragme	dark se, fine to ents,	Changed drill bit.	to a 2 7/8"
SS 13		17-49-10	17	128.2_ 125.7	45—		SAA except pa dense, contain SILT (ML) - I hard, low plast	s large shel Pale vellow	1 fragments, (5Y 7/3) m	+HCL /		
ss	<b>A</b>	18-26-26	18	122.7	- - -		<b>SILT(ML)</b> - D 4/10GY), dam			EY1	Top of Bl Marl at a 47.0 feet	
	ED BY: A. TAYLOR ED BY: P. DEPREE			SITE	V	ogtl	e Units 3 & 4 Co Final Log	OL Project			HOLE NO.	6025
				I	518 of	<del>72</del> 4		<del>-</del>				



GEOTECHNICAL LOG	PROJEC*		COL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO	
AF SO	2nd 6" S 3rd 6" T BECOVERY (in)	ELEVATION IN FEET DEPTH IN FT	S S E DESCRIPTIO	ON AND CLASSIFICAT assification adjusted based on esting data and/or re-examination of field geologist/engineer )	•	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
14   FINES %   20   40   60   80   14   14   14   15   15   15   15   15	RE RE		plasticity, contacementation Boring termina	ains shell fragments and ated at 50 feet		HOLE NO.
		519 of	ogtle Units 3 & 4 CC Final Log			B-6025



GEOTECHNICAL LOG	<u> </u>	JECT	2.0.4.601		JOB NO.		SHEET NO.		
LOGGED BY	V U	gtle Units ( ORDINATES	3 & 4 COI	L Project	6141-0	06-0286 BEGUN	1 OF	2 B-602	6
B. Sharp			N 1140537	.7 E 6199	000 2	4/10/200	7	4/10/2007	
DRILLER	DR	ILL MAKE AND		HOLE DIAM		HAMMER SE			EPTH
White-MACTEC			ME-55	4 I	nches		331145	50.	.0
GROUND EL. DEPTH/EL. GROUND WATER $^{\Sigma}$ / $^{\prime}$ /	R SITE:		V	ogtle Elect	ric Gene	erating Pla	ant - Way	ynesboro, GA	L
A N-VALUE (SPT)  O WATER CONTENT %  + ATT. LIMITS %	2nd 6" O 3rd 6" A	RECOVERY (in) ELEVATION IN FEET	GRAPHICS	DESCRIPTIC (* = field ci	ON AND CL lassification adjusting data and/or y field geologist/e	sted based on	ION	NOTES ON: WATER LEVELS CHARACTER O DRILLING AND LABORATORY	
L FINES %		_		of sample b	y field geologist/6	engineer)		TESTING	
SS \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5-5-4	215.5 13 214.5		GRAVEL, wi	th sand (G	P)- Dark ora	v (5YR	Top of Fill at a de	enth
1 SS X 2 SS X A		18 214.0- 212.2_		4/1), damp, loc SAND (SP) - Y yellow (2.5Y 7 grained	ose, contair Yellowish r V/6), damp,	ed (5YR 5/8 loose, fine to	) and o medium	of 0.0 feet Top of Barnwell Group at a depth 1.0 feet	
ss 🗸 🛕		11	5	SAND, clayey yellowish brow dense, medium SAND (SP) - S	(SC) - Rec vn (10YR 3 grained Strong brov	1 (2.5YR 4/8) 5/8), damp, n vn (7.5YR 5/	and	Installed 4" steel casing to a depth 5.0 feet	of
4   ∆	4-7-8	11	1	SAND (SP) - S SAND (SP) - S reddish yellow loose, fine to n SAA except ye red (5YR 5/8), grained	nedium gra ellow (10Y moist, med	ined R 7/8) and yo dium dense,	ellowish medium		
SS 6	6-9-10	10	- 3	SAA except pa yellowish red ( grained SAA except fin		(2.5Y 8/4) an fine to media	d some um		
SS 7	6-6-9	9	4 4 5	SAA except re (10YR 7/6)	•	4/6) and some		Reamed hole with	
SS 8	5-8-8	9	20-	SAND, silty (Sdark red (10R) grained	<b>SM)</b> - Dusk 3/6), moist	y red (10R 3, medium de		7/8" drill bit and resumed drilling the 2 7/8" drill bi	with t
SS 9 A	5-10-11	11 188.5_	25—	SAA except di (10YR 7/8), m	usky red (1 edium to c	0R 3/4) to yeoarse grained	illow		
SS N	5-8-10	8.5	20	SAND, with si (10YR 5/8), m medium graine	oist, mediu	)- Yellowish ım dense, fin	brown e to		
SS 11	6-8-9	10	33	SAA except re yellowish brov dense, medium manganese sta	ı grained, c	ow (5YR 6/6) 5/8), moist, n contains trace	and nedium black		
SS N	5-10-18	173.5	40	SAA except ye	ellow (10Y	R 7/8)			
SS X	4-4-5	15 168.5_	'' /// '	SAND, clayey 6/8) and reddis loose, medium manganese sta	grained, c	wnish yellov 5YR 6/6), mo ontains trace	v (10YR bist, black		
SS 🔻 🛕	10-9-16	12 166.0_	-	<b>SAND, with s</b> (7.5YR 5/8) to	ilt (SP-SM reddish ye	)- Strong bro	own 7/8),		
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		SITE	Vogtle U	Units 3 & 4 CO Final Log	OL Projec	t		HOLE NO. <b>B-6026</b>	<u> </u>



SEOTECHNICAL LOC	-	OJEC ogtl		3 & <i>1</i>	CO	JOB NO. SHEET NO <b>01.41-06-0286 2</b> OF	
A NIVALUE (CDT)	1st 6" -7 2nd 6" O 3rd 6" T		ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
20 40 60 80			165.5			moist, medium dense, fine to medium grained   SAND, clayey (SC)- Reddish yellow (7.5YR 7/8), moist, medium dense, fine to medium grained, contains black manganese staining   Boring terminated at 50 feet	



GE	OTECHNICAL LO	<u> </u>	OJEC		3 & 1	·CO	OL Project	JOB NO.	06-0286	SHEET NO.		HOLE NO. <b>B-6027</b>
LOGGED	BY			DINATES	<u> </u>		3L Troject	UI II (	BEGUN	1 01	COMPL	
DDII I ED	M. Cooke		DII 1				79.4 E 62614		4/17/200		4/17/2	
DRILLER	White-MACTEC	ا ا	KILL	MAKE AND	ME-			iches		ERIAL NUMBI <b>331145</b>	EK	75.0
GROUNE	EL. DEPTH/EL. GROUND WAT	ER SITE	Ē:		17112-		75.0					
96	.7 \\ \frac{\fin}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fint}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fin}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fin}}}}{\frac{\frac{\frac{\frac{\frac{\fin}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fin}}}}}}}{\frac{\fin}}}}{\fin}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\firac{\fir}}}}}{\fin}}}}}}}}}}{\						Vogtle Electr	ic Gene	erating Pl	ant - Way	ynesbo	ro, GA
SAMP. TYPE AND NO.	▲ N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %	1st 6" - <del>7</del> 2nd 6" O 3rd 6" <del>-</del> 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIOI (* = field cla laboratory tes of sample by	ssification adju		ION		LEVELS, CTER OF NG AND ATORY
98	20 40 60 80	3-6-7	4	96.7	_	XXX	CAND with on	avel (SD)	Doels wallo	wiah	Top of I	Eill at a danth
SS 1		1-1-1	5	91.7_	- - - 5—		SAND, with gr brown (10YR 3 to medium grain SAND, with sill brown (10YR 4 fine to medium	/4), damp ned, angu lt (SP-SM	, medium de lar GRAVEI	nse, fine	of 0.0 fe	Fill at a depth et
SS X	<b>1</b> ○	2-2-3	3		-		SAA except yelloose, fine grain	llowish br	own (10YR	5/6), wet,		
SS 4	<b>A</b> DO:	3-1-2	4	84.7_	10-		SAA except dar moist, very loos					
SS S	<b>A</b>	1-1-1 5-3-1	6	82.2_	15-		*SAND, with s yellowish brow fine to medium SAND, silty (S	<u>grained</u> _		-		
6					-	$\bowtie$	5/6), moist, ver	y loose, fi	ne to mediur	n grained		
SS 7	7▲ ○ □	1-2-2	12	78.7_	20-	<b>**</b>	SAND, silty (S wet, very loose SAA except cor seams			moist to	depth of	Alluvium at a f 18.0 feet 13" steel o a depth of t
SS 9	7	6-8-7	12	69.7_	30-		SAND, silty wi (10YR 4/1), me		————— ( <b>SM)-</b> Dark se, fine grain	gray ed	Advance depth of	ed casing to a 27.0 feet
SS 10	7 🕰	6-8-9	12	63.2_	35-		*SAND, silty ( (GLEY1 3/10Y medium grained	), moist, r	y dark green nedium dens	ish gray e, fine to		Still Branch on at a depth feet
SS 11	7 🗆 🔾 🛦	14-17-18	12	59.7_	40-		*SAND, with s greenish gray (fine to medium	ilt (SP-SI GLEY1 3/ grained	<b>M)-</b> Very dar (10Y), moist	k , dense,		
SS 12	<b>A</b>	10-12-14	10		45 —		SAA except me	edium den	se, coarse gr	ained		
ss	0	5-5-7	18		- -		SAA except gre moist to wet, fir					
	ED BY: A. TAYLOR			SITE	V	ogtl	e Units 3 & 4 CO		t		HOLE NO	-6027
KEVIEWI	ED BY: P. DEPREE						Final Log				D.	-UU4/



GEOTECHNICAL LOC	•	OJE(		3 & 4	· C(	JOB NO. SHEET NO. <b>OL Project</b> 6141-06-0286 2 OF	
WATER CONTENT %  O NOW A WATER CONTENT %  H ATT. LIMITS %  □ FINES %	1st 6" -7 2nd 6" 0 3rd 6" 4	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTION AND CLASSIFICATION  (* = field classification adjusted based on laboratory testing data and/or re-examination of sample by field geologist/engineer)	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
20 40 60 80			44.7_	_			
SS 14	8-11-11	18	/_	55—		*SAND, silty (SM)- Greenish gray (GLEY1 5/10Y), wet, medium dense, fine grained, slightly micaceous	
SS 15	10-14-16	18	24.7	60-		SAA	
SS 16	5-11-19	18	34.7_	65—		*SAND, with silt (SW-SM)- Greenish black (GLEY1 2.5/10Y), moist to wet, dense, medium grained	-
SS N A	14-17-18	18		70-		SAA	
SS X	9-9-11	18	21.7_	75—		SAA except greenish gray (GLEY1 6/10GY), medium dense Boring terminated at 75 feet	
			SITE	V 523 of		e Units 3 & 4 COL Project Final Log	HOLE NO. <b>B-6027</b>



	PROJEC		3 & 4 CC	DL Project 61	NO. 41-06-0286	SHEET NO.	HOLE NO.  B-6028
LOGGED BY		DINATES		<u> </u>	BEGUN		COMPLETED
B. Sharp	DRILL	MAKE AND		1.4 E 626062.4		0 <b>7</b> ERIAL NUMBE	<b>4/16/2007</b> R TOTAL DEPTH
White-MACTEC		C	EME-55	331145	50.0		
GROUND EL. DEPTH/EL. GROUND WATER $95.7$ $\stackrel{\nabla}{\cancel{\$}}$ /	ITE:		,	Vogtle Electric (	Generating Pl	ant - Way	nesboro, GA
				9	<u> </u>		,
A N-VALUE (SPT)  O WATER CONTENT %  S PU 2 5 PU 2	Std 6" ¬ RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT GRAPHICS	DESCRIPTION AN  (* = field classificat laboratory testing da of sample by field go	ND CLASSIFICAT ion adjusted based on ta and/or re-examination cologist/engineer)	TION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING
SS 1 3-12-22	3 6	93.1		GRAVEL, with sar (7.5YR 4/6), moist,	nd (GP)- Strong b	orown ocoarse	Top of Fill at a depth of 0.0 feet
SS		92.5_	-	grained SAND SAA except gray (1	0YR 5/1), moist,	very dense	01 0.0 1001
SS V			5	*SAND, with silt (\$\) (10YR 5/4) and stro moist, dense, fine gr SAA except brown	rained		
SS \( \times \) \( \tag{16-24-3} \)				grained  SAA except browning  SAA except yellowing			
SS			10-	dense  SAA except yellowi	·		
		82.7_					
SS 7 10-16-1	12		15	<b>GRAVEL, with sar</b> 5/2), moist, dense	na (GP)- Olive gi		Loss of circulation at a depth of 15.0 feet
SS 8 10 +0 +	15	77.2_	20-	*SILT (ML)- Olive medium stiff, low p	e gray (5¥ 4/2), m lasticity, -HCL		Top of Alluvium at a depth of 18.5 feet
SS 9 4-7-6	12	73.7_	25-	SAND (SP) - Dark g wet, medium dense,	gray (5Y 4/1), mo		Installed 3" steel casing to a depth of 25.0 feet
SS 10 2-2-3	12		30-	SAA except loose, r	medium to coarse		25.0 feet
SS 11 2-3-4	12		35-	SAA except very da contains black mang	ark gray (5Y 3/1), ganese staining	wet,	
SS 12 3-4-4	12		40-	SAA except dark gr brownish gray (2.5Y	ay (2.5Y 4/1) and (6/2), coarse grai	light ned	
SS 13 4-3-4	12	48.7	45-	SAA except light br	rownish gray (2.5)	Y 6/2)	
SS A TAYLOR	12	45.7_ 45.7 SITE	1 × 1	*SAND, with silt (\$ (2.5Y 5/2), wet, loos	SW-SM)- Grayish se to medium den		HOLE NO.
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE		0/12	Vogtle	e Units 3 & 4 COL P Final Log	гојесі		B-6028



GE	OTECHNICAL LO	G PROJE		3 & 4	CC	JOB NO.  OL Project 6141-06-0286	SHEET NO		HOLE NO. <b>B-6028</b>
SAMP. TYPE AND NO.			le Units	3 & 4 DEPTH IN FT	GRAPHICS		<b>2</b> OF	NOTE WATE CHAR DRILL	B-6028 S ON: R LEVELS, ACTER OF ING AND RATORY
			SITE	V 525 of		e Units 3 & 4 COL Project Final Log		HOLE N	io. <b>3-6028</b>



GI	=O	TECHNICAL LO	<u> </u>	OJEC		2.0			JOB NO.	0.000	SHEET NO		HOLE NO.
LOGG			Ψ,		DINATES	3 & 4	CO	OL Project	6141-0	06-0286 BEGUN	<b>1</b> OF	COMPLE	B-6029
LUGG	בט כ	B. Sharp		OUR		N 114	1777	71.7 E 6239	66.6	4/12/200	7	4/12/2	
DRILL	ER	•	D	RILL	MAKE AND	MODE	L	HOLE DIAME		HAMMER SE	RIAL NUMB		TOTAL DEPTH
OPOL	ND.	White-MACTEC	ED OIT	_	C	ME-	55	4 I	331145		50.0		
GROU	35.4	$\nabla$ /	ER SITI	E:				Vogtle Electi	ric Gene	erating Pla	ant - Wa	vnesbo	ro, GA
		- ,										<u> </u>	
SAMP. TYPE AND NO.	SAMPLE	► N-VALUE (SPT)  ○ WATER CONTENT %  + ATT. LIMITS %  □ FINES %  20 40 60 80	1st 6" - z 2nd 6" O 3rd 6" Z	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIO (* = field cl. laboratory te of sample by	assification adius		ON		LEVELS, CTER OF IG AND ATORY
SS 1	M	20 40 00 00	WOH/6"-1-		83.9_	-		SILT (ML) - D soft, fine grains	Oark brown ed, contain	n (7.5YR 3/4) as organics	, moist,	Top of A depth of	Alluvium at a 0.0 feet
SS 2		<b>1</b> + → ⊞	WOH/18"	0	82.2_	-		NO RECOVE	RY				
SS 3 SS	M		1-1-1 WOH/12"-1	17	79.9_	5-		*SAND, clave (GLEY1 4/10Y to low plasticit SILT, with san (GLEY1 4/10C	y <u>, fine gra</u>	ined, contains	s <u>organics</u> -	Installed casing to	4" steel o a depth of and resumed
4		<del> 0+</del>	WOH/18"	18	76.9_	-		fine grained SA	AND, conta	ains organics	HCL	drilling v	with a 2 7/8"
SS 5	A		WOIFIG	10	74.9_	10-		5/5GY), moist to coarse grain	to wet, vered SAND,	ry soft, nonpl contains cen	astic, fine nented		
SS 6	X	<b>A</b> : O : □	30-11-6	15		-		*CLAY, sandy 5/5GY), moist to coarse grains shell fragments SAND, silty (S 6/5GY), wet, m	s, + <u>HCL</u> 5 <b>M)</b> - Green nedium den	nīsh gray (GI	EYI LEYI		
SS 7		<b>\</b>	2-1-1	7		15-		shell fragments SAA except ve	, THUL	.,			
SS 8		<b>\</b> +0	1-2-1	14	68.4_	20-		*CLAY, sand (GLEY1 4/5G' fragments, +H0	( <b>CH)</b> - D	ark greenish ft, contains s	gray nell		
SS 9	X	<b>A</b>	1-1-9	15	63.7_ 58.7_	25-		SILT, sandy () and olive (5Y 5 plasticity, fine contains shell f	ML) - Darl 5/3), wet, s	x gray (GLEY tiff, nonplast arse grained S	/1 4/N) ic to low SAND,		
SS 10	X	<b>A</b>	20-23-27	18		30-		SAND, with si 5/N), wet, dens grained, -HCL	lt (SP-SM e to very o	)- Gray (GLI lense, very fi	EY1 ne to fine	Top of S Formatic of 26.7 f	till Branch on at a depth eet
SS 11	X		39-50/5"	11		35-		SAA except gr. (GLEY1 4/N),	ay (GLEY very dense	1 5/N) to dar e, fine grained	k gray d		
SS 12	X	<b>N</b> 0	6-4-6	17		40-		SAA except ve 3/5GY), loose coarse grained	ry dark gro to medium	eenish gray (o dense, medi	GLEY1 um to		
SS 13	X	<b>A</b>	6-9-7	15		- - 45 – -		SAA except da dense, fine grai	rk gray (G ned	ELEY1 4/N),	medium		
SS	$\square$	<b>A</b>	3-4-5	18		-		SAA except loo	ose, contai	ns CLAY ler	ises		
	M AREI	D BY: A. TAYLOR			35.4 SITE	X.	ogtl	e Units 3 & 4 CC				HOLE NO	
		D BY: P. DEPREE					ogui	Final Log		•			6029



GEOTECHNICAL LOG	PROJECT Vogtle		COL Project	JOB NO. <b>6141-06-0286</b>	SHEET NO 2 OF		
FINES % + ATT. LIMITS %	2nd 6" S 3rd 6" Z Ard 6" Z RECOVERY (in)	ELEVATION IN FEET DEPTH IN FT	S DESCRIPTIO	ON AND CLASSIFICAT assification adjusted based on esting data and/or re-examination r field geologist/engineer )		NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING	
FINES % 20 40 60 80	REC		Boring termina			LABORATORY TESTING	
		SITE V	ogtle Units 3 & 4 CC Final Log	OL Project		HOLE NO. <b>B-6029</b>	



DORDINATES   STAND   DORDINATES   STAND   DESCRIPTION AND CLASSIFICATION   A N-VALUE (SPT)   STAND	GE	OTECHNICAL LOG	•	OJEC		2 0- 1		JOB NO.	SHEET NO	
DRILLER   White-MACTEC   DRILL MAKE AND MODEL   C.ME-55   4.1 Inches   A331145   S.0.0			, ,			3 & 4		DL Project   6141-0		
White-MACTEC   CME-55   4 Inches   331145   50.0	DDII I E		D.							
Second   S	DRILLER		DI	KILL						
A N-VALUE (SPT)		D EL. DEPTH/EL. GROUND WATE		1						
20	88	3.4 ♀ ′/			1			Vogtle Electric Gene	rating Plant - Wa	aynesboro, GA
1-1-2   18   1-1-2   18   18   18   18   18   18   18   1	SAMP. TYPE AND NO.	O WATER CONTENT %  + ATT. LIMITS %  □ FINES %		RECOVERY (in)			GRAPHICS	( * = field classification adjust	ted based on	WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY
SS			1-1-2	12				SAND, with clay (SP-SC	)- Dark reddish	Top of Alluvium at a
SS   SN   Claws (SC) ** Mortified redates by ellow (75 kg hold) and high gray (10 kg hill) most, drilling with a 2 7/8 with sery loose to loose, took plasticity, fine to medium grained. HCL   NO RECOVERY	SS	<b>A</b> ++++++++++++++++++++++++++++++++++++	2-3-4	13		-		\medium grained confains	organics /	depth of 0.0 feet
2-1-2   15   77.9   10   77.	SS S	<b>A</b> +0+			82.9_	5- -		moist, medium stiff, low pymedium grained SAND SAND, silty (SM) - Mottl (10YR 5/8) and light gray loose, fine to medium gra *SAND clavey (SC) - Mo	blasticity, fine to // ed yellowish brown (10YR 7/1), moist, // ined offled reddish yellow	casing to a depth of 5.0 feet and resumed
1-1-2   18   77.9   10   SAA except very loose   SAND, sitty (SM)- Greenish gray (GLEY1   SAND, sitty (SM)- SAND, sitty (SM)- Greenish gray (GLEY1   SAND, sitty (SM)- Greenish gray (GLEY1   SAND, sitty (SM)- S	ss	<u> </u>	2-1-2	15		-		medium grained	y (10YR 7/1), moist, lasticity, fine to	drilling with a 2 7/8" drill bit.
1-1-1   18   75.4   15   75.4   15   76.4   15   76.4   15   77.			1-1-2	18	77.9_	10-		SAA except very loose	 nish oray (GI FV1	+
SS	6 2 SS 7				75.4_	- - - 15		medium grained, -HCL		
SS 10 2-2-2 3 SAA  225- SAA  30- SAA  SS 11 SAA  4-8-9 18 35- SAND, with silt (SP-SM)- Dark gray (GLEY1 4/N), wet, medium dense, very fine to fine grained, contains wood fragments  SS 2 4-0-1 17 46.4  SS 2 4-0-1 17 46.4  SS 3-13 4.8 3-3-4 18 4.4 41.4 45- SAAA except fine grained  **CLAY, sandy (CH)- Dark gray (GLEY1 4/N), wet, medium stiff, very line grained of 42.0 feet			1-1-1	18	71.4_	20-		SAA except very dark gravery fine grained, contain	by (GLEY1 3/N), wet, s organics	
SS No. with silt (SP-SM)- Dark gray (GLEYI 4/N), wet, medium dense, very fine to fine grained, contains wood fragments  SAND. with silt (SP-SM)- Dark gray (GLEYI 4/N), wet, medium dense, very fine to fine grained, contains wood fragments  SAA except fine grained  SAA except fine grained  *CLAY, sandy (CH)- Dark gray (GLEYI 4/N), wet, medium stiff, very fine grained of 42.0 feet  *CLAY, sandy (CH)- Dark gray (GLEYI 4/N), wet, medium stiff, very fine grained of 42.0 feet	SS S	+ =	1-1-1	18		25-		SAA		
SS 13   35-   (GLEY1 4/N), wet, medium dense, very fine to fine grained, contains wood fragments   SAA except fine grained   SAA except fine grained   SAA except fine grained   SAA except fine grained   Top of Still Branch Formation at a depth of 42.0 feet   41.4   41			2-2-2	3	56.4_	30-		SAA		
SS 13			4-8-9	18		35-		(GLEY1 4/N), wet, medic	im dense, very fine to	
SS 13  *CLAY, sandy (CH)- Dark gray (GLEY1 4/N), wet, medium stiff, very fine grained SAND, -HCL  Top of Still Branch Formation at a depth of 42.0 feet	SS 12 4		5-12-10	17	46.4	40-		SAA except fine grained		
SS SAND, silty (SM)- Dark greenish gray (GLEY1 4/10Y), wet, medium dense, medium		▲ +-0	3-3-4	18		45 —		*CLAY, sandy (CH)- Da 4/N), wet, medium stiff, v SAND, -HCL	ark gray (GLEY1 ery fine grained	Formation at a depth
	ss		3-5-8		38.4	-		SAND, silty (SM) - Dark	greenish gray	
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  SITE Vogtle Units 3 & 4 COL Project Final Log  B-6030			<u> </u>					e Units 3 & 4 COL Project		



## **GEOTECHNICAL TEST PIT LOGS**



	_	TIOTEO	l DD(	) IE (	`T				JOB NO.		OUEET NO		HOLENO		
GE	ΞC	TECHNICAL LOC	PRO			2 0_ /		OI Dwalaat		.06-0286 SHEET NO			HOLE NO.		
LOGG			7 (		DINATES	3 & 4	·C	OL Project	0141-0	BEGUN	1 OF	TP-B-1108  COMPLETED			
LOGG	בט	M. Cooke		JUR		NI 112	112	10 5 E (011	<i>15</i> 0		7	3/29/2007			
DRILLI	ER	MI. COOKE	DF	N 1144312.5 E 621145.9 3/29/2007  PRILL MAKE AND MODEL HOLE DIAMETER HAMMER SER											
		<b>Graves Drilling</b>				AT 31			x 20'			12.2			
GROU	ND	EL. DEPTH/EL. GROUND WATE	R SITE	<u>:</u>		11 01			12,2						
2	64	.1 💆 /						<b>Vogtle Elect</b>	ric Gene	erating Pl	ant - Wa	ynesb	oro, GA		
ш		▲ N-VALUE (SPT)	N-COUNT	(in)	7	ŀ-						NOTE	S ON:		
Fè	드		1st 6" 2nd 6" 3rd 6"	RY	TIO	Z	≅					NOTES ON: WATER LEVELS,			
_ 	SAMPLE		1st 6" 2nd 6" 3rd 6"	)VE	:VA:	프	GRAPHICS	DESCRIPTIO	ON AND CI lassification adju-	ION		ACTER OF ING AND			
SAMP. TYPE AND NO.	S)	+ ATT. LIMITS %		RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GR	laboratory t of sample b	esting data and/or y field geologist/o	re-examination engineer)		LABOR	RATORY		
"		☐ FINES %		R								TESTI	NG		
	+	20 40 60 80			264.1 263.6	_	XXX	TOPSOIL				Top of	Fill at a depth		
					203.0	-		SAND (SP) - 0 to damp, fine t	Olive yello	w (2.5Y 6/8)	, moist	of 0.0 f	Fill at a depth feet Barnwell at a depth of t		
					261.1_		77	1		,		Group	at a depth of		
						-		SAND, clayey and olive yello medium grains	( <b>SC)-</b> Mo ow (2.5Y 6/	ttled red (2.5/8), moist, fil	SYR 5/8) ne to	0.5 166	ı		
						5-		medium graine	ed `	,, ,					
						-									
		0 🗆			255.6_	-									
BK 1	83			42		10-		SAND, silty (S	SM)- Red (	(2.5YR 5/8),	moist,	Sample a 20" b	e retrieved from oucket.		
1						10-									
	14				252.1_	-		Test pit termin	ated at 12	2 feet					
								l cot pit termin	ated at 12.	2 1001					
PREPA	ARE	D BY: A. TAYLOR			SITE	V	ogtl	e Units 3 & 4 C	OL Projec	t		HOLE N			
REVIE	WE	D BY: P. DEPREE				<del></del>		Final Log				TP-B-1108			



COSCIDED BY   N. COOK	_		TOTLO	1						LIODAYO		1	-		
CODREDED BY   M. Cooke   CODREDATES   CAT 31SL   STEEL WARE AND MODEL   CAT 31SL   STEEL WARE AND WAR	GF	ОТ	ECHNICAL LO	~			20	1.00	Nt. D? - 4		0				
M. Cooke  STELL MAKE AND MODEL  Graves Drilling  Graves D							3 & <sup>2</sup>	+ ((	JL Project	0141-		l OF			
GROUND EL DEPTHEL GROUND WATER CAT 31SL 3' x 20' STE Vogtle Flectric Generating Plant - Waynesboro, GA  N-VALUE (SPT) A N-VALU	LOGGE	זם ט	M Cooke		JUR		N 112	1394	57.3 E 6216						
SEQUENCE: DESPINEL GROUND WATER  20 1	DRILLE	R	IVII COURC	D	RILL										
Solution (Section 1)   Solution (Section 2)			<b>Graves Drilling</b>			$\mathbf{C}^{A}$	<b>AT 3</b> 1	15L	3'	x 20'				9.0	
A NAVALUE (SPT)  WATER CONTENT  PREVIOUS SHAPE  WATER CONTENT  WAT				ER SITE	≣:					•					
PREPARED BY: A. TAYLOR REVIEWED BY P. DEPREE    20 40 60 80   269.5   267.5	26	9.5	<u> </u>						Vogtle Elect	ric Gen	erating Pl	ant - Way	ynesb	oro, GA	
BK TOPSOIL Contains organics  267.5  269.5	SAMP. TYPE AND NO.	SAMPLE + O	WATER CONTENT % ATT. LIMITS % FINES %	1st 6" -z 2nd 6" O 3rd 6" -z	RECOVERY (in)		DEPTH IN FT	GRAPHICS	( * = field c	lassification adia	isted based on	TION	WATEI CHARA DRILLI LABOF	R LEVELS, ACTER OF NG AND RATORY	
BK 7 2 12 12 260.5 Test pit terminated at 9.0 feet due to hole cave lim.  Test pit terminated at 9.0 feet due to hole cave lim.  Test pit terminated at 9.0 feet due to hole cave at beginning to cave due to loose SAND object.  Test pit terminated at 9.0 feet due to hole cave lim.						203.0		$\bowtie$	SAND, with s	ilt (SP-SN	1)- Light red	(2.5YR	Edge o	f landfill pit	
REVIEWED BY: P. DEPREE Final Log					12	267.0-	5—		**TOPSOIL - C **SAND, with 7/8), damp, fir	ontains or silt (SP-S) he grained	ganics <b>M)-</b> Yellow (	(10R	Group 2.0 feet Test pit cave du SAND	at a depth of beginning to be to loose	
REVIEWED BY: P. DEPREE Final Log															
REVIEWED BY: P. DEPREE Final Log	PREPAR	SED B.	Y' A TAYLOR			SITE	7	/ootl	e Units 3 & 4 Co	OL Projec	<u> </u>		HOLE N	O.	
							•	ogu							
						1	<del>532 o</del>	<del>f 724</del>		2					



GEOTECHNICAL LOG    PROJECT   Vogite Units 3 & 4 COL Project   GIA14-06-0286   1 of 1   TPR-1121	_	micie	T					LIOPAGE		1	1	7	
DOGRED BY  M. Cook  PRILLEY  Graves Drilling  GROUND ELL  DEFINEL GROUND WATER  A NAVALUE (SPT)  WATER CONTENT 5  STE  Vogite Electric Generating Plant - Waynesboro, GA  NOTES ON:  WATER CONTENT 5  STE  Vogite Fines 5,  SAA except contains scuttered plantic debras  SAA except contains scuttered plantic debras  SAA except wet  SAA except wet  SAA except contains scuttered plantic debras  SAA plantic Right SAA except contains scuttered plantic debras  SAA except contains scuttered plantic debras  SAA except contains scuttered plantic debras  SAA plantic Right SAA except contains scuttered plantic debras  Test plus planting the planting	GF	OTECHNICAL I OG	·		20		NI D						
M. Cooke    M. Cooke   Sell Lake & MS DADDE   RECEIVED   RECORD   NAMES   SELLA NUMBER   TOTAL DEPTH   TOTAL DEPTH			l v ogu		3 & 4	CC	)L Project						
BRILLE  Graves Drilling  CAT 315L  3' x 20'  NAMER SERIAL NUMBER  14.0  RECURT 241.2  Vogite Electric Generating Plant - Waynesboro, GA  NOTES ON.  WATER CONTENT %  Series of S	LOGGED		COOR		N 11.	1250	17 E (304	01 5		0.7			
CAT 315L   3' x 20'     14.0     14.0	DRILLER		DRILI										
SAA except wet strength by A TAYLOR  SPERFARED BY A TAYLOR  REVIEWED BY A PART OF THE PRESENCE OF THE PROPERTY OF THE PRESENCE OF THE PROPERTY													
A NVALUE (SPT)  O WATER CONTENT %  I FINES %  20 40 80 80 80 80 80 80 80 80 80 80 80 80 80	GROUNE	DEL. DEPTH/EL. GROUND WATER	R SITE:	CHI VIOLI V A 20								1100	
SAA except contains scattered plastic debris    Comparison of the content of the	241	1.2    ▼ /				,	Vogtle Elect	ric Gene	erating Pl	ant - Way	nesbo	ro, GA	
SAA except wet  SAA except contains scattered plastic debris  SAND clavery (SC) - Dark yellowish brown (10) R 4/6), moist to wet, tine to medium at a depth of 14.0 feet  SAND clavery (SC) - Dark yellowish brown (10) R 4/6), moist to wet, tine to medium at a depth of 14.0 feet  Test pit terminated at 14.0 feet  PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPRRE  SITE Vogite Units 3 & 4 COL. Project Final Log  Final Log  HOLE NO.  TP-B-1121	SAMP. TYPE AND NO. SAMPI F	○ WATER CONTENT % 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2nd 6" 6 3rd 6" 4 3rd 6" 4 SECOVERY (in)		DEPTH IN FT	GRAPHICS	( * = field cl laboratory te of sample by	assification adju esting data and/o field geologist/	sted based on r re-examination engineer)	TION	WATER CHARA DRILLIN LABORA TESTIN	LEVELS, CTER OF IG AND ATORY G	
PREPARED BY: A. TAYLOR REVIEWED BY: P. DEPREE  Test pit terminated at 14.0 feet  Test pit terminated at 14.0			12		-		SAA except co	et ontains sca	ttered plastic	debris brown ium	Sample a 20" bu	retrieved from cket.	
REVIEWED BY: P. DEPREE Final Log TP-B-1121				SITE			Test pit termin	ated at 14.	0 feet				
					V	ogtie			ι				
				1	533 o	<del>724</del>		•				41#1	



			IFOT			JOB NO.		la===a	1		
GE	OTECHNICAL LO	G PRO		2 0 4 04	OI Duniant		06-0286 SHEET NO			HOLE NO.	
		٤٥٧	ORDINATES	3 & 4 C	OL Project	6141-06-0286 1 o			F 1 TP-B-1125 COMPLETED		
LOGGE	M. Cooke			N 11/2/	03.7 E 6216	QZ 0	3/29/200	07	3/29/2007		
DRILLER		DRI	LL MAKE ANI		HOLE DIAM	ETER		U / ERIAL NUMBI			
	<b>Graves Drilling</b>			AT 315L		3' x 20'				11.0	
GROUNI	D EL. DEPTH/EL. GROUND WAT	ER SITE:		11 0102		1110					
240	<b>0.6</b>				<b>Vogtle Elect</b>	ric Gene	erating Pl	ant - Way	ynesbo	ro, GA	
щ	▲ N-VALUE (SPT)	N-COUNT	Î z	(0					NOTES	: ON:	
논호	U O WATER CONTENT %	1st 6" 2nd 6" 3rd 6"	된 은ᇤ	=   =					WATER	R LEVELS,	
ANP. TYF		2nc 3rd	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	GRAPHICS	DESCRIPTIO	lassification adiu	sted based on	TION		CTER OF NG AND	
SAMP. TYPE AND NO.			ELEVATION IN FEET	DEPTH IN FT	laboratory to of sample b	esting data and/o y field geologist/	r re-examination engineer)		<b>LABOR</b>	ATORY	
	☐ FINES %			_					TESTIN	iG	
	20 40 60 80		240.6		SAND, silty (S	SM)- Red	(2.5YR 5/8),	damp,	Top of l	Fill at a depth	
					SAND, silty (Sand fine to medium blocks of cemeral high strength gardens plastic and trass	n grained, o ented Utley	contains GRA Limestone.	AVEL, slab of	of 0.0 fe	et	
				-₩	high strength g	grout (at a c	depth of 4.0	feet),			
			235.3_		F						
DIV D			6 233.3_	5-	SAND, with s moist, fine to r	ilt (SP-SM	I <u>)</u> - Red (10R	4/8),	C 1		
BK 1	<b>\</b>			-₩	moist, fine to i	neaium gra	ained		a 20" bu	retrieved from licket.	
			220.6	10-	SAA except ye	ellow (10Y	R 6/8)				
			229.6_		Test pit termin	ated at 11.	0 feet				
			OUTE								
	RED BY: A. TAYLOR		SITE	Vogtl	le Units 3 & 4 Co		t		HOLE NO	B-1125	
KEVIEW	ED BY: P. DEPREE			534 of 734	Final Log	<u> </u>			11.	D-1123	



		TICILO							LIOPAIO		1			
GE	<b>O</b> 1	TECHNICAL LO	~	OJE(		20		N. D	JOB NO.	SHEET NO.		HOLE NO.		
						3 & 4	CO	OL Project	6141-0	1 OF		TP-B-1185		
LOGGE	=n RX	M. Cooke	C	UUR	DINATES	N 11.	116	34.2 E 6222	42.2	3/29/200	0.7	COMPL		
DRILLE	ΞR	MI. COOKE	D	RILL	MAKE AND				HOLE DIAMETER HAMMER SERIAL NUMB			3/29/2007 BER   TOTAL DEPTH		
		<b>Graves Drilling</b>			C	AT 31	5L		3' x 20'			11.0		
GROUI	ND EL	. DEPTH/EL. GROUND WAT	ER SITI	Ξ:									1200	
22	25.2	♀ / ▼ /					ynesbo	oro, GA						
SAMP. TYPE AND NO.	SAMPLE	N-VALUE (SPT)  WATER CONTENT %  ATT. LIMITS %  FINES %	1st 6" - <del>z</del> 2nd 6" O 3rd 6" <del>z</del>	RECOVERY (in)	ELEVATION IN FEET	DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory to of sample b	lassification adiu		TION	NOTES ON: WATER LEVELS, CHARACTER OF DRILLING AND LABORATORY TESTING		
		20 40 60 80			225.2	_		G						
BK 1	₹	+-0		12	224.2_ 223.7- 219.2_ 214.2_	5-		SAND, with si (10YR 5/8), m GRAVEL, wi CLAY, with sa 8/2), moist, fin contains traces  SILT, with sa 8/2), dry to dan SAA except colaminated strualong lamination. Test pit termin	th silt (GP and (CL)- ee to mediu of muscai nd (ML)- mp, fine gr ontains slig cture, and in on planes	Pale yellow im grained S te Pale yellow rained SANE thtly inundate manganese s	(2.5Y AND, (2.5Y	Top of Group a 1.5 feet	Fill at a depth eet Barnwell at a depth of  retrieved from acket.	
DD55:					SITE	-		TI 1/ 2 0 4 0	OI D :			חטו ב איי	<u> </u>	
		BY: A. TAYLOR BY: P. DEPREE			SILE	V	ogtl	e Units 3 & 4 CO Final Log		t		HOLE NO	B-1185	
IXLVIL	**LD [	JI.I. DEI NEE			1	535 o	<del>724</del>	r mai Lug	<u> </u>			11	<i>D</i> 1103	



I III ICI E							LIOPNIO		1		1	
GEOTECHNICA		OJEC		20		N. B.	JOB NO. SHEET NO					
	· · · · · · · · · · · · · · · · · · ·			3 & 4	CC	OL Project	6141-06-0286 1 0				ГР-В-1194	
LOGGED BY		OOR	DINATES					BEGUN		COMPL		
M. Cook						00.6 E 6217		3/29/200		3/29/2007		
DRILLER	1	KILL	MAKE AND			HOLE DIAM		HAMMER SI	ERIAL NUMBI			
Graves Dril			C.A.	AT 31	<u>5L</u>	3'	x 20'			11.5		
	ROUND WATER SIT	E:				G. 1						
202.7 ♀ /					1 1	Vogtle Elect	ric Gen	erating Pi	ant - Way	ynesbo	ro, GA	
MATER CONTINUATION AND AND AND AND AND AND AND AND AND AN	1st 6" % LNA 3rd 6" 100 % LNA 3rd 6" 100 % LNA 6" 100 % L	RECOVERY (in)	ELEVATION IN FEET 202.7	DEPTH IN FT	GRAPHICS	laboratory to of sample b	lassification adju esting data and/o y field geologist/	isted based on or re-examination (engineer)	TION	CHARA DRILLIN LABOR TESTIN	R LEVELS, CTER OF NG AND ATORY IG	
BK ₹ ○+□+		12	194.7_	5 —		*SAND, with 7/6) and very predium grains				Sample a 20" bu	Fill at a depth set Barnwell transfer a depth of retrieved from seket.	
2		42	191.2_	10-		*SAND, claye 5/8) and yellow  Test pit termin	ated at 11.	5 feet			retrieved from icket.	
PREPARED BY: A. TAYLOR			SITE	V	ogtlo	e Units 3 & 4 Co		et		HOLE NO		
REVIEWED BY: P. DEPREE				536 of	<del>79</del> 4	Final Log	5			1 P-	B-1194	
				550 U	, 4							



														LIOPNIO		1				
GF	=(	T	FCH	INI	CAI	L LO		ROJE		20		OI D	• ,	JOB NO.	0.000	SHEET NO		HOLE NO.		
					<b>O</b> / ()				le Units	3 & 4	i C(	OL Pi	oject	6141-0	06-0286	<b>1</b> OF		TP-B-1195		
LOGG	⊏υ	ВY	n/		alra			COOL	COORDINATES N 1147648.4 E 6223						BEGUN 3/20/20	07		PLETED		
DRILL	ER		IVI	. CO	oke			DRILL MAKE AND MODEL HOLE DIAME						3/29/2007 3/29/2007 BETER HAMMER SERIAL NUMBER TOTAL						
			Grav	æs T	)rillii	nσ			CAT 315L 3' x 20'								8.0			
GROU	ND	EL.	DEP	TH/EL		UND WA	TER S	I ITE:										0.0		
2	12	.2	Ţ / Ţ /	! !								Vogt	le Elect	tric Gene	erating Pl	lant - Wa	ynest	ooro, GA		
ш			N-VAL	.UE (	SPT)		N-COUN	Ţ	z	  -	(0						NOTE	ES ON:		
Fè	기	0	WATE	R CC	ONTEN	IT %	1st 6" 2nd 6"	<u>.</u>	은뇨	Z	l≌						NOTES ON: WATER LEVELS,			
	SAMPLE						1st 2nc	¥ \\	<b>%</b> H	DEPTH IN FT	GRAPHICS	DES	( * = field o	classification adju-	LASSIFICAT sted based on	ΓΙΟΝ		RACTER OF LING AND		
SAMP. TYPE AND NO.	S		ATT. L		S %			RECOVERY (in)	ELEVATION IN FEET		GF		laboratory t of sample b	testing data and/or by field geologist/o	r re-examination engineer)		LABORATORY TESTING			
		Ш	FINES 20	5 % 40	60	80		œ	212.2								IESI	ING		
	H		20	<del>4</del> 0	00				212.2			SAN	D (SP) - `	Yellow (2.5	5Y 7/8), dam	np to dry,	Top o	f Barnwell		
			:	:	:	:						fine t	o mediur	n grained			Group 0.0 fe	f Barnwell o at a depth of et		
					:	:				-		}								
			:			:														
										5-										
									204.2_	-		]								
			:		:	:			204.2_	-		Test	pit termir	nated at 8.0	feet					
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DDED	\Dr	ים ח:	:: /: A. TA	YI OP	:	:			SITE	×	70941	  a   I   mida	3 8 40	OI Duatas	<b>t</b>		HOLE I	NO		
									vogate emisse at 1 controject							P-B-1195				
	REVIEWED BY: P. DEPREE																			



GEOTECHNICAL LOG		tle Units	204					SHEET NO.		HOLE NO.
			3 & 4	COL	Project	6141-0	141-06-0286 1 OF			ГР-В-1197
M. Cooke	C00	RDINATES	N 114	6874	4 E 6220	74.6	BEGUN 3/29/200	07	3/29/2	
DRILLER	DRIL	L MAKE AND	MODE	L	HOLE DIAM	HOLE DIAMETER HAMMER SERIAL NUM				TOTAL DEPTH
GROUND EL. DEPTH/EL. GROUND WATER	loit-	CAT 315L 3' x 20'								11.0
GROUND EL. DEPTH/EL. GROUND WATER $245.9$ $\mathbf{\overset{\nabla}{\mathbf{y}}}$ /	SITE:		ant - Wa	ynesbo	ro, GA					
WATER CONTENT %  SAMP  O WATER CONTENT %  + ATT. LIMITS %  FINES %	2nd 6" Ö 3rd 6" Z RECOVERY (in)		DEPTH IN FT	GRAPHICS	DESCRIPTIC (* = field c laboratory t of sample b	lassification adiu	LASSIFICAT sted based on r re-examination engineer)	TION	CHARA DRILLIN	R LEVELS, CTER OF NG AND ATORY
BK 1	72	245.9 244.4_ 234.9_	5—	S (s	AND, with saloyR 6/8), daubangular to saloy Rest pit termin	eddish yello	ow (5YR 6/8		Top of I Group a 1.5 feet	Fill at a depth eet Barnwell t a depth of retrieved from ocket.
PREPARED BY: A. TAYLOR		SITE	V		nits 3 & 4 C		t		HOLE NO	
REVIEWED BY: P. DEPREE			538 of	<del>724</del>	Final Log	<u> </u>			11-	B-1197