

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2399727 N 224065 NAD83				11. DATUM FOR ELEVATION SHOWN TBM or MSL MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-01				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 8 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (14.0' of Water)				16. DATE HOLE STARTED 06/19/03 COMPLETED 06/19/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 31.5'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 14.0' WATER			Time begin vibracoring: 1318 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-14.0	14.0		OCEAN BOTTOM @14.0'		14.0'	
			SP-SM Gray, fine, poorly graded silty sand, w/shell		1	Scale changed @26.0'.
					14.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	16.0				17.5'	VIBRACORE BORING From 0.0' to 17.5' Ran 17.5 Rec: 15.0'
			SM Gray, fine elastic silt, w/shell fragments.		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	18.0				18.0'	
					19.9'	
	20.0		MH Dark gray elastic silt, w/shell fragments.		3	
					20.4'	
					21.0'	
			SP-SM Dark gray, fine, poorly graded silty sand, w/shell fragments.		4	
	22.0				21.5'	LAB CLASSIFICATION
					22.8'	Jar Number Classification
					5	1 SP
					23.3'	2 SC
					23.8'	3 CH
					6	4 SC
	24.0		SP Tan, medium, poorly graded sand.		24.3'	5 CH
						6 SC
						7 SM
						8 SP-SM
	26.0				26.0'	
					7	
					26.5'	NOTE: Terminated
					28.5'	hole at predetermined
	29.0		Assumed not Recovered		29.0'	depth at 17.5'
-31.5	31.0					
	31.5		BOTTOM OF HOLE AT 31.5'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2400769 N 224628 NAD 83			11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-02			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. DISTURBED 7 13. UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (4.5' OF WATER)			16. DATE HOLE STARTED 06/19/03 COMPLETED 06/19/03			
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 24.0'			18. TOTAL CORE RECOVERY FOR BORING N/A %			
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION M.L.L.W	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0.0		0.0' TO 4.5' WATER			Time begin vibracoring: 1345 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	4.0					
	-4.5		OCEAN BOTTOM @4.5'		4.5'	Scale changed @16.0'.
	4.5		SM Gray, fine, silty sand, with shell fragments.		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	6.0				5.0'	
	6.3				6.3'	
	8.0		MH Dark gray elastic silt, w/shell fragments.		2	VIBRACORE BORING
	8.5				6.8'	From 0.0' to 19.5' Ran 19.5' Rec: 14.5'
	10.0		SM Dark gray, fine, silty sand, with shell fragments.		8.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom.
	12.0				3	When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	14.0				9.0'	
	15.3				10.0'	
	17.3				4	
	19.0		ML Dark gray sandy silt, with shell fragments.		10.5'	
	21.0				12.0'	
	24.0		SM Gray, fine, silty sand, with shell fragments.		5	LAB CLASSIFICATION
					12.5'	Jar Number Classification
					13.7'	1 SC
					14.2'	2 SC
					15.3'	3 SC
					6	4 SC
					15.8'	5 SC
					17.3'	6 SC
					7	7 SC
					17.8'	8 SC
			SP-SM Tan, fine, poorly graded silty sand.			
			Assumed not Recovered			
			BOTTOM OF HOLE AT 24.0'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2402096 N 224229 NAD 83				11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i>			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-03				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 8 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (5.2' of Water)				16. DATE HOLE STARTED 06/19/03 COMPLETED 06/19/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 20.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 5.2' WATER			Time begin vibracoring: 1358 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-5.2	5.0		OCEAN BOTTOM @5.2'		5.2'	
	5.2	•••••	SP Gray, coarse, poorly graded sand, w/shell fragments.		1 5.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	7.0	•••••			7.0'	
		•••••			2 7.5'	VIBRACORE BORING From 0.0' to 14.8' Ran 14.8' Rec: 13.8'
	9.0	•••••	9.2'		9.2'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom.
		•••••	SM Dark gray, fine, silty sand, with shell fragments.		3 9.7'	When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	11.0	•••••			11.0'	
		•••••			4 11.5'	
		•••••	12.2'		12.2'	
		•••••	SP Gray, coarse, poorly graded sand.		5 12.7'	LAB CLASSIFICATION
	13.0	•••••	13.0'	13.0'	6 13.5'	Jar Number Classification
		•••••	SM Dark gray, fine, silty sand.			1 SP
	15.0	•••••				2 SP
		•••••				3 SC
		•••••				4 SC
		•••••				5 SP
		•••••	16.0'			6 SC
		•••••	CL Gray, sandy, lean clay.		16.0'	7 SC
	17.0	•••••	17.4'		16.5'	8 SC
		•••••	SP-SM Grayish tan, fine, poorly graded silty sand.		17.4'	
		•••••			8 17.9'	
	19.0	•••••	19.0'			NOTE: Terminated hole at predetermined depth at 14.8'.
			Assumed not Recovered			
-20.0	20.0		BOTTOM OF HOLE AT 20.0'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD 2402003 N 222922 NAD83			11. DATUM FOR ELEVATION SHOWN TBM or MSL MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-04			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. DISTURBED 3 13. UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (5.6' of Water)			16. DATE HOLE STARTED 06/19/03 COMPLETED 06/19/03			
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 14.5'			18. TOTAL CORE RECOVERY FOR BORING N/A %			
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 5.6' WATER			Time begin vibracoring: 1409 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-5.6	5.6		OCEAN BOTTOM @5.6'		5.6'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	6.0		SP Tan, coarse, poorly graded sand, with shell fragments.		1	
	7.0				6.1'	VIBRACORE BORING From 0.0' to 8.9' Ran 8.9' Rec: 4.3'
	8.0				7.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	9.0				2	
	9.9				8.0'	
					9.0'	
					3	LAB CLASSIFICATION
					9.5'	Jar Number Classification
						1 SP
						2 SP
						3 SP
-9.9	9.9		Assumed not Recovered			
	12.0					
	14.0					
-14.5	14.5		BOTTOM OF HOLE AT 14.5'			NOTE: Terminated hole at predetermined depth at 8.9'.
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2403766 N 221877 NAD83			11. DATUM FOR ELEVATION SHOWN TBM or MSL MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-05			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. DISTURBED 2 13. UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (6.6' of Water)			16. DATE HOLE STARTED 06/19/03 COMPLETED 06/19/03			
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 11.5'			18. TOTAL CORE RECOVERY FOR BORING N/A %			
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' to 6.6' WATER			Time begin vibracoring: 1424 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-6.6	6.6		OCEAN BOTTOM @6.6'		6.6'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	7.0		SP Tan, coarse, poorly graded sand, T/shell fragments.		1	
	8.0				7.1'	VIBRACORE BORING From 0.0' to 4.9' Ran 4.9' Rec: 2.5'
	9.0				9.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	9.1				2	
	9.5'		Assumed not Recovered		9.5'	
	10.0					LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP
-11.5	11.5		BOTTOM OF HOLE AT 11.5'			
	14.0		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 4.9'.

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2404031N 221629 NAD83				11. DATUM FOR ELEVATION SHOWN TBM or MSL MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-06				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 2 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE		STARTED 06/19/03 COMPLETED 06/19/03	
7. THICKNESS OF OVERBURDEN N/A (4.7' of Water)				17. ELEVATION TOP OF HOLE 0.0' MLLW			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 13.2'				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 4.7' WATER			Time begin vibracoring: 1438 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-4.7	4.7		OCEAN BOTTOM @4.7'		4.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	5.0	•••••	SP Tan, coarse, poorly sand, T/shell fragments.		1	
	6.0	•••••			5.2'	VIBRACORE BORING From 0.0' to 8.5' Ran 8.5 Rec: 2.5'
	7.0	•••••			6.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	7.2	•••••			2	
	8.0		Assumed not Recovered		7.0'	
	9.0					LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP
	11.0					
	13.0					NOTE: Terminated hole at predetermined depth at 8.5'
-13.2	13.2		BOTTOM OF HOLE AT 13.2'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			


DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2402867 N 220177 NAD83			11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-07			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. DISTURBED 2 13. UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (4.8' OF WATER)			16. DATE HOLE STARTED 06/19/03 COMPLETED 06/19/03			
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 10.4'			18. TOTAL CORE RECOVERY FOR BORING N/A %			
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION M&LW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0.0		0.0' TO 4.8' WATER			Time begin vibracoring: 1504 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	4.0					
-4.8	4.8		OCEAN BOTTOM @4.8'		4.8'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	5.0	•••••	SP Tan, coarse, poorly graded sand, with shell fragments.		1	
	6.0	•••••			5.3'	VIBRACORE BORING From 0.0' to 5.6' Ran 5.6' Rec: 2.4'
	7.0	•••••			6.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	7.2	•••••			2	
	8.0		Assumed not Recovered		7.0'	
	9.0					LAB CLASSIFICATION Jar Number Classification 1 SP 2 SM
	10.0					
-10.4	10.4		BOTTOM OF HOLE AT 10.4'			
	11.0		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 5.6'.

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2402857 N 220133 NAD83				11. DATUM FOR ELEVATION SHOWN TBM or MSL			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-08				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 3 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE		STARTED 06/19/03 COMPLETED 06/19/03	
7. THICKNESS OF OVERBURDEN N/A (7.2' of Water)				17. ELEVATION TOP OF HOLE 0.0' MLLW			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 14.7'				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 7.2' WATER			Time begin vibracoring: 1518 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-7.2	7.0				7.2'	
	7.2	•••••	OCEAN BOTTOM @7.2' SP Tan, coarse, poorly graded sand, T/shell fragments.		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	8.0	•••••			7.7'	
	9.0	•••••			9.0'	VIBRACORE BORING From 0.0' to 7.5' Ran 7.5' Rec: 4.5'
	10.0	•••••			2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	11.0	•••••			9.5'	
	12.0	•••••	10.5' with shell fragments.		11.0'	LAB CLASSIFICATION
	13.0	•••••			3	Jar Number Classification
	14.0	•••••			11.5'	1 SP 2 SP 3 SP
-14.7	14.7		Assumed not Recovered			NOTE: Terminated hole at predetermined depth at 7.5'.
			BOTTOM OF HOLE AT 14.7' SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2404341N 220562 NAD83			11. DATUM FOR ELEVATION SHOWN TBM or MSL MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-09			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 1 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (4.6' of Water)			16. DATE HOLE STARTED 06/19/03 COMPLETED 06/19/03			
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 8.6'			18. TOTAL CORE RECOVERY FOR BORING N/A %			
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 4.6' WATER			Time begin vibracoring: 1533 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-4.6	4.6		OCEAN BOTTOM @4.6' SP Tan, coarse, poorly graded sand, with shell fragments. 5.1'		4.6' 1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	5.0		Assumed not Recovered		5.1'	VIBRACORE BORING From 0.0' to 4.0' Ran 4.0' Rec: 0.5' Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	6.0					
	7.0					
	8.0					
-8.6	8.6		BOTTOM OF HOLE AT 8.6' SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			LAB CLASSIFICATION Jar Number Classification 1 SP
						NOTE: Terminated hole at predetermined depth at 4.0'.

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2404346 N 220561 NAD83			11. DATUM FOR ELEVATION SHOWN TBM or MSL MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-9A			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (4.7' of Water)			16. DATE HOLE STARTED 06/19/03 COMPLETED 06/19/03			
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 6.7'			18. TOTAL CORE RECOVERY FOR BORING N/A %			
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' to 4.7' WATER			Time begin vibracoring: 1546 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-4.7	4.7		OCEAN BOTTOM @4.7'			NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	5.0		NO SAMPLE			VIBRACORE BORING From 0.0' to 2.0' Ran 2.0' Rec: 0.0'
	6.0					Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
-6.7	6.7		BOTTOM OF HOLE AT 6.7'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						LAB CLASSIFICATION Jar Number Classification
						NOTE: Terminated hole at predetermined depth at 2.0'.

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2404405 N 220450 NAD83				11. DATUM FOR ELEVATION SHOWN TBM or MSL MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-10				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 2 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE		STARTED 06/19/03 COMPLETED 06/19/03	
7. THICKNESS OF OVERBURDEN N/A (8.4' of Water)				17. ELEVATION TOP OF HOLE 0.0' MLLW			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 16.4'				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g						
0.0	0		0.0' TO 8.4' WATER			Time begin vibracoring: 1558 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.						
-8.0	8.0											
-8.4	8.4		OCEAN BOTTOM @8.4' SP Tan, coarse, poorly graded sand.		8.4' 1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.						
	9.0				8.9'							
	10.0				10.4'	VIBRACORE BORING From 0.0' to 8.0' Ran 8.0' Rec: 2.5' Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.						
	11.0		Assumed not Recovered		2 10.9'							
	12.0					LAB CLASSIFICATION <table><tr><td>Jar Number</td><td>Classification</td></tr><tr><td>1</td><td>SP</td></tr><tr><td>2</td><td>SP</td></tr></table>	Jar Number	Classification	1	SP	2	SP
Jar Number	Classification											
1	SP											
2	SP											
	13.0											
	14.0											
	16.0					NOTE: Terminated hole at predetermined depth at 8.0'						
-16.4	16.4		BOTTOM OF HOLE AT 16.4'									
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM									

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2405652 N 221065 NAD83			11. DATUM FOR ELEVATION SHOWN TBM or MSL MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-11			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. DISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES		N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER		N/A	
7. THICKNESS OF OVERBURDEN N/A (15.3' OF WATER)			16. DATE HOLE		16. STARTED 06/19/03	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW		17. COMPLETED 06/19/03	
9. TOTAL DEPTH OF HOLE 24.6'			18. TOTAL CORE RECOVERY FOR BORING N/A		%	
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION M&LLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0.0		0.0' TO 15.3' WATER			Time begin vibracoring: 1614 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-15.3	15.0		OCEAN BOTTOM @15.3'			
	15.3		NONE			NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	17.0					
	19.0					VIBRACORE BORING From 0.0' to 9.3' Ran 9.3' Rec: 0.0' Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	21.0					
	23.0					LAB CLASSIFICATION Jar Number Classification
-24.6	24.6		BOTTOM OF HOLE AT 24.6'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 9.3'.

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2405649 N 21057 NAD83				11. DATUM FOR ELEVATION SHOWN TBM or MSL			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-11A				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE		STARTED 06/19/03 COMPLETED 06/19/03	
7. THICKNESS OF OVERBURDEN N/A (15.5' of Water)				17. ELEVATION TOP OF HOLE 0.0' MLLW			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 28.5'				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 15.5' WATER			Time begin vibracoring: 1638 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-15.5	15.5		OCEAN BOTTOM @15.5'		15.5'	
			SP Tan, coarse, poorly graded sand, with shell fragments.		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	17.0				16.0'	
			18.0'		17.5'	VIBRACORE BORING
			T/shell fragments.		2	From 0.0' to 13.0'
	19.0				18.0'	Ran 13.0' Rec: 7.6'
					19.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom.
	21.0				3	When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
					20.0'	
	23.0				21.0'	
					4	
					21.5'	
					22.5'	
	23.1'				5	LAB CLASSIFICATION
			Assumed not Recovered		23.0'	Jar Number Classification
						1 SP
	25.0					2 SP
						3 SP
						4 SP
						5 SP
	27.0					
	28.5					
-28.5			BOTTOM OF HOLE AT 28.5'			NOTE: Terminated hole at predetermined depth at 13.0'.
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2405555 N 221223 NAD83				11. DATUM FOR ELEVATION SHOWN TBM or MSL MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-12				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES		N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE		STARTED COMPLETED	
7. THICKNESS OF OVERBURDEN N/A (4.9' of Water)				17. ELEVATION TOP OF HOLE		0.0' MLLW	
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING		N/A %	
9. TOTAL DEPTH OF HOLE 8.7'				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 4.9' WATER			Time begin vibracoring: 1652 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
	4.0					NOTE: TOP OF HOLE is defined as surface of water and compensation is made for the tide such that top of Hole is 0.0' EL MLLW.	
-4.9	4.9		OCEAN BOTTOM @4.9'			VIBRACORE BORING From 0.0' to 3.8' Ran 3.8' Rec: 0.0'	
	5.0		NO SAMPLE			Top of vibracore soil sample is logged as beginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	6.0						
	7.0						
	8.0					LAB CLASSIFICATION Jar Number Classification	
-8.7	8.7		BOTTOM OF HOLE AT 8.7			NOTE: Terminated hole at predetermined depth at 3.8'.	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2405547 N 221237 NAD83			11. DATUM FOR ELEVATION SHOWN TBM or MSL MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-12A			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. DISTURBED 2 13. UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (3.0' of Water)			16. DATE HOLE STARTED 06/19/03 COMPLETED 06/19/03			
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 7.5'			18. TOTAL CORE RECOVERY FOR BORING N/A %			
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' to 3.0' WATER			Time begin vibracoring: 1659 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-3.0	3.0		OCEAN BOTTOM @3.0'		3.0'	
			SP Tan, coarse, poorly graded sand.		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	4.0				3.5'	
	5.0				5.5'	VIBRACORE BORING From 0.0' to 4.5' Ran 4.5' Rec: 3.5'
	6.0				2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	6.5'				6.0'	
	7.0		Assumed not Recovered			
-7.5	7.5		BOTTOM OF HOLE AT 7.5'			LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 4.5'.

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2416114 N 230784 NAD83		11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-105		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 3 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (6.7' Water)		16. DATE HOLE STARTED 06/30/03 COMPLETED 06/30/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 14.5'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 6.7' WATER			Time begin vibracoring: 1237 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-6.7	6.7		OCEAN BOTTOM @6.7' 6.7'		6.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	7	•••••	SP - Tan coarse poorly graded sand		1	
	8	•••••			7.2'	VIBRACORE BORING From 0.0' to 7.8' Ran 7.8' Rec: 5.8'
	9	•••••			9.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	10	•••••			2	
	11	•••••			9.5'	
	12	•••••			11.0'	LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP 3 SP
	13	•••••			3	
	14	•••••			11.5'	
	12.5'		Assumed not Recovered			NOTE: Terminated hole at predetermined depth at 7.8'.
	14.5'		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
			BOTTOM OF HOLE AT 14.5'			

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2416128 N 230715 NAD83			11. DATUM FOR ELEVATION SHOWN <i>NTBM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-106			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. DISTURBED 3 13. UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (7.0' Water)			16. DATE HOLE STARTED 06/30/03 COMPLETED 06/30/03			
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 14.1'			18. TOTAL CORE RECOVERY FOR BORING N/A %			
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 7.0' WATER			Time begin vibracoring: 1331 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	7		OCEAN BOTTOM @7.0'		7.0'	
			SP - Tan coarse poorly graded sand		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
-7.0	6.7				7.5'	
	8					VIBRACORE BORING From 0.0' to 7.1' Ran 7.1' Rec: 4.6'
	9				9.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	10				9.5'	
	11				11.0'	LAB CLASSIFICATION
					3	Jar Number Classification
						1 SP
						2 SP
						3 SP
					11.5'	
	12		Assumed not Recovered			
	13					
	14					NOTE: Terminated hole at predetermined depth at 7.1'.
-14.1	14.1		BOTTOM OF HOLE AT 14.1'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

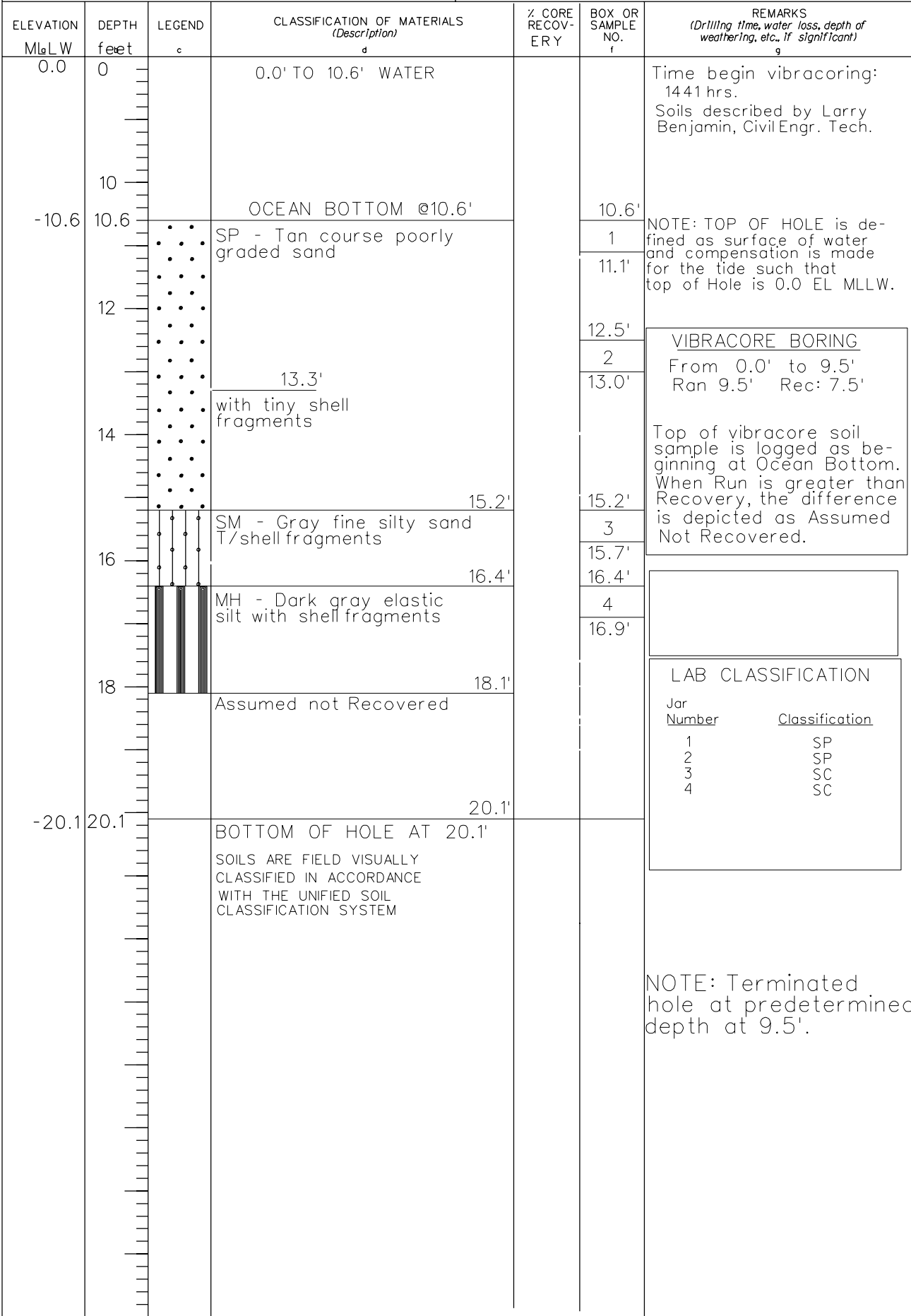
DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2414533 N 229679 NAD83		11. DATUM FOR ELEVATION SHOWN <i>NTBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-107		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED 2 UNDISTURBED 0
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (3.5' Water)		16. DATE HOLE STARTED 06/30/03 COMPLETED 06/30/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 14.1'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 3.5' WATER			Time begin vibracoring: 1356 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-3.5	3.5		OCEAN BOTTOM @3.5' 3.5'		3.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	4	•••••	SP - Tan coarse poorly graded sand		1	
	5	•••••			4.0'	VIBRACORE BORING From 0.0' to 4.0' Ran 4.0' Rec: 3.3'
	6	•••••			5.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	7	•••••			2	
	7.5		Assumed not Recovered		6.0'	
-7.5	7.5		7.5'			LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP
	8		BOTTOM OF HOLE AT 7.5' SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						NOTE: Terminated hole at predetermined depth at 4.0'.

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2414584 N 229647 NAD83		11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-108		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 1 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (8.0' Water)		16. DATE HOLE STARTED 06/30/03 COMPLETED 06/30/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 13.0'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 8.0' WATER			Time begin vibracoring: 1331 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-8.0	8		OCEAN BOTTOM @8.0'		8.0'	
			SP - Tan coarse poorly graded sand		1	
					8.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	9					VIBRACORE BORING From 0.0' to 5.0' Ran 5.0' Rec: 3.7'
	10				10.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	11				2	
					10.5'	
	12		Assumed not Recovered			
						LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP
-13.0	13.0		BOTTOM OF HOLE AT 13.0' SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						NOTE: Terminated hole at predetermined depth at 3.9'.

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2413048 N 228399 NAD83		11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-110		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 4 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (10.6' Water)		16. DATE HOLE STARTED 06/30/03 COMPLETED 06/30/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 20.1'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	



DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2411944 N 226781 NAD83		11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-112		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED 2 UNDISTURBED 0
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (7.1' Water)		16. DATE HOLE STARTED 06/30/03 COMPLETED 06/30/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 12.2'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 7.1' WATER			Time begin vibracoring: 1505 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-7.1	7.1		OCEAN BOTTOM @7.1'		7.1'	
		•••••	SP - Tan course poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	8	•••••			7.6'	
	9	•••••			9.0'	VIBRACORE BORING From 0.0' to 5.1' Ran 5.1' Rec: 3.7'
	10	•••••			2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	11	•••••			9.5'	
	12		Assumed not Recovered			LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP
-12.2	12.2		BOTTOM OF HOLE AT 12.2'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 5.1'.

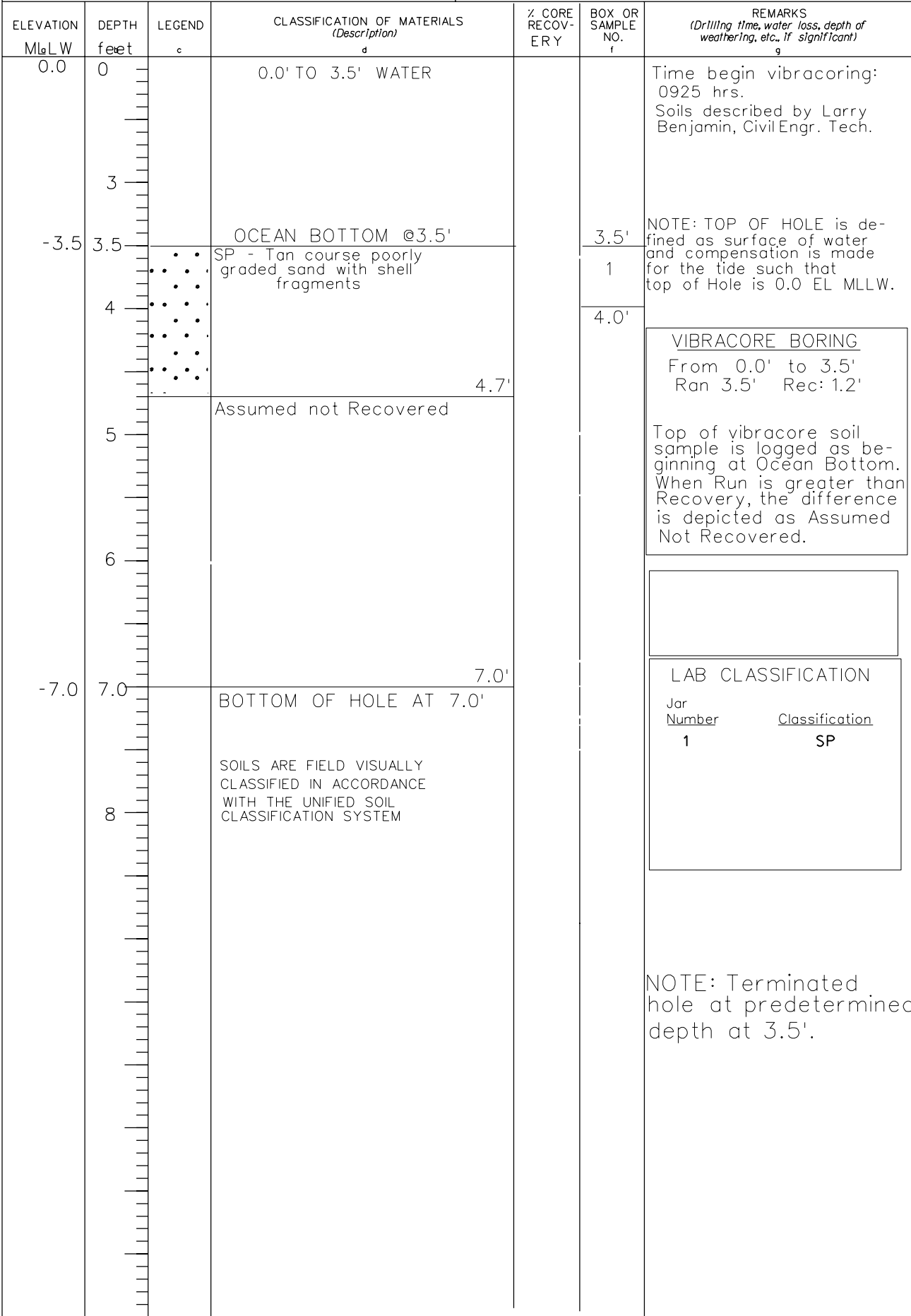
DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2410369 N 225368 NAD83		11. DATUM FOR ELEVATION SHOWN <i>MBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-113		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED UNDISTURBED 0
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (4.4' Water)		16. DATE HOLE STARTED 06/30/03 COMPLETED 06/30/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 7.8'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 4.4' WATER			Time begin vibracoring: 1519 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-4.4	4.4		OCEAN BOTTOM @4.4' Assumed not Recovered			NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	5					
	6					VIBRACORE BORING From 0.0' to 3.4' Ran 3.4' Rec: 0' Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	7					
-7.8	7.8		BOTTOM OF HOLE AT 7.8' SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						LAB CLASSIFICATION Jar Number Classification 1 SP
						NOTE: Terminated hole at predetermined depth at 3.4'.

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2410366 N 225365 NAD83		11. DATUM FOR ELEVATION SHOWN <i>MBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-113A		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED UNDISTURBED 0
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (4.6' Water)		16. DATE HOLE STARTED 06/30/03 COMPLETED 06/30/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 7.6'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 4.6' WATER			Time begin vibracoring: 1527 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-4.6	4.6		OCEAN BOTTOM @4.6' Assumed not Recovered			NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	5					VIBRACORE BORING From 0.0' to 3.0' Ran 3.0' Rec: 0'
	6					Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	7					
-7.6	7.6		BOTTOM OF HOLE AT 7.6'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			LAB CLASSIFICATION Jar Number Classification
						NOTE: Terminated hole at predetermined depth at 3.0'.

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2409998 N 225276 NAD83		11. DATUM FOR ELEVATION SHOWNTBM or MSL MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-113C		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED 1 UNDISTURBED 0
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (3.5' Water)		16. DATE HOLE STARTED 07/02/03 COMPLETED 07/02/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 7.0'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	



DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2410102 N 225259 NAD83		11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-113D		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 2 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (6.7' Water)		16. DATE HOLE STARTED 07/02/03 COMPLETED 07/02/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 10.7'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 6.7' WATER			Time begin vibracoring: 0938 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	6					
	6.7		OCEAN BOTTOM @6.7'		6.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
-6.7	7	• • •	SP - Gray course poorly graded sand with shell fragments		1	
	7	• • •				
	8	• • •			7.2'	VIBRACORE BORING From 0.0' to 4.0' Ran 4.0' Rec: 2.8'
	8	• • •				Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	9	• • •	9.0' Tan		9.0'	
	9	• • •				
			9.5'		2	
	10		Assumed not Recovered		9.5'	
	10					LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP
-10.7	10.7		BOTTOM OF HOLE AT 10.7'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 4.0'.

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2407801N 214985 NAD83		11. DATUM FOR ELEVATION SHOWNTBM or MSL MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-114		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 6 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (36.2' Water)		16. DATE HOLE STARTED 07/01/03 COMPLETED 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 51.5'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 36.2' WATER			Time begin vibracoring: 0807 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-36.2	36.2		OCEAN BOTTOM @36.2'		36.2'	
			SP-SM Gray fine poorly graded silty sand		1	
					36.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	38		38.0' with shell fragments		39.0'	VIBRACORE BORING From 0.0' to 15.3' Ran 15.3' Rec: 15.3'
					2	
	40				39.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
			41.6' T/shell fragments tan		42.0'	
	42				3	
					42.5'	
	44					LAB CLASSIFICATION Jar Number Classification 1 SP-SC 2 SP-SC 3 SP-SM 4 SP-SM 5 SP-SM 6 SP-SM
					45.0'	
					4	
	46				45.5'	
	48				48.0'	
					5	
					48.5'	NOTE: Terminated hole at predetermined depth at 15.3'.
	50				50.0'	
					6	
					50.5'	
-51.5	51.5		51.5' BOTTOM OF HOLE AT 51.5'			
	52		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2408685 N 212623 NAD83		11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-117		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 3 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (40.3' Water)		16. DATE HOLE STARTED 07/01/03 COMPLETED 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 46.3'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 40.3' WATER			Time begin vibracoring: 0905 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-40.3	40.3		OCEAN BOTTOM @40.3'		40.3'	
	40.3	•••	SP - Gray course poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	41	•••			40.8'	
	41.9'	•••			41.9'	VIBRACORE BORING From 0.0' to 6.0' Ran 6.0' Rec: 5.0'
	42	•••	SM - Gray fine silty sand with shell fragments		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	42.4'	•••			42.4'	
	43	•••			43.1'	
	43.1'	•••	SP-SM - Tan medium poorly graded silty sand		3	
	43.6'	•••			43.6'	
	44	•••				LAB CLASSIFICATION Jar Number Classification 1 SP-SM 2 SP-SM 3 SP-SM
	45	•••				
	45.3'	•••				
			Assumed not Recovered			
	46					
-46.3	46.3		BOTTOM OF HOLE AT 46.3'			NOTE: Terminated hole at predetermined depth at 6.0'.
	47		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2410177 N 214057 NAD83		11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-118		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED UNDISTURBED 0
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (41.2' Water)		16. DATE HOLE STARTED 07/01/03 COMPLETED 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 46.2'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 41.2' WATER			Time begin vibracoring: 0926 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-41.2	41.2		OCEAN BOTTOM @41.2' Assumed not Recovered			NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	42					VIBRACORE BORING From 0.0' to 5.0' Ran 5.0' Rec: 0.0'
	43					Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	44					
	45					LAB CLASSIFICATION Jar Number Classification
-46.2	46.2		BOTTOM OF HOLE AT 46.2'			
	47		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 5.0'.

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2410166 N 214103 NAD83		11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-118A		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED UNDISTURBED 0
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (40.5' Water)		16. DATE HOLE STARTED 07/01/03 COMPLETED 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 45.5'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 40.5' WATER			Time begin vibracoring: 1209 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-40.5	40.5		OCEAN BOTTOM @40.5' Assumed not Recovered			NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	41					VIBRACORE BORING From 0.0' to 5.0' Ran 5.0' Rec: 0.0'
	42					Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	43					
	44					LAB CLASSIFICATION Jar Number Classification
	45					
-45.5	45.5		BOTTOM OF HOLE AT 45.5'			
	46		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 5.0'.

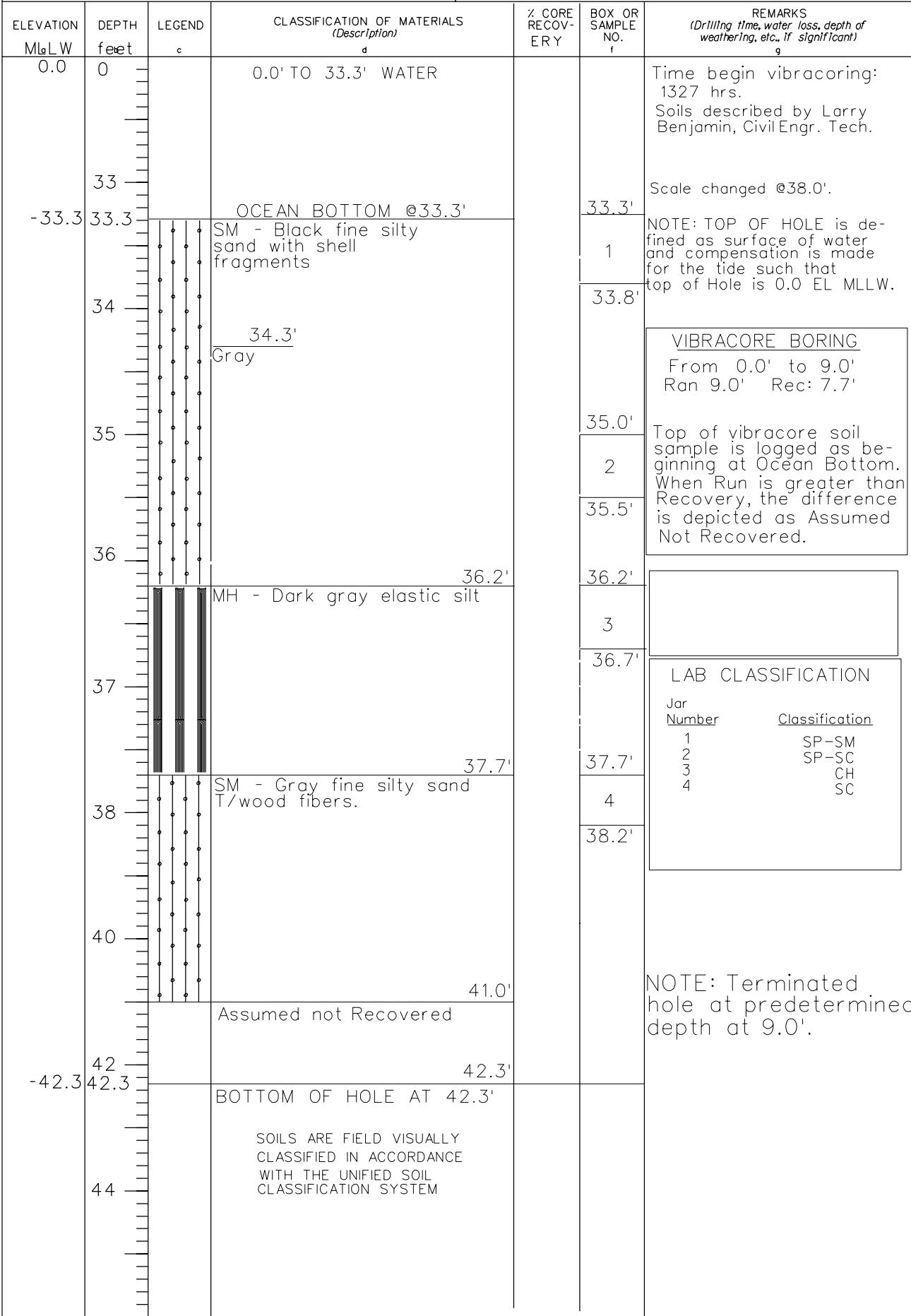
DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2411530 N 214616 NAD83		11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-119		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 2 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (42.1' Water)		16. DATE HOLE STARTED 07/01/03 COMPLETED 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 51.1'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 42.1' WATER			Time begin vibracoring: 1233 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-42.1	42.1		OCEAN BOTTOM @42.1' SP - Tan coarse poorly graded sand		42.1'	
					1	Scale changed @48.0' NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	43				42.6'	
						VIBRACORE BORING From 0.0' to 9.0' Ran 9.0' Rec: 2.4'
	44				44.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
					2	
					44.5'	
	45		Assumed not Recovered			
	46					
						LAB CLASSIFICATION Jar Number Classification 1 SP-SM 2 SP-SM
	47					
	48					
						NOTE: Terminated hole at predetermined depth at 9.0'.
	50					
-51.1	51.1		BOTTOM OF HOLE AT 51.1'			
	52		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

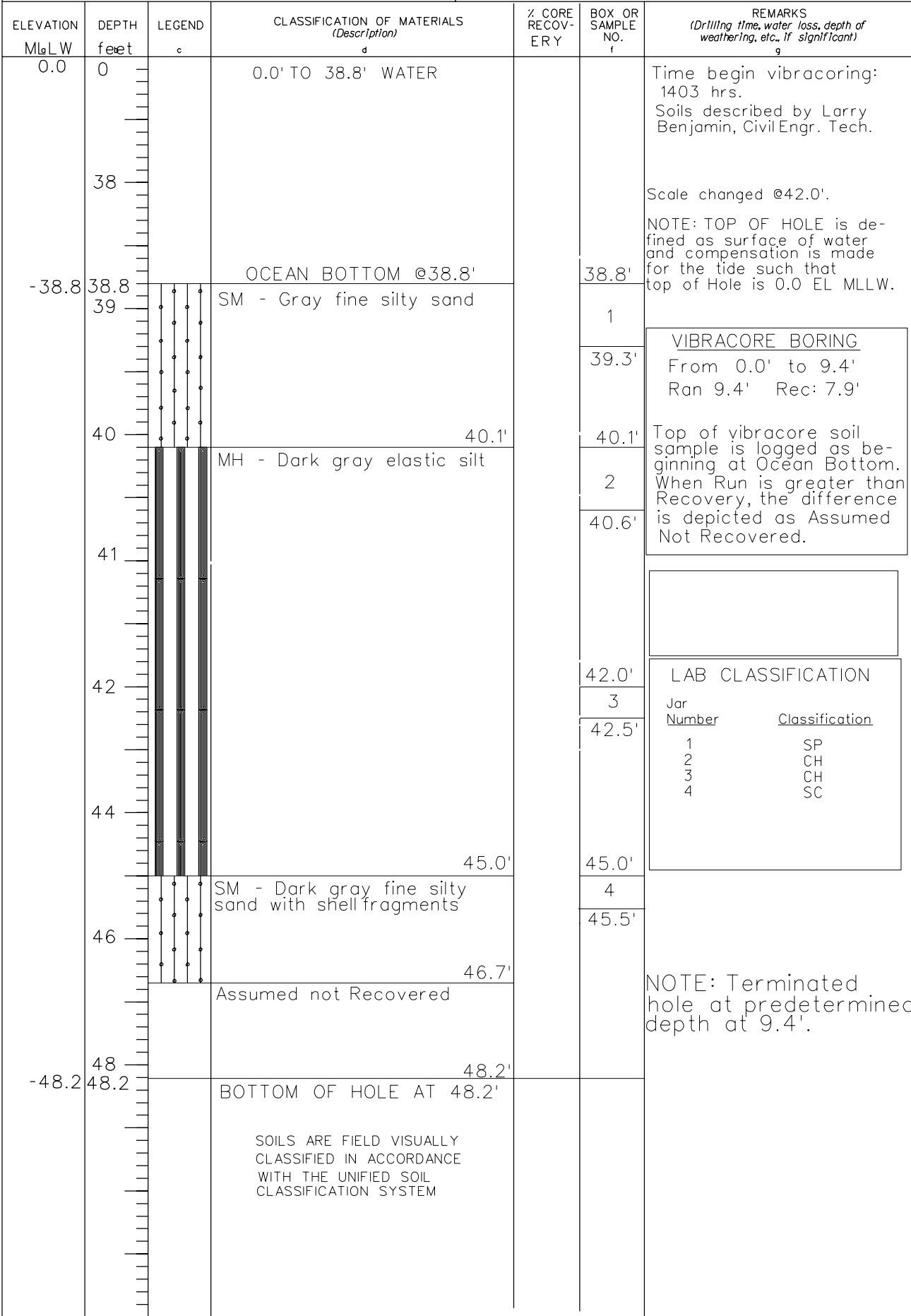
DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2406882 N 210869 NAD83		11. DATUM FOR ELEVATION SHOWN <i>BM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-120		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 2 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (39.5' Water)		16. DATE HOLE STARTED 07/01/03 COMPLETED 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 48.5'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 39.5' WATER			Time begin vibracoring: 1305 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	39					Scale changed @44.0'.
-39.5	39.5		OCEAN BOTTOM @39.5'		39.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	40		SM - Dark gray fine silty sand with shell fragments		1	
	41				40.0'	VIBRACORE BORING From 0.0' to 9.0' Ran 9.0' Rec: 2.4'
	42		SP-SM - Tan fine poorly graded silty sand with shell and rock fragments		41.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	43		Assumed not Recovered		2	
	44				41.5'	
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DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2404767 N 212285 NAD83		11. DATUM FOR ELEVATION SHOWN TBM or MSL MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-121		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 4 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (33.3' Water)		16. DATE HOLE STARTED 07/01/03 COMPLETED 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 42.3'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	



DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2405577 N 209655 NAD83		11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-122		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED 4 UNDISTURBED 0
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (38.8' Water)		16. DATE HOLE STARTED 07/01/03 COMPLETED 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 48.2'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	



DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2402703 N 210407 NAD83		11. DATUM FOR ELEVATION SHOWN <i>NTBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-123		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 3 UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (33.5' Water)		16. DATE HOLE STARTED 07/01/03 COMPLETED 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 43.4'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 33.5' WATER			Time begin vibracoring: 1424 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	33					Scale changed @37.0'.
-33.5	33.5		OCEAN BOTTOM @33.5'		33.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	34		SP - Gray course poorly graded sand with shell fragments		1	
	35				34.0'	VIBRACORE BORING From 0.0' to 9.9' Ran 9.9' Rec: 4.3'
	35		SP-SM - Tan medium poorly graded silty sand T/shell fragments		35.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	36				35.5'	
	37				37.0'	LAB CLASSIFICATION
					3	Jar Number Classification
					37.5'	1 SP
						2 SM
						3 SM
	39		Assumed not Recovered			
	41					
	43					
-43.4	43.4					NOTE: Terminated hole at predetermined depth at 9.9'.
	45		BOTTOM OF HOLE AT 43.4'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2402974 N 207216 NAD83		11. DATUM FOR ELEVATION SHOWN <i>BM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-125		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED 6 UNDISTURBED 0
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (38.9' Water)		16. DATE HOLE STARTED 07/01/03 COMPLETED 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 51.0'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	










ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g																
0.0	0		0.0' TO 38.9' WATER			Time begin vibracoring: 1504 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.																
	38																					
-38.9	38.9		OCEAN BOTTOM @38.9'		38.9'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.																
			SM - Gray fine silty sand with shell fragments		1 39.4'																	
	40																					
					40.9'	VIBRACORE BORING From 0.0' to 12.1' Ran 12.1' Rec: 12.1' Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.																
			SP-SM - Tan fine poorly graded silty sand T/shell fragments		2 41.4'																	
	42																					
					43.0'	LAB CLASSIFICATION <table><tr><td>Jar</td><td>Classification</td></tr><tr><td>Number</td><td></td></tr><tr><td>1</td><td>SP-SM</td></tr><tr><td>2</td><td>SP-SM</td></tr><tr><td>3</td><td>SP-SM</td></tr><tr><td>4</td><td>SP-SM</td></tr><tr><td>5</td><td>SM</td></tr><tr><td>6</td><td>SM</td></tr></table>	Jar	Classification	Number		1	SP-SM	2	SP-SM	3	SP-SM	4	SP-SM	5	SM	6	SM
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					50.5'																	
-51.0	51.0		BOTTOM OF HOLE AT 51.0'		6 51.0'	NOTE: Terminated hole at predetermined depth at 12.1'.																
	52		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM																			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2398297 N 202867 NAD83				11. DATUM FOR ELEVATION SHOWN <i>NBW</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-127				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 3		DISTURBED : 0 UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A		15. ELEVATION GROUND WATER N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE : STARTED : 07/01/03 : COMPLETED : 07/01/03		17. ELEVATION TOP OF HOLE 0.0' MLLW	
7. THICKNESS OF OVERBURDEN N/A (39.8' Water)				18. TOTAL CORE RECOVERY FOR BORING N/A %		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	
8. DEPTH DRILLED INTO ROCK 0.0'							
9. TOTAL DEPTH OF HOLE 45.7'							
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 39.8' WATER			Time begin vibracoring: 1553 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
	39					NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
-39.8	39.8		OCEAN BOTTOM @39.8'		39.8'		
	40		SP-SM - Gray fine poorly graded silty sand with shell fragments		1	VIBRACORE BORING From 0.0' to 5.9' Ran 5.9' Rec: 4.9'	
	41				40.3'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	42				42.3'		
	43		42.3' Tan, T/shell fragments.		2		
	44				42.8'	LAB CLASSIFICATION	
						Jar Number Classification 1 SP 2 SP-SM 3 SP-SM	
	45				44.0'		
					3		
	46				44.5'		
			Assumed not Recovered				
	45.7		45.7'			NOTE: Terminated hole at predetermined depth at 5.9'.	
			BOTTOM OF HOLE AT 45.7'				
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2400223 N 200904 NAD83				11. DATUM FOR ELEVATION SHOWN <i>B.M.</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-128				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 4 : 0			
5. NAME OF DRILLER LESTER GAUGH CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (43.8' Water)				16. DATE HOLE : STARTED : 07/01/03 : COMPLETED : 07/01/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 51.1'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 43.8' WATER			Time begin vibracoring: 1625 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	43					Scale changed @49.0'.
-43.8	43.8		OCEAN BOTTOM @43.8'		43.8'	NOTE: TOP OF HOLE is defined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	44		SM - Dark gray fine silty sand with shell fragments		1	
	45				44.3'	VIBRACORE BORING From 0.0' to 7.3' Ran 7.3' Rec: 7.3'
	46				45.6'	Top of vibracore soil sample is logged as beginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	47		SP-SM - Gray fine poorly graded silty sand		2	
	48				46.1'	
	49				47.3'	LAB CLASSIFICATION
	50		MH - Dark gray elastic silt with 2" sand lenses		3	Jar Number Classification 1 SC 2 SP-SM 3 CH 4 SP
	51				47.8'	
	51.1		SP - White, coarse poorly graded sand with tiny shell fragments		4	
-51.1	51.1		BOTTOM OF HOLE AT 51.1'		50.6'	NOTE: Terminated hole at predetermined depth at 7.3'.
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2401453 N 202085 NAD83		11. DATUM FOR ELEVATION SHOWN <i>MBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-129		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 5 : UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (40.9' Water)		16. DATE HOLE : STARTED : 07/01/03 : COMPLETED : 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 49.2'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 40.9' WATER			Time begin vibracoring: 1643 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	40					Scale changed @44.0'.
						NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
-40.9	40.9		OCEAN BOTTOM @40.9'		40.9'	
	41		SP - Light gray course poorly graded sand with shell fragments		1	VIBRACORE BORING
					41.4'	From 0.0' to 8.3' Ran 8.3' Rec: 8.3'
	42				42.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	43				2	
	43.4'				43.0'	
			SM - Gray fine silty sand with MH lenses and T/shell fragments		3	
	44				43.9'	LAB CLASSIFICATION
	44.3'				44.3'	Jar Number Classification
			SP - Light gray course poorly graded sand with MH lenses and wood fibers		4	1 SP
	46				44.8'	2 SP
						3 SC
	47.6'					4 SP-SC
			MH - Dark gray elastic silt with wood fibers and course grain sizes at the bottom.		5	5 CH
	48				47.6'	
	48.1'				48.1'	
-49.2	49.2		49.2'			NOTE: Terminated hole at predetermined depth at 8.3'.
			BOTTOM OF HOLE AT 49.2'			
	50		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2404306 N 204848 NAD83			11. DATUM FOR ELEVATION SHOW <i>MBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-130			13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN : DISTURBED : UNDISTURBED 4 : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (42.6' Water)			16. DATE HOLE : STARTED : COMPLETED : 07/01/03 : 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 50.9'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION Msl W	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 42.6' WATER			Time begin vibracoring: 1706 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	42					Scale changed @47.0'.
-42.6	42.6		OCEAN BOTTOM @42.6'		42.6'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	43		SP-SM - Gray medium poorly graded silty sand with shell fragments		1	
	44				43.1'	VIBRACORE BORING From 0.0' to 8.3' Ran 8.3' Rec: 8.3'
	45				45.1'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	46		SM - Gray fine silty sand with MH lenses and T/shell fragments		2	
	47				45.6'	
	48					LAB CLASSIFICATION
	49				47.0'	Jar Number Classification
	50				3	1 SP-SM
	51				47.5'	2 SP
						3 SP
						4 SP
					49.0'	
					49.5'	NOTE: Terminated hole at predetermined depth at 8.3'.
-50.9	51		BOTTOM OF HOLE AT 50.9'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2407242 N 207553 NAD83		11. DATUM FOR ELEVATION SHOWN <i>NTBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-131		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 3 : UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (42.2' Water)		16. DATE HOLE : STARTED : 07/01/03 : COMPLETED : 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 48.8'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 42.2' WATER			Time begin vibracoring: 1734 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-42.2	42.2		OCEAN BOTTOM @42.2'		42.2'	
			SP - Gray course poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	43				42.7'	
	44					VIBRACORE BORING From 0.0' to 6.6' Ran 6.6' Rec: 6.6'
	44.7				44.7'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	45		MH - Dark gray elastic silt with sand layers		2	
	46				45.2'	
	47				47.0'	LAB CLASSIFICATION
	47		SP - Tan course poorly graded sand		3	Jar Number Classification 1 GP 2 CH 3 SP
	48				47.5'	
-48.8	48.8					NOTE: Terminated hole at predetermined depth at 6.6'.
	49		BOTTOM OF HOLE AT 48.8'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2408912 N 209079 NAD83		11. DATUM FOR ELEVATION SHOWN <i>NTBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-132		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 3 : UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (42.2' Water)		16. DATE HOLE : STARTED : 07/01/03 : COMPLETED : 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 47.6'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 42.2' WATER			Time begin vibracoring: 1759 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-42.2	42.2		OCEAN BOTTOM @42.2'		42.2'	
			SP - Gray coarse poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	43				42.7'	
					43.8'	VIBRACORE BORING From 0.0' to 5.4' Ran 5.4' Rec: 5.4'
	44		SP-SM - Tan fine poorly graded silty sand		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	45				44.3'	
	46				46.0'	
	47				3	LAB CLASSIFICATION
					46.5'	Jar Number Classification 1 SP 2 SP-SM 3 SP-SM
-47.6	47.6		BOTTOM OF HOLE AT 47.6'			
	48		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 5.4'.

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2410632 N 210637 NAD83		11. DATUM FOR ELEVATION SHOWN <i>(B.M. or MSL)</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-133		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 4 : UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (44.1' Water)		16. DATE HOLE : STARTED : 07/01/03 : COMPLETED : 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 51.6'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 44.1' WATER			Time begin vibracoring: 1817 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-44.1	44.1		OCEAN BOTTOM @44.1'		44.1'	
			SP - Tan coarse poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	45				44.6'	
					45.5'	VIBRACORE BORING From 0.0' to 7.5' Ran 7.5' Rec: 7.1'
	46		SM - Gray fine silty sand with shell fragments		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	47				46.0'	
			SP-SM - Tan fine poorly graded silty sand		3	
					47.0'	
	48				47.5'	
					49.0'	LAB CLASSIFICATION
	49				4	Jar Number Classification 1 SP 2 SC 3 SM 4 SP-SM
	50				49.5'	
	51					NOTE: Terminated hole at predetermined depth at 7.5'.
					51.2'	
			Assumed not Recovered			
-51.6	51.6				51.6'	
	52		BOTTOM OF HOLE AT 51.6'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2412256 N 212152 NAD83				11. DATUM FOR ELEVATION SHOWN <i>NTBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-134				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2		DISTURBED : 0 UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE : STARTED : 07/01/03		COMPLETED : 07/01/03	
7. THICKNESS OF OVERBURDEN N/A (41.4' Water)				17. ELEVATION TOP OF HOLE 0.0' MLLW			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 46.4'				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 41.4' WATER			Time begin vibracoring: 1837 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-41.4	41.4		OCEAN BOTTOM @41.4'		41.4'	
			SP - Gray course poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	41.9				41.9'	
	42					
	43		43.0'		43.0'	
			Tan, T/shell fragments		2	VIBRACORE BORING From 0.0' to 5.0' Ran 5.0' Rec: 3.5'
	44				43.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	45		44.9'			
			Assumed not Recovered			
	46					
	46.4		46.4'			
			BOTTOM OF HOLE AT 46.4'			
	47		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 5.0'.

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2409681N 216446 NAD83				11. DATUM FOR ELEVATION SHOWN <i>NTBM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-135				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 6 : DISTURBED : 0 : UNDISTURBED			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (36.7' Water)				16. DATE HOLE : STARTED : 07/01/03 : COMPLETED : 07/01/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 49.7'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			
ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 36.7' WATER			Time begin vibracoring: 1904 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
	36						
-36.7	36.7		OCEAN BOTTOM @36.7'		36.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
			SP - Gray coarse poorly graded sand with shell fragments		1		
	38				37.2'		
	40				39.0'	VIBRACORE BORING From 0.0' to 13.0' Ran 13.0' Rec: 12.8'	
					2		
	42				39.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom.	
					40.2'	When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	44				3		
			SP-SM - Tan fine poorly graded silty sand T/shell fragments		40.7'		
	46						
					43.0'		
	48				4		
					43.5'	LAB CLASSIFICATION	
						Jar Number Classification	
					45.0'	1 SP	
					5	2 SP	
						3 SP-SM	
					45.5'	4 SM	
						5 SM	
						6 SM	
					47.5'		
					6		
	49.7				48.0'	NOTE: Terminated hole at predetermined depth at 13.0'.	
-49.7	49.7		Assumed not Recovered 49.7'				
	50		BOTTOM OF HOLE AT 49.7'				
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2409536 N 216575 NAD83		11. DATUM FOR ELEVATION SHOWN <i>(B.M. or MSL)</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-136		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 1 : DISTURBED : 0 : UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (36.8' Water)		16. DATE HOLE : STARTED : 07/01/03 : COMPLETED : 07/01/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 41.8'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 36.8' WATER			Time begin vibracoring: 1914 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	36					
-36.8	36.8		OCEAN BOTTOM @36.8'		36.8'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	37	• • • • •	SP-SM - Tan fine poorly graded silty sand with shell fragments		1	
	38	• • • • •			37.3'	VIBRACORE BORING From 0.0' to 5.0' Ran 5.0' Rec: 1.5'
	39					Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	40		Assumed not Recovered			
	41					
-41.8	41.8					
	42		BOTTOM OF HOLE AT 41.8'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 5.0'.

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2407185 N 222496 NAD83			11. DATUM FOR ELEVATION SHOWN <i>BNW</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-137			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 4 : UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (3.7' Water)			16. DATE HOLE : STARTED : 07/02/03 : COMPLETED : 07/02/03	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 10.5'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 3.7' WATER			Time begin vibracoring: 0756 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-3.7	3.7		OCEAN BOTTOM @3.7'		3.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	4	•••••	SP - Grayish white coarse poorly graded sand T/shell fragments		1	
	5	•••••			4.2'	VIBRACORE BORING From 0.0' to 6.8' Ran 6.8' Rec: 6.8'
	6	•••••			5.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	6.5'		Tan		2	
	7	•••••			6.0'	
	8	•••••			7.5'	LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP 3 SP 4 SP
	8	•••••			3	
	9	•••••			8.0'	
	10	•••••			10.0'	NOTE: Terminated hole at predetermined depth at 6.8'.
-10.5	10.5	•••••			4	
			BOTTOM OF HOLE AT 10.5'		10.5'	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2407377 N 222409 NAD83				11. DATUM FOR ELEVATION SHOWN <i>MBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-137A				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2 : 0			
5. NAME OF DRILLER LESTER GAUGH CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (7.5' Water)				16. DATE HOLE : STARTED : 07/02/03 : COMPLETED : 07/02/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 10.7'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN							

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVER- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 7.5' WATER			Time begin vibracoring: 0812 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-7.5	7.5		OCEAN BOTTOM @7.5' SP - Grayish white coarse poorly graded sand		7.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	8				1	
	8				8.0'	VIBRACORE BORING From 0.0' to 3.2' Ran 3.2' Rec: 3.2'
	9				9.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	10				2	
	10				10.0'	
-10.7	10.7		10.7'			
	11		BOTTOM OF HOLE AT 10.7'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP
						NOTE: Terminated hole at predetermined depth at 3.2'.

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2408640 N 223907 NAD83				11. DATUM FOR ELEVATION SHOWN <i>MB</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-138				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED : 2 UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGH CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (5.8' Water)				16. DATE HOLE : STARTED : 07/02/03 : COMPLETED : 07/02/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 9.6'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION Msl W	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 5.8' WATER			Time begin vibracoring: 0840 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-5.8	5.8		OCEAN BOTTOM @5.8'		5.8'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	6		SP - Grayish white coarse poorly graded sand T/shell fragments		1	
					6.3'	VIBRACORE BORING From 0.0' to 3.8' Ran 3.8' Rec: 3.8'
	7					Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	8				8.0'	
					2	
					8.5'	
	9					LAB CLASSIFICATION
						Jar Number Classification
						1 SP-SM
						2 SP
-9.6	9.6		9.6'			
	10		BOTTOM OF HOLE AT 9.6'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						NOTE: Terminated hole at predetermined depth at 3.8'.

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2408751N 223888 NAD83		11. DATUM FOR ELEVATION SHOW BM or MSL MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-138A		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2 : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (8.1' Water)		16. DATE HOLE : STARTED : 07/02/03 : COMPLETED : 07/02/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 11.1'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION Msl W	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 8.1' WATER			Time begin vibracoring: 0900 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-8.1	8.1		OCEAN BOTTOM @8.1'		8.1'	
			SP - Gray coarse poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	9				8.6'	
	10				10.0'	VIBRACORE BORING From 0.0' to 3.0' Ran 3.0' Rec: 3.0'
					2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
-11.1	11.1		11.1'		10.5'	
	12		BOTTOM OF HOLE AT 11.1'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP
						NOTE: Terminated hole at predetermined depth at 3.0'.

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2406144 N 217430 NAD83				11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-139				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 3 : UNDISTURBED : 0			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (6.5' Water)				16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 11.5'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 6.5' WATER			Time begin vibracoring: 0757 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	6					
-6.5	6.5		OCEAN BOTTOM @6.5' SP - Gray fine medium poorly graded sand T/shell fragments		6.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	7				1	
	8				7.0'	VIBRACORE BORING From 0.0' to 5.0' Ran 5.0' Rec: 5.0'
	9				8.5	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	10				2	
	11				9.0'	
	12				10.5	
	13				3	
	14				11.0'	
-11.5	11.5		BOTTOM OF HOLE AT 11.5'			
	12		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
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DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2404649.78 N 217699.23 NAD83				11. DATUM FOR ELEVATION SHOW <i>NTBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-140				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED : UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A		16. DATE HOLE : STARTED : COMPLETED : 07/08/03 : 07/08/03	
7. THICKNESS OF OVERBURDEN N/A (11.1' Water)				17. ELEVATION TOP OF HOLE 0.0' MLLW			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 14.7'				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 11.1' WATER			Time begin vibracoring: 0815 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-11.0	11.0 11.1		OCEAN BOTTOM @ 11.1' (SP) MATERIAL FELL OUT WHILE BRINGING ON DECK			NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0' EL MLLW.
	12.0					
	13.0					VIBRACORE BORING From 0.0' to 3.6' Ran 3.6' Rec: 0.0' Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	14.0					
-14.7	14.7		BOTTOM OF HOLE AT 14.7'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			LAB CLASSIFICATION Jar Number Classification
						NOTE: Terminated hole at predetermined depth at

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2404641N 217702 NAD83				11. DATUM FOR ELEVATION SHOWN <i>WTM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-140A				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : UNDISTURBED : 0			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (10.4' Water)				16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 14.2'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 10.4' WATER			Time begin vibracoring: 0820 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-10.4	10.4		OCEAN BOTTOM @10.4' (SP) MATERIAL FELL OUT WHILE BRINGING ON DECK.			NOTE: TOP OF HOLE is defined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	11.0					<div>VIBRACORE BORING</div> <div>From 0.0' to 5.0'</div> <div>Ran 5.0' Rec: 5.0'</div> <div>Top of vibracore soil sample is logged as beginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.</div>	
	12.0						
	13.0						
	14.0						
-14.2	14.2		BOTTOM OF HOLE AT 14.2'			<div>LAB CLASSIFICATION</div> <div>Jar Number Classification</div>	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 3.8'.	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2403599 N 217481 NAD83				11. DATUM FOR ELEVATION SHOWN <i>NTBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-141				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 3 : UNDISTURBED : 0			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (7.8' Water)				16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 12.8'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 7.8' WATER			Time begin vibracoring: 0846 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	7					
-7.8	7.8		OCEAN BOTTOM @7.8'		7.8'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	8	•••••	SP - Grayish white coarse poorly graded sand T/shell fragments		1	
	8.3	•••••			8.3'	VIBRACORE BORING From 0.0' to 5.0' Ran 5.0' Rec: 5.0'
	9	•••••				Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	10	•••••			10.0	
	10.5	•••••			2	
	11	•••••			10.5'	
	12	•••••			12.0	LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP 3 SP
	12.5	•••••			3	
-12.8	12.8	•••••			12.5'	
	13		BOTTOM OF HOLE AT 12.8'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 5.0'.

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2402640 N 217391 NAD83				11. DATUM FOR ELEVATION SHOW <i>RTM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-142				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 3		DISTURBED : 3 UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (11.4' Water)				16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 15.8'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN							

ELEVATION M to L W	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 11.4' WATER			Time begin vibracoring: 0903 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-11.4	11.4		OCEAN BOTTOM @11.4' SP - Grayish coarse poorly graded sand with tiny shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	11.9'					VIBRACORE BORING From 0.0' to 4.4' Ran 4.4' Rec: 4.4'
	13.5				2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	14.0'					
	15.3					LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP 3 SP
-15.8	15.8		15.8'		3	
	16		BOTTOM OF HOLE AT 15.8'		15.8'	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						NOTE: Terminated hole at predetermined depth at 4.4'.

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2401814 N 218358 NAD83				11. DATUM FOR ELEVATION SHOWN <i>MBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-143				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2		DISTURBED : 0 UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (13.7' Water)				16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 17.5'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 13.7' WATER			Time begin vibracoring: 0920 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	13					
-13.7	13.7		OCEAN BOTTOM @13.7'		13.7'	NOTE: TOP OF HOLE is defined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	14	•••••	SP - Gray course poorly graded sand with shell fragments		1	
	15	•••••			14.2'	VIBRACORE BORING From 0.0' to 3.8' Ran 3.8' Rec: 3.8'
	16	•••••			16.0'	Top of vibracore soil sample is logged as beginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	17	•••••			16.5'	
-17.5	17.5		17.5'			LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP
	18		BOTTOM OF HOLE AT 17.5'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						NOTE: Terminated hole at predetermined depth at 3.8'.

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2401932 N 219357 NAD83				11. DATUM FOR ELEVATION SHOWN <i>BM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-144				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 5 : 0			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (13.5' Water)				16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 19.7'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			
ELEVATION Msl feet	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 13.5' WATER			Time begin vibracoring: 0940 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-13.5	13.5		OCEAN BOTTOM @13.5'		13.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0' EL MLLW.	
	14		SP - Tan coarse poorly graded sand with shell fragments		1		
	14.5		MH - Dark gray elastic silt with shell fragments		2	VIBRACORE BORING From 0.0' to 6.2' Ran 6.2' Rec: 6.2'	
	15				15.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	16		SM - Dark gray fine silty sand		3		
	17		SP-SM - Gray fine poorly graded silty sand T/tiny shell fragments		4	LAB CLASSIFICATION Jar Number Classification 1 SP 2 SM 3 SC 4 SP-SM 5 SP	
-19.7	19.7		BOTTOM OF HOLE AT 19.7'		5	NOTE: Terminated hole at predetermined depth at 6.2'.	
	20		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2417324 N 232237 NAD83				11. DATUM FOR ELEVATION SHOWN <i>FBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-145				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 3 : UNDISTURBED : 0			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (3.1' Water)				16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 7.5'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			
ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 3.1' WATER			Time begin vibracoring: 1040 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-3.1	3.1		OCEAN BOTTOM @3.1' SP - Tan course poorly graded sand T/shell fragments		3.1'		
					1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	4				3.6'		
	5		5.1' With shell fragments		5.0'	VIBRACORE BORING From 0.0' to 4.4' Ran 4.4' Rec: 4.4'	
	6				2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	7				5.5'		
	7.5		7.5'		7.0'	LAB CLASSIFICATION	
	8		BOTTOM OF HOLE AT 7.5'		3	Jar Number Classification 1 SP 2 SP 3 SP	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM		7.5'	NOTE: Terminated hole at predetermined depth at 4.4'.	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2417388 N 232204 NAD83				11. DATUM FOR ELEVATION SHOWN <i>(BM or MSL)</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-145A				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 3 : 0			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (6.4' Water)				16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 10.6'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN							

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 6.4' WATER			Time begin vibracoring: 1049 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-6.4	6.4		OCEAN BOTTOM @6.4' SP - Tan coarse poorly graded sand with shell fragments		6.4'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	7				6.9'	
	8				8.0'	VIBRACORE BORING From 0.0' to 4.2' Ran 4.2' Rec: 4.2'
	9				8.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	10				10.0'	
	10.6				3	LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP 3 SP
-10.6	10.6		BOTTOM OF HOLE AT 10.6'		10.5'	
	11		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						NOTE: Terminated hole at predetermined depth at 4.2'.

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2418858 N 233443 NAD83			11. DATUM FOR ELEVATION SHOWN <i>NTBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-146A			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2 : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (7.7' Water)			16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 13.7'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 7.7' WATER			Time begin vibracoring: 1122 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-7.7	7.7		OCEAN BOTTOM @7.7'		7.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	8		SP - Tan coarse poorly graded sand		1	
	9				8.2'	VIBRACORE BORING From 0.0' to 6.0' Ran 6.0' Rec: 3.0'
	10		10.0' T/shell fragments		10.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	11		Assumed not Recovered		10.5'	
	12					LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP
	13					
-13.7	13.7		13.7'			NOTE: Terminated hole at predetermined depth at 6.0'.
	14		BOTTOM OF HOLE AT 13.7'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2420340 N 234509 NAD83		11. DATUM FOR ELEVATION SHOW <i>TBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-147		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 3 : UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (4.8' Water)		16. DATE HOLE : STARTED 07/08/03 : COMPLETED 07/08/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 10.7'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 4.8' WATER			Time begin vibracoring: 1140 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	4					
-4.8	4.8		OCEAN BOTTOM @4.8'		4.8'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0' EL MLLW.
	5	•••••	SP - Gray medium poorly graded sand		1	
	5.3'	•••••			5.3'	VIBRACORE BORING From 0.0' to 5.9' Ran 5.9' Rec: 4.3'
	6	•••••			6.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	7	•••••			2	
	7	•••••			7.0'	
	8	•••••				
	8	•••••			8.5'	LAB CLASSIFICATION
	9	•••••			3	Jar Number Classification 1 SP 2 SP 3 SP
	9		Assumed not Recovered		9.0'	
	10					
-10.7	10.7					NOTE: Terminated hole at predetermined depth at 5.9'.
	11		BOTTOM OF HOLE AT 10.7'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2420418 N 2344500 NAD83				11. DATUM FOR ELEVATION SHOWN <i>MBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-147A				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2		DISTURBED : UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A		16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03	
7. THICKNESS OF OVERBURDEN N/A (8.0' Water)				17. ELEVATION TOP OF HOLE 0.0' MLLW			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 12.9'				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 8.0' WATER			Time begin vibracoring: hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-8.0	8.0		OCEAN BOTTOM @8.0'		8.0'	
			SP - Tan coarse poorly graded sand		1	
					8.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	9					
	10		10.0' T/shell fragments		10.0'	VIBRACORE BORING From 0.0' to 4.9' Ran 4.9' Rec: 3.5'
			10.8' with shell fragments		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	11				10.5'	
			11.5'			
	12		Assumed not Recovered			
						LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP
-12.9	12.9		12.9'			
	13		BOTTOM OF HOLE AT 12.9'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						NOTE: Terminated hole at predetermined depth at 4.9'.

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2421726 N 235951 NAD83				11. DATUM FOR ELEVATION SHOWN <i>NTBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-148				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 3 : UNDISTURBED 0			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (2.8' Water)				16. DATE HOLE : STARTED 07/08/03 : COMPLETED 07/08/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 9.8'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 2.8' WATER			Time begin vibracoring: 1214 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-2.8	2.8		OCEAN BOTTOM @2.8'		2.8'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	3	•••••	SP-SM - Gray fine poorly graded silty sand		1	
	3.3				3.3'	VIBRACORE BORING From 0.0' to 7.0' Ran 7.0' Rec: 4.6'
	4	•••••			4.7'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	5	•••••	SP - Tan coarse poorly graded sand T/shell fragments		2	
	5.2				5.2'	
	6	•••••			6.5'	
	7	•••••			3	
	7.4				7.0'	
	8		Assumed not Recovered			
	9					
	9.8					
-9.8	9.8		BOTTOM OF HOLE AT 9.8'			
	10		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2421791 N 235910 NAD83				11. DATUM FOR ELEVATION SHOWN <i>WBM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-148A				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2 : DISTURBED : 0 : UNDISTURBED			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (5.0' Water)				16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 10.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 5.0' WATER			Time begin vibracoring: 1225 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-5.0	5.0		OCEAN BOTTOM @5.0' SP - Gray course poorly graded sand		5.0'		
					1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
					5.5'		
	6		6.0' Tan T/shell fragments				
					7.0'	VIBRACORE BORING From 0.0' to 5.0' Ran 5.0' Rec: 3.0'	
	7				2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
					7.5'		
	8		8.0'				
			Assumed not Recovered				
	9						
						LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP	
-10.0	10		10.0' BOTTOM OF HOLE AT 10.0'				
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				
	11					NOTE: Terminated hole at predetermined depth at 5.0'.	

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2423244 N 237477 NAD83			11. DATUM FOR ELEVATION SHOWN <i>MBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-149			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED : 2 UNDISTURBED :	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (7.0' Water)			16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 13.2'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 7.0' WATER			Time begin vibracoring: 1253hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-7.0	7.0		OCEAN BOTTOM @7.0'		7.0'	
			SP - Gray coarse poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	8				7.5'	
	9				9.5'	VIBRACORE BORING From 0.0' to 6.2' Ran 6.2' Rec: 4.0' Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	10				2	
	11				10.0'	
			Assumed not Recovered			LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP
	12					
	13					
-13.2	13.2		BOTTOM OF HOLE AT 13.2'			NOTE: Terminated hole at predetermined depth at 6.2'.
	14		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2423306 N 237489 NAD83				11. DATUM FOR ELEVATION SHOW <i>TBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-149A				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2		DISTURBED : UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (6.7' Water)				16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 11.7'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 6.7' WATER			Time begin vibracoring: 1305 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-6.7	6.7		OCEAN BOTTOM @6.7'		6.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0' EL MLLW.
	7		SP - Gray coarse poorly graded sand		1	
	7.7'		7.7'		7.2'	VIBRACORE BORING From 0.0' to 5.0' Ran 5.0' Rec: 2.8'
	8		with shell fragments			Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	9				9.0'	
	9.5'				2	
	10		Assumed not Recovered		9.5'	
	11					LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP
-11.7	11.7		BOTTOM OF HOLE AT 11.7'			
	12		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 5.0'.

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2424588 N 238643 NAD83		11. DATUM FOR ELEVATION SHOWN <i>BM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-150		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 3 : DISTURBED : UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (3.1' Water)		16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 10.6'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 3.1' WATER			Time begin vibracoring: 1319 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-3.1	3.1		OCEAN BOTTOM @3.1'		3.1'	
			SP - Tan coarse poorly graded sand		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	4				3.6'	
	5				5.0'	VIBRACORE BORING From 0.0' to 7.5' Ran 7.5' Rec: 5.0'
	6		6.0'		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	7		with shell fragments		5.5'	
	8				7.0'	LAB CLASSIFICATION
					3	Jar Number Classification
					7.5'	1 SP 2 SP 3 SP
	8		8.1'			
	9		Assumed not Recovered			
	10					NOTE: Terminated hole at predetermined depth at 7.5'.
-10.6	10.6		10.6'			
	11		BOTTOM OF HOLE AT 10.6'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

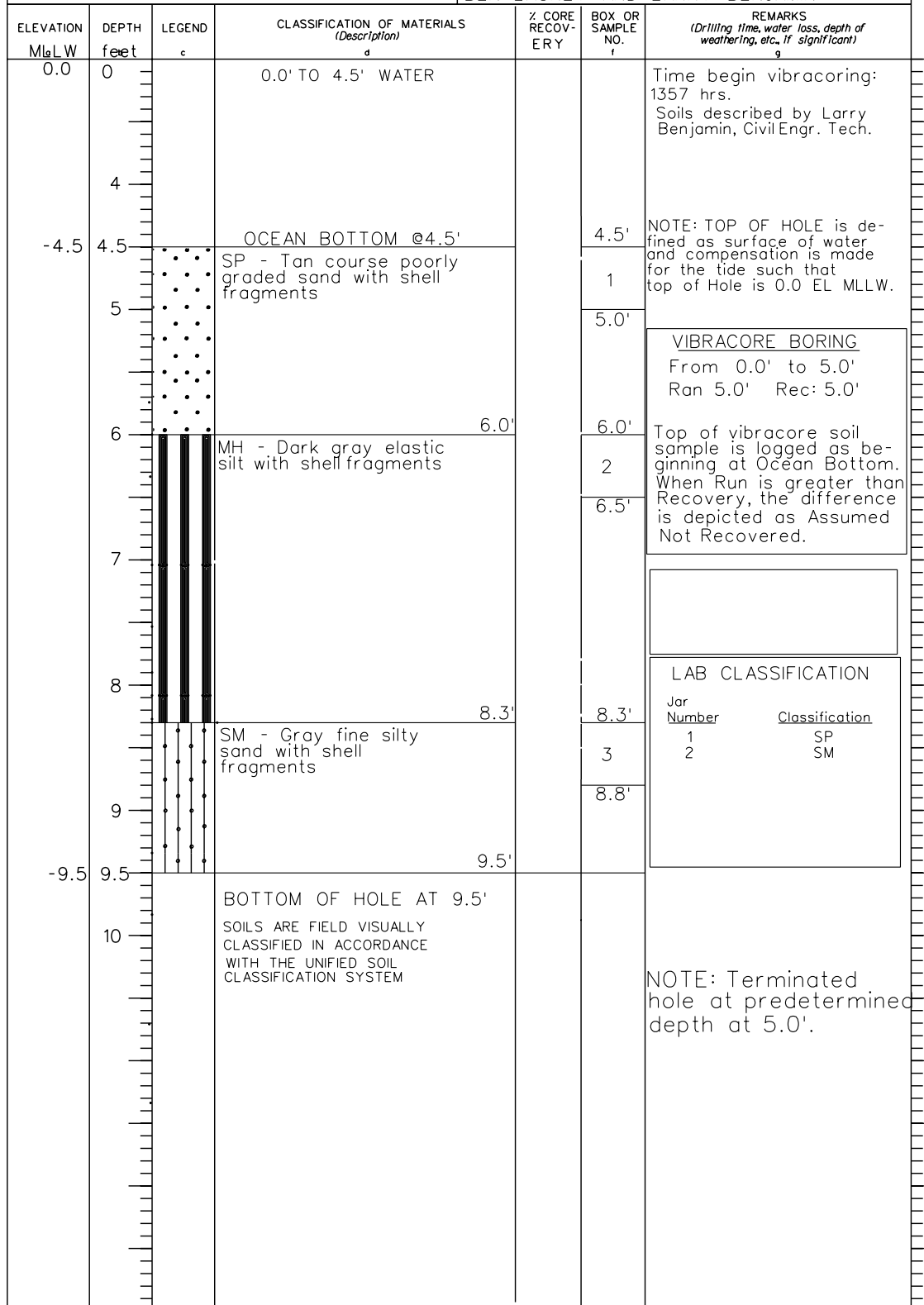
DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2424644 N 238638 NAD83			11. DATUM FOR ELEVATION SHOWN <i>BM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-150A			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 1 : 0 DISTURBED : 1 : 0 UNDISTURBED : 0 : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (3.1' Water)			16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 6.2'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 3.1' WATER			Time begin vibracoring: 1330 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-3.1	3.1		OCEAN BOTTOM @3.1' SP - Tan coarse poorly graded sand		3.1'	
					1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	4				3.6'	
			4.4'			VIBRACORE BORING From 0.0' to 3.1' Ran 3.1' Rec: 1.3'
	5		Assumed not Recovered			Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
-6.2	6.2		6.2'			
	7		BOTTOM OF HOLE AT 6.2' SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						LAB CLASSIFICATION Jar Number Classification 1 SP
						NOTE: Terminated hole at predetermined depth at 3.1'.

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2425207 N 240945 NAD83			11. DATUM FOR ELEVATION SHOWN <i>(NBM or MSL)</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-151			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 3 : DISTURBED : 0 : UNDISTURBED	
5. NAME OF DRILLER LESTER GAUGH CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (2.4' Water)			16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 8.9'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 2.4' WATER			Time begin vibracoring: 1349 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-2.4	2.4		OCEAN BOTTOM @2.4'		2.4'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
			SP-SM - Gray fine poorly graded silty sand, T/shell fragments		1	
	2.9'				2.9'	<u>VIBRACORE BORING</u> From 0.0' to 6.5' Ran 6.5' Rec: 6.5' Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
					2	
	5.5'				5.5'	<u>LAB CLASSIFICATION</u> Jar Number Classification
	7.0'				7.0'	
					3	
	7.5'				7.5'	NOTE: Terminated hole at predetermined depth at 6.5'.
-8.9	8.9		BOTTOM OF HOLE AT 8.9'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2425279 N 240934 NAD83		11. DATUM FOR ELEVATION SHOWN <i>NBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-151A		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 3 : UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (4.5' Water)		16. DATE HOLE : STARTED 07/08/03 : COMPLETED 07/08/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 9.5'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	



DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2424165 N 241969 NAD83				11. DATUM FOR ELEVATION SHOWN <i>NTBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-152				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 3 : UNDISTURBED 0			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (3.9' Water)				16. DATE HOLE : STARTED 07/08/03 : COMPLETED 07/08/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 13.9'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 3.9' WATER			Time begin vibracoring: 1410 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	3					
-3.9	3.9		OCEAN BOTTOM @3.9'		3.9'	Scale changed @8.0'. NOTE: TOP OF HOLE is defined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	4		SP-SM - Gray medium poorly graded sand, T/shell fragments		1	VIBRACORE BORING
	5				4.4'	From 0.0' to 10.0' Ran 10.0' Rec: 5.2'
	5.5				5.5'	Top of vibracore soil sample is logged as beginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	6		SP - Tan coarse poorly graded sand, T/shell fragments		2	
	7				6.0'	
	7.9				7.9'	LAB CLASSIFICATION
	8		SP-SM - Gray fine poorly graded silty sand with shell fragments		3	Jar Number Classification 1 SP 2 SP 3 SP
	9.1				8.4'	
	10		Assumed not Recovered			
	12					
-13.9	13.9		BOTTOM OF HOLE AT 13.9'			NOTE: Terminated hole at predetermined depth at 10.0'.
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2424231 N 241955 NAD83			11. DATUM FOR ELEVATION SHOWN <i>NTBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-152A			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : UNDISTURBED 4 : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (6.2' Water)			16. DATE HOLE : STARTED : COMPLETED 07/08/03 : 07/08/03	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 13.5'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION M _g L _W	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 6.2' WATER			Time begin vibracoring: 1420 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-6.2	6.2		OCEAN BOTTOM @6.2'		6.2'	
	6.2		SP - Tan coarse poorly graded sand with tiny shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	7				6.7'	
	8				8.2'	VIBRACORE BORING From 0.0' to 7.3' Ran 7.3' Rec: 7.3'
	8		8.2'			Top of vibracore soil sample is logged as be- ginning at Ocean Bottom.
	9		SP-SM - Gray medium poorly graded sand, T/shell fragments		2	When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	10				8.7'	
	11				10.8'	
	11		SM - Dark gray fine silty sand with shell fragments		3	
	12				11.3'	
	13				13.0'	NOTE: Terminated hole at predetermined depth at 7.3'.
-13.5	13.5		13.5'		4	
			BOTTOM OF HOLE AT 13.5'		13.5'	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2423797 N 242578 NAD83				11. DATUM FOR ELEVATION SHOWN <i>(BM or MSL)</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-153				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 4 : UNDISTURBED : 0			
5. NAME OF DRILLER LESTER GAUGH CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (2.9' Water)				16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 12.9'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 2.9' WATER			Time begin vibracoring: 1430 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	2					Scale changed @6.0'.
						NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
-2.9	2.9		OCEAN BOTTOM @2.9'		2.9'	
	3		SP-SM - Gray fine poorly graded silty sand, T/shell fragments		1	VIBRACORE BORING
					3.4'	From 0.0' to 10.0' Ran 10.0' Rec: 7.0'
	4					Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	5				5.0'	
					2	
					5.5'	
	6				6.5'	LAB CLASSIFICATION
					3	Jar Number Classification
					7.0'	1 SP
						2 SP
						3 SP
						4 SM
	8				8.3'	
			SM - Dark gray fine silty sand, T/shell fragments		4	
					8.8'	
	10		Assumed not Recovered			
						NOTE: Terminated hole at predetermined depth at 10.0'.
	12					
	12.9					
-12.9	12.9		BOTTOM OF HOLE AT 12.9'			
	14		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2423803 N 242560 NAD83		11. DATUM FOR ELEVATION SHOWN MBM or MSL MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-153A		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 4 : DISTURBED : 0 : UNDISTURBED	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (2.1' Water)		16. DATE HOLE : STARTED : 07/08/03 : COMPLETED : 07/08/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 12.3'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 2.1' WATER			Time begin vibracoring: 1440 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-2.1	2.1		OCEAN BOTTOM @2.1'		2.1'	
	2.1		SP - Tan medium poorly graded sand, T/shell fragments		1	Scale changed @6.0'. NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	3				2.6'	
	4				4.0'	VIBRACORE BORING From 0.0' to 10.2' Ran 10.2' Rec: 7.5'
	5				4.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	6				6.0'	
	6.2'		6.2' course grain sizes with shell fragments		3	LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP 3 SP 4 SM
	8				6.5'	
	8.3'		SM - Gray fine silty sand		8.3'	
	9.6'				4	
	10		Assumed not Recovered		8.8'	
	12					NOTE: Terminated hole at predetermined depth at 10.2'.
-12.3	12.3		12.3' BOTTOM OF HOLE AT 12.3'			
	14		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2403211 N 197330 NAD83				11. DATUM FOR ELEVATION SHOWN <i>TBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-171				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 5 ; UNDISTURBED 0			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (42.8' Water)				16. DATE HOLE : STARTED 08/02/03 ; COMPLETED 08/02/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 58.8'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 42.8' WATER			Time begin vibracoring: 1240 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-42.8	42.8		OCEAN BOTTOM @42.8'		42.8'	NOTE: TOP OF HOLE is de-	
			SP-SM - Gray medium poorly graded silty sand, T/shell fragments		1	fined as surface of water and compensation is made	
	44				43.3'	for the tide such that top of Hole is 0.0 EL MLLW.	
			SM - Dark gray fine silty sand		44.5'	VIBRACORE BORING	
					2	From 0.0' to 16.0'	
	46				45.0'	Ran 16.0' Rec: 11.0'	
						Top of vibracore soil sample is logged as be-	
	48				47.0'	ginning at Ocean Bottom.	
					3	When Run is greater than Recovery, the difference is depicted as Assumed	
					47.5'	Not Recovered.	
	50		ML - Dark gray sandy silt		49.7'	LAB CLASSIFICATION	
					4	Jar	
					50.2'	Number Classification	
						1 SP	
						2 SM	
						3 SM	
						4 SM	
						5 SP-SM	
	52				52.8'		
			SP-SM - Tan fine poorly graded silty sand		5		
					53.3'		
	54		Assumed not Recovered			NOTE: Terminated hole at predetermined depth at 16.0'.	
	56						
	58						
-58.8	58.8		58.8'			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM	
			BOTTOM OF HOLE AT 58.8'				

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2404511 N 195062 NAD83				11. DATUM FOR ELEVATION SHOWN <i>BM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-172				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 6		DISTURBED : 0 UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A		16. DATE HOLE : STARTED : 08/02/03 : COMPLETED : 08/02/03	
7. THICKNESS OF OVERBURDEN N/A (44.4' Water)				17. ELEVATION TOP OF HOLE 0.0' MLLW			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 62.4'				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 44.4' WATER			Time begin vibracoring: 1309 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-44.4	44.4		OCEAN BOTTOM @44.4'		44.4'	Scale changed @60.0'.
		SP	SP - Gray course poorly graded sand with shell fragments 45.4'		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	46	SM	SM - Gray fine silty sand with shell fragments 47.0'		2	
	48	ML	ML - Dark gray sandy silt 51.9'		3	<u>VIBRACORE BORING</u> From 0.0' to 18.0' Ran 18.0' Rec: 15.0' Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	52	MH	MH - Dark gray elastic silt 54.2'		4	<u>LAB CLASSIFICATION</u> Jar Number Classification 1 SP 2 SC 3 SC 4 CH 5 CH 6 SC
	54		2" pocket of course grain sizes 55.0'		5	
	56				55.5'	
	58	SM	SM - Tan fine silty sand 58.3'		6	NOTE: Terminated hole at predetermined depth at 18.0'.
	60		Assumed not Recovered 59.4'		58.8'	
-62.4	62.4		BOTTOM OF HOLE AT 62.4'			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2407178 N 193823 NAD83				11. DATUM FOR ELEVATION SHOWN <i>(TBM or MSL)</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-173				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : <i>(DISTURBED)</i> 5 : <i>(UNDISTURBED)</i> 0			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (44.2' Water)				16. DATE HOLE : <i>(STARTED)</i> 08/02/03 : <i>(COMPLETED)</i> 08/02/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 64.2'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			
ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 44.2' WATER			Time begin vibracoring: 1339 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-44.2	44.2		OCEAN BOTTOM @44.2'		44.2'	Scale changed @58.0'.	
			SP - Tan coarse poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is defined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
			45.4'		44.7'		
			MH - Dark gray elastic silt		2		
			45.9'		45.4'		
					3	VIBRACORE BORING From 0.0' to 20.0' Ran 20.0' Rec: 10.8'	
					4	Top of vibracore soil sample is logged as beginning at Ocean Bottom.	
					5	When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
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DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2409207 N 191693 NAD83			11. DATUM FOR ELEVATION SHOWN <i>MBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-174			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : UNDISTURBED : 4 : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (45.5' Water)			16. DATE HOLE : STARTED : COMPLETED : 08/02/03 : 08/02/03	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 51.5'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVER- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 45.5' WATER			Time begin vibracoring: 1408 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	45					
-45.5	45.5		OCEAN BOTTOM @45.5'		45.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	46		SP - Gray medium poorly graded sand with shell fragments		1	
	47				46.0'	VIBRACORE BORING From 0.0' to 6.0' Ran 6.0' Rec: 5.8'
	48		MH - Dark gray elastic silty sand		47.8'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	49				2	
	50				48.3'	
	51		SM - Greenish gray fine silty sand		49.5'	LAB CLASSIFICATION Jar Number Classification 1 SP 2 CH 3 CH 4 SM
	51.5		Assumed not Recovered		3	
			BOTTOM OF HOLE AT 51.5'		4	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM		50.0'	
					50.5'	
					51.0'	
						NOTE: Terminated hole at predetermined depth at 6.0'.

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2410992 N 189848 NAD83			11. DATUM FOR ELEVATION SHOW <i>(BM or MSL)</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-175			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 5 : DISTURBED : 0 : UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (46.4' Water)			16. DATE HOLE : STARTED : 08/02/03 : COMPLETED : 08/02/03	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 60.4'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MslW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 46.4' WATER			Time begin vibracoring: 1429 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	46				46.4'	
-46.4	46.4		OCEAN BOTTOM @46.4'		1	
	48		SM - Greenish gray fine silty sand with shell fragments		46.9'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0' EL MLLW.
	49.6'				49.6'	
	50		SP-SM - Gray fine poorly graded silty sand, T/shell fragments		2	
	52				50.1'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	54				52.0'	
	56				3	
	58				52.5'	
	60				55.0'	
-60.4	60.4		BOTTOM OF HOLE AT 60.4'		4	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM		55.5'	
					57.5'	
					5	
					58.0'	
			Assumed not Recovered			NOTE: Terminated hole at predetermined depth at 14.0'.

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore		
2. LOCATION (Coordinates or Station) NC COORD E 2412837 N 187952 NAD83			11. DATUM FOR ELEVATION SHOW WTBM or MSL MLLW		
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL		
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-176			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : UNDISTURBED 6 0		
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A		
7. THICKNESS OF OVERBURDEN N/A (47.5' Water)			16. DATE HOLE : STARTED : COMPLETED 08/02/03 08/02/03		
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW		
9. TOTAL DEPTH OF HOLE 64.5'			18. TOTAL CORE RECOVERY FOR BORING N/A		
19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN					

ELEVATION M _a LW	DEPTH feet	LEGEND <i>c</i>	CLASSIFICATION OF MATERIALS (Description) <i>d</i>	% CORE RECOVERY	BOX OR SAMPLE NO. <i>f</i>	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) <i>g</i>
0.0	0		0.0' TO 47.5' WATER			Time begin vibracoring: 1455 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-47.5	47.5		OCEAN BOTTOM @47.5'		47.5'	Scale changed @61.0'.
			SM - Gray medium poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is defined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
					48.0'	
					48.5'	
	49		SP-SM - Greenish gray fine poorly graded silty sand, T/shell fragments		2	
					49.0'	
						VIBRACORE BORING From 0.0' to 17.0' Run 17.0' Rec: 14.5'
	51				51.5'	Top of vibracore soil sample is logged as beginning at Ocean Bottom.
					3	When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
					52.0'	
	53					
					54.0'	
					4	
	55				54.5'	
						LAB CLASSIFICATION
						Jar Number Classification
						1 SP-SM
						2 SM
						3 SM
						4 SM
	57				57.0'	5 SM
					5	6 SM
					57.5'	
	59					
					61.0'	
	61				6	
					61.5'	
			Assumed not Recovered			
						NOTE: Terminated hole at predetermine depth at 17.0'.
-64.5	64.5		BOTTOM OF HOLE AT 64.5'			
65			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2414715 N 189749 NAD83			11. DATUM FOR ELEVATION SHOWN <i>BM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-177			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 5 : UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (46.5' Water)			16. DATE HOLE : STARTED : 08/02/03 : COMPLETED : 08/02/03	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 56.5'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MlgLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 46.5' WATER			Time begin vibracoring: 1523 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	46					Scale changed @50.0'.
-46.5	46.5		OCEAN BOTTOM @46.5'		46.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	47		SM - Dark gray fine silty sand with shell fragments		1	
	48				47.0'	
	49				48.0'	VIBRACORE BORING From 0.0' to 10.0' Ran 10.0' Rec: 8.5'
	50				2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	51				48.5'	
	52				49.7'	
	53				3	
	54				50.2'	LAB CLASSIFICATION
	55		SP-SM - Gray fine poorly graded silty sand		4	Jar Number Classification
	56				52.0'	1 SM
	57				52.5'	2 SM
	58				54.0'	3 SM
	59				5	4 SM
	60				54.5'	5 SM
	61					NOTE: Terminated hole at predetermined depth at 10.0'.
	62					
	63					
	64					
	65					
	66					
	67					
	68					
	69					
	70					
	71					
	72					
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DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2413316 N 191142 NAD83				11. DATUM FOR ELEVATION SHOWN <i>TBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-178				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 8 : DISTURBED : 0 : UNDISTURBED : 0			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (46.3' Water)				16. DATE HOLE : STARTED : 08/02/03 : COMPLETED : 08/02/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 66.3'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MgLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 46.3' WATER			Time begin vibracoring: 1545 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-46.3	46.3		OCEAN BOTTOM @46.3'		46.3'	Scale changed @56.0'.
			SP-SM - Gray fine poorly graded silty sand, T/shell fragments		1 46.8'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	48				48.5'	VIBRACORE BORING
					2 49.0'	From 0.0' to 20.0' Ran 20.0' Rec: 17.0'
	50				50.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom.
					3 51.0'	When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	52				52.0'	
			SP - Tan coarse poorly graded sand, T/shell fragments		4 52.5'	
	54				54.5'	LAB CLASSIFICATION
					5	Jar Number Classification
					55.0'	1 SP-SM
						2 SP-SM
						3 SP-SM
						4 SP-SM
	56				57.0'	5 SP
					6	6 SP
					57.5'	7 SP
	60				60.0'	8 SP
					60.5'	
					62.5'	
					63.0'	NOTE: Terminated hole at predetermined depth at 20.0'.
-66.3	66.3		BOTTOM OF HOLE AT 66.3'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2411791 N 194146 NAD83				11. DATUM FOR ELEVATION SHOWN <i>BM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and File number) : TI-03-V-179				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN : DISTURBED : 5 : UNDISTURBED : 0			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (46.0' Water)				16. DATE HOLE : STARTED : 08/02/03 : COMPLETED : 08/02/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 56.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 46.0' WATER			Time begin vibracoring: 1613 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-46.0	46.0		OCEAN BOTTOM @46.0' SP-SM - Gray fine poorly graded silty sand, T/shell fragments		46.0'	Scale changed @51.0'.
					1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	47				46.5'	
	48				48.0'	VIBRACORE BORING From 0.0' to 10.0' Ran 10.0' Rec: 9.1'
	49				48.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	49.4				49.4'	
	50		SP - Tan coarse poorly graded sand, T/shell fragments		3	
	51.5				49.9'	LAB CLASSIFICATION
	52				51.5'	Jar Number Classification 1 SM 2 SM 3 SP-SM 4 SM 5 SM
	53.0				52.0'	
	54				53.0'	
	55.1				53.5'	
	56.0		Assumed not Recovered			NOTE: Terminated hole at predetermined depth at 10.0'.
-56.0	56.0		BOTTOM OF HOLE AT 56.0'			
	58		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2409234 N 195736 NAD83		11. DATUM FOR ELEVATION SHOWN <i>TBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-180		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 4 : UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (44.2' Water)		16. DATE HOLE : STARTED 08/02/03 : COMPLETED 08/02/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 53.2'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 44.2' WATER			Time begin vibracoring: 1635 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-44.2	44.2		OCEAN BOTTOM @44.2'		44.2'	Scale changed @49.0'.
	44.7		SM - Gray fine silty sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	45				44.7'	
	46				46.0'	VIBRACORE BORING From 0.0' to 9.0' Ran 9.0' Rec: 7.0'
	47				2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	47.2		SP - Tan fine medium poorly graded sand		46.5'	
	48				47.2'	
	49				3	
	51				47.7'	
	51.2		Assumed not Recovered		49.0'	
	53				4	
-53.2	53.2		BOTTOM OF HOLE AT 53.2'		49.5'	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 9.0'.

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore		
2. LOCATION (Coordinates or Station) NC COORD E 2407127 N 197488 NAD83			11. DATUM FOR ELEVATION SHOWN <i>(TBM or MSL)</i> MLLW		
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL		
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-181			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : UNDISTURBED 4 : 0		
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A		
7. THICKNESS OF OVERBURDEN N/A (44.0' Water)			16. DATE HOLE : STARTED : COMPLETED 08/02/03 : 08/02/03		
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW		
9. TOTAL DEPTH OF HOLE 53.0'			18. TOTAL CORE RECOVERY FOR BORING N/A %		
			19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN		

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 44.0' WATER			Time begin vibracoring: 1704 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-44.0	44.0		OCEAN BOTTOM @44.0'		44.0'	
			SM - Gray fine silty sand with shell fragments		1	Scale changed @49.0'.
	44.5				44.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	45					
	46				46.0	VIBRACORE BORING From 0.0' to 9.0' Ran 9.0' Rec: 7.7'
	46.5				2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	47					
	48				48.0'	
			SP - Tan fine medium poorly graded sand		3	LAB CLASSIFICATION
	48.5					Jar Number Classification 1 SP-SM 2 SM 3 SM 4 SP-SM
	49					
	50				50.0	
	51				4	
	51.7		Assumed not Recovered		50.5'	
	53.0					NOTE: Terminated hole at predetermined depth at 9.0'.
			BOTTOM OF HOLE AT 53.0'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2409287 N 199517 NAD83				11. DATUM FOR ELEVATION SHOWN <i>B.M.</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-182				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 4 : DISTURBED : 0 : UNDISTURBED : 0			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (44.7' Water)				16. DATE HOLE : STARTED : 08/02/03 : COMPLETED : 08/02/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 52.7'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 44.7' WATER			Time begin vibracoring: 1731 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	44					Scale changed @50.0'.
-44.7	44.7		OCEAN BOTTOM @44.7'		44.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	45		SP - Gray course poorly graded sand with shell fragments		1	
	45.2				45.2'	VIBRACORE BORING From 0.0' to 8.0' Ran 8.0' Rec: 7.6'
	46				46.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom.
	46.5				46.5'	When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	47		47.0'		47.0'	
	47		SP-SM - Tan fine poorly graded silty sand		3	
	47.5				47.5'	
	48					LAB CLASSIFICATION
	49				49.0'	Jar Number Classification 1 SP 2 SP 3 SP-SM 4 SP-SM
	49.5				49.5'	
	50					
	52					NOTE: Terminated hole at predetermined depth at 8.0'.
-52.7	52.7		52.3' Assumed not Recovered 52.7'			
	54		BOTTOM OF HOLE AT 52.7' SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2411241 N 197600 NAD83		11. DATUM FOR ELEVATION SHOWN <i>NBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-183		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 3 : UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (45.7' Water)		16. DATE HOLE : STARTED 08/02/03 : COMPLETED 08/02/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 50.7'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 45.7' WATER			Time begin vibracoring: 1751 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	45					
-45.7	45.7		OCEAN BOTTOM @45.7'		45.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	46	•••••	SP-SM - Greenish gray fine poorly graded silty sand		1	
	47	•••••			46.2'	VIBRACORE BORING From 0.0' to 5.0' Ran 5.0' Rec: 4.6'
	48	•••••			48.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	49	•••••			2	
	50	•••••			48.5'	
	50.3	•••••			49.5'	LAB CLASSIFICATION Jar Number Classification 1 SP-SM 2 SM 3 SM
	50.7	•••••	Assumed not Recovered		3	
	51				50.0'	
-50.7	50.7		BOTTOM OF HOLE AT 50.7'			NOTE: Terminated hole at predetermined depth at 5.0'.
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2415302 N 193753 NAD83		11. DATUM FOR ELEVATION SHOWN <i>NBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-185		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 8 : UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (46.5' Water)		16. DATE HOLE : STARTED 08/02/03 : COMPLETED 08/02/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 66.5'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 46.5' WATER			Time begin vibracoring: 1843 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	46					
-46.5	46.5		OCEAN BOTTOM @46.5'		46.5'	Scale changed @58.0'.
			SP - Tan coarse poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	48				47.0'	
					48.5'	
			SM - Gray fine silty sand with shell fragments		2	VIBRACORE BORING From 0.0' to 20.0' Ran 20.0' Rec: 18.3'
	50				49.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	52				51.0'	
					3	
					51.5'	
					53.0'	
			MH - Dark gray elastic silt		4	
	54				53.5'	
						LAB CLASSIFICATION
						Jar Number Classification
					55.0'	1 SP
					5	2 SP-SM
						3 SM
					55.5'	4 SM
	56					5 CH
						6 CH
						7 SM
						8 SM
	58				58.0'	
			SM - Gray fine silty sand		6	
	61				58.5'	NOTE: Terminated hole at predetermined depth at 20.0'.
	63				61.0'	
					7	
					61.5'	
					64.3'	
					8	
			Assumed not Recovered		64.8'	
-66.5	66.5		BOTTOM OF HOLE AT 66.5'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2417347 N 192119 NAD83		11. DATUM FOR ELEVATION SHOWN <i>BN</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-186		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 8 : UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (47.7' Water)		16. DATE HOLE : STARTED 08/02/03 : COMPLETED 08/02/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 67.7'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 47.7' WATER			Time begin vibracoring: 1906 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	47					
-47.7	47.7		OCEAN BOTTOM @47.7'		47.7'	Scale changed @57.0'.
			SP - Gray coarse poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	49				48.2'	
					49.5'	
			SP-SM - Gray fine poorly graded silty sand, T/shell fragments		2	VIBRACORE BORING
					50.0'	From 0.0' to 20.0'
					51.0'	Ran 20.0' Rec: 17.8'
	51		SM - Gray fine silty sand with shell fragments		3	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom.
					51.5'	When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	53					
					53.9'	
			MH - Dark gray elastic silt, T/shell fragments		4	
	55				54.4'	
					56.0'	
					5	
					56.5'	
	57		SM - Gray fine silty sand, T/shell fragments		57.0'	
					6	
					57.5'	
					60.0'	
					7	
					60.5'	
	62					
					63.0'	
	64		SP-SM - Poorly graded silty sand		8	
					63.5'	NOTE: Terminated hole at predetermined depth at 20.0'.
	66		Assumed not Recovered			
-67.7	67.7		BOTTOM OF HOLE AT 67.7'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2407902 N 204964 NAD83		11. DATUM FOR ELEVATION SHOWN <i>TBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-187		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 6 : UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (42.5' Water)		16. DATE HOLE : STARTED 08/03/03 : COMPLETED 08/03/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 57.5'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 42.5' WATER			Time begin vibracoring: 0805 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-42.5	42.5		OCEAN BOTTOM @42.5'		42.5'	
			SP-SM - Gray fine poorly graded silty sand, T/shell fragments		1 43.0'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	44				44.5'	
					2 45.0'	VIBRACORE BORING From 0.0' to 15.0' Ran 15.0' Rec: 13'
	46				46.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom.
			SP - Tan medium poorly graded sand with traces of tiny shell fragments		3 47.0'	When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	48				49.0'	
					4	
	50				49.5'	LAB CLASSIFICATION
						Jar Number Classification
						1 SP
						2 SP-SM
						3 SP-SM
						4 SP-SM
	52				52.0'	5 SP-SM
					5	6 SM
					52.5'	
	54				54.0'	
					6	
					54.5'	NOTE: Terminated hole at predetermined depth at 15.0'.
	56		Assumed not Recovered			
	58		BOTTOM OF HOLE AT 57.5'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2409013 N 202653 NAD83				11. DATUM FOR ELEVATION SHOWN <i>FBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-188				10. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 4		:DISTURBED :UNDISTURBED : 4 : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE :STARTED :COMPLETED :08/03/03 :08/03/03			
7. THICKNESS OF OVERBURDEN N/A (44.2' Water)				17. ELEVATION TOP OF HOLE 0.0' MLLW			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 54.2'				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			

ELEVATION MgLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 44.2' WATER			Time begin vibracoring: 0831 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-44.2	44.2		OCEAN BOTTOM @44.2'		44.2'	
	44.2		SM - Gray fine silty sand with shell fragments		1 44.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	46					
	48		SP-SM - Gray fine poorly graded silty sand, T/shell fragments		2 48.3'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	50				3 50.0'	
	52				4 52.0'	
	54				52.5'	
-54.2	54.2		BOTTOM OF HOLE AT 54.2'			
	56		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						NOTE: Terminated hole at predetermined depth at 10.0'.

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		15. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2411275 N 201372 NAD83		11. DATUM FOR ELEVATION SHOWN <i>NBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-189		15. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : UNDISTURBED 6 : 6 : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (45.5' Water)		16. DATE HOLE : STARTED : COMPLETED 08/03/03 : 08/03/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 60.5'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MgLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 45.5' WATER			Time begin vibracoring: 0853 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	45					
-45.5	45.5		OCEAN BOTTOM @45.5'		45.5'	
			SP - Gray coarse poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	47				46.0'	
					47.5'	
			SM - Gray fine silty sand with shell fragments		2	VIBRACORE BORING From 0.0' to 15.0' Ran 15.0' Rec: 14.0'
	49				48.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	51				51.0'	
					3	
					51.5'	
	53					
					54.8'	
	55		SP-SM - Tan fine poorly graded silty sand, f/shell fragments		4	
					55.3'	
	57				57.0'	
					5	
					57.5'	NOTE: Terminated hole at predetermined depth at 15.0'.
	59				59.0'	
					6	
			Assumed not Recovered		59.5'	
-60.5	60.5		60.5'			
	61		BOTTOM OF HOLE AT 60.5'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			15. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2413215 N 199408 NAD83			11. DATUM FOR ELEVATION SHOWN <i>TBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-190			15. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 7 : UNDISTURBED 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (47.5' Water)			16. DATE HOLE : STARTED : 08/03/03 : COMPLETED : 08/03/03	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 62.5'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN				

ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 47.5' WATER			Time begin vibracoring: 0913 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-47.5	47		OCEAN BOTTOM @47.5'		47.5'	
	47.5	•••••	SP - Gray course poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	49	•••••	SM - Gray fine silty sand with shell fragments		2	
	51	•••••			3	VIBRACORE BORING From 0.0' to 15.0' Ran 15.0' Rec: 14.0'
	53	•••••			4	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	55	•••••	SP-SM - Tan fine poorly graded silty sand, f/shell fragments		5	
	57	•••••			6	
	59	•••••			7	
	61	•••••			8	
	62.5		Assumed not Recovered		9	
-62.5	63		BOTTOM OF HOLE AT 62.5'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		20. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2415210 N 197315 NAD83		11. DATUM FOR ELEVATION SHOWN <i>(BM or MSL)</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-191		20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 8 : UNDISTURBED : 0	
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR		19.5. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		20. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (47.2' Water)		16. DATE HOLE : STARTED : 08/03/03 : COMPLETED : 08/03/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 67.2'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. i	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 47.2' WATER			Time begin vibracoring: 0935 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-47.2	47.2		OCEAN BOTTOM @47.2'		47.2'	
			SP - Gray coarse poorly graded sand with shell fragments 48.0'		1	Scale changed @57.0'.
			SM - Gray fine silty sand, T/shell fragments		2	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	49				48.5'	
	51				51.7'	
			MH - Dark gray elastic silt 51.7'		3	VIBRACORE BORING From 0.0' to 20.0' Ran 20.0' Rec: 19.5'
	53				52.2'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
					54.0'	
					4	
	55				54.5'	LAB CLASSIFICATION
					56.2'	Jar Number Classification
					5	1 SP
						2 SM
						3 SC
						4 CH
						5 SC
						6 SP-SM
						7 SM
						8 SM
	57		SM - Dark gray fine silty sand with shell fragments 56.2'		56.2'	
					5	
					56.7'	
					59.0'	
					6	
					59.5'	
	62				62.0'	
					62.5'	
					66.2'	NOTE: Terminated hole at predetermined depth at 20.0'.
					8	
-67.2	67.2		Assumed not Recovered 67.2'		66.7'	
			BOTTOM OF HOLE AT 67.2'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				20. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2417022 N 195388 NAD83				11. DATUM FOR ELEVATION SHOWN <i>BW</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-192				20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2 : DISTURBED : 0 : UNDISTURBED			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				3.0. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				20. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (47.0' Water)				16. DATE HOLE : STARTED : 08/03/03 : COMPLETED : 08/03/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 51.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			
ELEVATION MslW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 47.0' WATER			Time begin vibracoring: 0955 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-47.0	47.0		OCEAN BOTTOM @47.0' SP - Gray coarse poorly graded sand with shell fragments		47.0'		
					1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	48				47.5'		
	49				49.0'	VIBRACORE BORING From 0.0' to 4.0' Ran 4.0' Rec: 3.0'	
	49		CL - Dark sandy lean clay		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	50		SM - Gray fine silty sand with shell fragments		49.5'		
	50		Assumed not Recovered				
-51.0	51.0		BOTTOM OF HOLE AT 51.0'			LAB CLASSIFICATION Jar Number Classification 1 SP 2 SC	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 4.0'.	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				20. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2409639 N 206546 NAD83				11. DATUM FOR ELEVATION SHOWN <i>FBM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-194				20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 3 : 0			
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				6.5. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				20. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (42.7' Water)				16. DATE HOLE : STARTED : 08/15/03 : COMPLETED : 08/15/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 49.2'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 42.7' WATER			Time begin vibracoring: 1109 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-42.7	42.7		OCEAN BOTTOM @42.7' SP-SM - Tan fine poorly graded silty sand with shell fragments		42.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	43				1	
	44				43.2'	VIBRACORE BORING From 0.0' to 6.5' Ran 6.5' Rec: 6.5'
	45				45.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	46				2	
	47				45.5'	
	48					LAB CLASSIFICATION Jar Number Classification
	49				47.5'	
	49.2				3	
	50				48.0'	NOTE: Terminated hole at predetermined depth at 6.5'
-49.2	49.2		BOTTOM OF HOLE AT 49.2'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				20. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2410409 N 204021 NAD83				11. DATUM FOR ELEVATION SHOW <i>MB</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-195				20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2		DISTURBED : 0 UNDISTURBED : 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				5.6. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE : STARTED : 08/15/03		COMPLETED : 08/15/03	
7. THICKNESS OF OVERBURDEN N/A (43.7' Water)				17. ELEVATION TOP OF HOLE 0.0' MLLW			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 49.3'				19. SIGNATURE OF INSPECTOR STACEY SMITH			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 43.7' WATER			Time begin vibracoring: 1130 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	43					
-43.7	43.7		OCEAN BOTTOM @43.7'		43.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	44	•••••	SP - Tan medium poorly graded sand, T/shell fragments		1	
	45	•••••			44.2'	VIBRACORE BORING From 0.0' to 5.6' Ran 5.6' Rec: 3.8'
	46	•••••			46.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	47	•••••			2	
	48				46.5'	
	49					
-49.3	49.3		Assumed not Recovered			
	50					
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						NOTE: Terminated hole at predetermined depth at 5.6'

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			20. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2412135 N 202063 NAD83			11. DATUM FOR ELEVATION SHOWN <i>FBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-196			20. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN : 4 : UNDISTURBED : 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR			8.6. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			20. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (44.8' Water)			16. DATE HOLE : STARTED : 08/15/03 : COMPLETED : 08/15/03	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 53.4'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR STACEY SMITH	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 44.8' WATER			Time begin vibracoring: 1151 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	44					Scale changed @50.0'.
-44.8	44.8		OCEAN BOTTOM @44.8'		44.8'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0' EL MLLW.
	45		SP - Tan coarse poorly graded sand		1	
	46				45.3'	VIBRACORE BORING From 0.0' to 8.6' Ran 8.6' Rec: 8.0'
	47				46.4'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	48		SM - Grayish tan fine silty sand		2	
	49				46.9'	
	50				48.5'	LAB CLASSIFICATION Jar Number Classification 1 SP 2 SC 3 SC 4 SP-SM
	51				49.0'	
	52				50.5'	
	53				51.0'	NOTE: Terminated hole at predetermined depth at 8.6'
	54					
-53.4	53.4		Assumed not Recovered			
	54		BOTTOM OF HOLE AT 53.4'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			20. SIZE AND TYPE OF BIT 4" Dia. Vibracore		
2. LOCATION (Coordinates or Station) NC COORD E 2414068 N 200168 NAD83			11. DATUM FOR ELEVATION SHOWN <i>TBM</i> or <i>MSL</i> MLLW		
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL		
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-197			20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : UNDISTURBED 7 0		
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR			14.3. TOTAL NUMBER CORE BOXES N/A		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			20. ELEVATION GROUND WATER N/A		
7. THICKNESS OF OVERBURDEN N/A (45.5' Water)			16. DATE HOLE : STARTED : COMPLETED 08/15/03 08/15/03		
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW		
9. TOTAL DEPTH OF HOLE 59.8'			18. TOTAL CORE RECOVERY FOR BORING N/A %		
			19. SIGNATURE OF INSPECTOR STACEY SMITH		

ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 45.5' WATER			Time begin vibracoring: 1212 hrs. Soils described by Larry Benjamin, CivilEngr. Tech.
-45.5	45.5		OCEAN BOTTOM @45.5'		45.5'	
			SP - Tan coarse poorly graded sand		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	47		47.0'		47.0'	
			SM - Gray fine silty sand		2	
	49				47.5'	VIBRACORE BORING From 0.0' to 14.3' Ran 14.3' Rec: 12.0'
	51				49.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
					3	
					50.0'	
	52.0'					
			MH - Dark gray elastic silt		52.0'	
	52.9'			52.5'	4	
			SM - Gray fine silty sand	52.9'		
	53				5	LAB CLASSIFICATION
					53.4'	Jar Number Classification
						1 SP
						2 SP-SM
						3 SM
						4 CH
						5 SC
						6 SC
						7 CH
	55				55.0'	
					6	
					55.5'	
	56.7'				56.7'	
			MH - Dark gray elastic silt		7	
	57				57.2'	
			Assumed not Recovered			NOTE: Terminated hole at predetermined depth at 14.3'
	59					
-59.8	59.8		59.8'			
			BOTTOM OF HOLE AT 59.8'			
	61		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				20. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2418885 N 193430 NAD83				11. DATUM FOR ELEVATION SHOWN <i>(BM or MSL)</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-198				20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 5 : 0			
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				10.5. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				20. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (46.5' Water)				16. DATE HOLE : STARTED : 08/15/03 : COMPLETED : 08/15/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 57.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MgLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 46.5' WATER			Time begin vibracoring: 1311 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-46.5	46.5		OCEAN BOTTOM @46.5'		46.5'	Scale changed @49.0'. NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	47		SP - Tan coarse poorly graded sand with shell fragments		1		
	48				47.0'	VIBRACORE BORING From 0.0' to 10.5' Ran 10.5' Rec: 8.0'	
	49				48.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	50				2		
	51		SM - Gray fine silty sand		49.0'		
	52				49.5'		
	53		SP - Whitish gray coarse poorly graded sand		3		
	54				50.0'		
	55		SP-SM - Light gray fine poorly graded silty sand		50.5'		
	56				4	LAB CLASSIFICATION	
	57				51.0'	Jar Number Classification	
	58				52.5'	1 SP	
	59				5	2 SP	
	60				53.0'	3 SM	
	61					4 SP-SM	
	62					5 SP-SM	
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DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			20. SIZE AND TYPE OF BIT 4" Dia. Vibrocore		
2. LOCATION (Coordinates or Station) NC COORD E 2420955 N 195485 NAD83			11. DATUM FOR ELEVATION SHOWN <i>FBM</i> or <i>MSL</i> MLLW		
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL		
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-199			20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : UNDISTURBED 3 0		
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR			7.4. TOTAL NUMBER CORE BOXES N/A		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			20. ELEVATION GROUND WATER N/A		
7. THICKNESS OF OVERBURDEN N/A (46.6' Water)			16. DATE HOLE : STARTED : COMPLETED 08/15/03 08/15/03		
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW		
9. TOTAL DEPTH OF HOLE 54.0'			18. TOTAL CORE RECOVERY FOR BORING N/A		
			19. SIGNATURE OF INSPECTOR STACEY SMITH		

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVER ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 46.6' WATER			Time begin vibracoring: 1451 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-46.6	46.6		OCEAN BOTTOM @46.6'		46.6'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	47		SP - Light gray coarse poorly graded sand with shell fragments		1	
	48				47.1'	<u>VIBRACORE BORING</u> From 0.0' to 7.4' Ran 7.4' Rec: 5.0'
	49				48.8'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	50		SM - Gray fine silty sand, T/shell fragments		2	
	51				49.3'	
	52					LAB CLASSIFICATION Jar Number Classification 1 SP 2 SM 3 SM
	53				51.1'	
	54				3	
	54.0		Assumed not Recovered		51.6'	
	55					NOTE: Terminated hole at predetermined depth at 7.4'
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DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			20. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2419104 N 197378 NAD83			11. DATUM FOR ELEVATION SHOWN <i>BM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-200			20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 4 : UNDISTURBED : 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR			8.5. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			20. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (46.3' Water)			16. DATE HOLE : STARTED : 08/15/03 : COMPLETED : 08/15/03	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 54.8'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR STACEY SMITH	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 46.3' WATER			Time begin vibracoring: 1517 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-46.3	46.3		OCEAN BOTTOM @46.3'		46.3'	Scale changed @53.0'.
	46.3		SP - Light gray coarse poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0' EL MLLW.
	47				46.8'	
	47.6				47.6'	VIBRACORE BORING From 0.0' to 8.5' Ran 8.5' Rec: 6.7'
	48		MH - Dark gray elastic silt		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	49				48.1'	
	50				49.5'	
	50.5		50.5' with shell fragments		3	
	51				50.0'	LAB CLASSIFICATION Jar Number Classification 1 SP 2 CH 3 CH 4 SM
	51.3		SP-SM - Tan fine poorly graded silty sand		51.3'	
	52				4	
	53				51.8'	
	53.0		Assumed not Recovered			NOTE: Terminated hole at predetermined depth at 8.5'
	54.8					
-54.8	54.8		BOTTOM OF HOLE AT 54.8'			
	55		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			


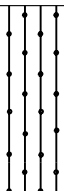

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				20. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2417406 N 199345 NAD83				11. DATUM FOR ELEVATION SHOWN <i>B.M.</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-201				20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2 : 0			
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				3.7. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				20. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (46.1' Water)				16. DATE HOLE : STARTED : 08/15/03 : COMPLETED : 08/15/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 49.8'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
19. SIGNATURE OF INSPECTOR STACEY SMITH							
ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 46.1' WATER			Time begin vibracoring: 1532 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-46.1	46.1		OCEAN BOTTOM @46.1'		46.1'		
			SM - Gray fine silty sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	47				46.6'		
	48				48.1'	VIBRACORE BORING From 0.0' to 3.7' Ran 3.7' Rec: 2.5'	
					2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	49		Assumed not Recovered		48.6'		
-49.8	49.8		49.8'				
	50		BOTTOM OF HOLE AT 49.8'			LAB CLASSIFICATION	
						Jar Number Classification	
						1 SM	
						2 SM	
	51		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				
						NOTE: Terminated hole at predetermined depth at 3.7'	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				20. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2416026 N 201998 NAD83				11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-202				20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 4		: DISTURBED : 0 : UNDISTURBED : 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				9.3. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				20. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (46.3' Water)				16. DATE HOLE : STARTED : 08/15/03 : COMPLETED : 08/15/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 55.6'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 46.3' WATER			Time begin vibracoring: 1605 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-46.3	46.3		OCEAN BOTTOM @46.3'		46.3'	Scale changed @50.0'. NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	46.3		SP - Light gray coarse silty sand with shell fragments		1		
	47				46.8'		
	48				48.0'		
	48		SM - Gray fine silty sand with shell fragments		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	49				48.5'		
	50				50.0'		
	50				3		
	50.5				50.5'		
	52				52.0'		
	52				4		
	52.5				52.5'		
	54						
	54		Assumed not Recovered				
	55.6						
-55.6	55.6		BOTTOM OF HOLE AT 55.6'			NOTE: Terminated hole at predetermined depth at 9.3'	
	56						
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		20. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2414052 N 203893 NAD83		11. DATUM FOR ELEVATION SHOWN <i>BM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-203		20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2 :UNDISTURBED : 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR		4.0. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		20. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (43.4' Water)		16. DATE HOLE :STARTED :08/15/03 :COMPLETED :08/15/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 47.4'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR STACEY SMITH	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. i	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 43.4' WATER			Time begin vibracoring: 1625 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-43.4	43.4	•••••	OCEAN BOTTOM @43.4' SP - Light gray coarse poorly graded sandy, 1/shell fragments		43.4'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	44	•••••			43.9'	VIBRACORE BORING From 0.0' to 4.0' Ran 4.0' Rec: 3.2'
	45	•••••			45.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	46	•••••			46.0'	
	47		Assumed not Recovered			
-47.4	47.4		47.4' BOTTOM OF HOLE AT 47.4'			LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP
	48		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 4.0'

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			20. SIZE AND TYPE OF BIT 4" Dia. Vibracore		
2. LOCATION (Coordinates or Station) NC COORD E 2412016 N 205448 NAD83			11. DATUM FOR ELEVATION SHOWN <i>TBM</i> or <i>MSL</i> MLLW		
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL		
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-204			20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 4 : UNDISTURBED 0		
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR			15.0. TOTAL NUMBER CORE BOXES N/A		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			20. ELEVATION GROUND WATER N/A		
7. THICKNESS OF OVERBURDEN N/A (43.6' Water)			16. DATE HOLE : STARTED : 08/15/03 : COMPLETED : 08/15/03		
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW		
9. TOTAL DEPTH OF HOLE 58.6'			18. TOTAL CORE RECOVERY FOR BORING N/A		
			19. SIGNATURE OF INSPECTOR STACEY SMITH		

ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVER ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 43.6' WATER			Time begin vibracoring: 1643 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-43.6	43.6		SP - Tan coarse poorly graded sand		43.6'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	45		SM - Gray fine silty sand		45.0'	
	47		MH - Dark gray elastic silt		47.6'	
	49				50.5'	
	51				51.0'	
	53		Assumed not Recovered			
	55					
	57					
-58.6	58.6		58.6'			
	59		BOTTOM OF HOLE AT 58.6'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		20. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2410957 N 207734 NAD83		11. DATUM FOR ELEVATION SHOWN <i>TBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-205		20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 5 : 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR		18.6. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		20. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (43.2' Water)		16. DATE HOLE : STARTED : 08/15/03 : COMPLETED : 08/15/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 61.8'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR STACEY SMITH	

ELEVATION Mg L W	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 43.2' WATER			Time begin vibracoring: 1715 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-43.2	43.2		OCEAN BOTTOM @43.2'		43.2'	Scale changed @55.0'.
			SP - Gray coarse poorly graded sand, T/shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	45				43.7'	
					45.2'	
			MH - Dark gray elastic silt		2	VIBRACORE BORING
					45.7'	From 0.0' to 18.6' Ran 18.6' Rec: 12.0'
	47				47.2'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom.
			SM - Dark gray fine silty sand with shell fragments		3	When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	49				47.7'	
					50.0'	
					4	
	51				50.5'	LAB CLASSIFICATION
						Jar Number Classification
						1 SP
						2 CH
						3 SC
						4 SC
						5 SC
	53				53.0'	
					5	
					53.5'	
	55					
			Assumed not Recovered			
	60					NOTE: Terminated hole at predetermined depth at 18.6'
-61.8	61.8		BOTTOM OF HOLE AT 61.8'			
	65		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		20. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2412238 N 208881 NAD83		11. DATUM FOR ELEVATION SHOWN <i>(BM or MSL)</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-206		20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 1 : UNDISTURBED 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR		3.0. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		20. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (44.2' Water)		16. DATE HOLE : STARTED 08/15/03 : COMPLETED 08/15/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 47.2'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR STACEY SMITH	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 44.2' WATER			Time begin vibracoring: 1736 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-44.2	44.2		OCEAN BOTTOM @44.2' SP-SM - Grayish tan fine poorly graded silty sand with shell fragments		44.2'	
	45				1 44.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
			45.7'			VIBRACORE BORING From 0.0' to 3.0' Ran 3.0' Rec: 1.5'
	46		Assumed not Recovered			Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
-47.2	47.2		47.2'			
	48		BOTTOM OF HOLE AT 47.2'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						LAB CLASSIFICATION Jar Number Classification 1 SM
						NOTE: Terminated hole at predetermined depth at 3.0'

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		20. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2413829 N 207127 NAD83		11. DATUM FOR ELEVATION SHOWN <i>TBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-207		20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 2 : UNDISTURBED 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR		3.4. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		20. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (46.2' Water)		16. DATE HOLE : STARTED 08/15/03 : COMPLETED 08/15/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 49.6'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR STACEY SMITH	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 46.2' WATER			Time begin vibracoring: 1758 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-46.2	46.2		OCEAN BOTTOM @46.2'		46.2'	
	46.2		SP-SM - Gray fine poorly graded silty sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	47				46.7'	
	48				48.0'	VIBRACORE BORING From 0.0' to 3.4' Ran 3.4' Rec: 3.1'
	49				2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	49.3'				48.5'	
	49.6'		Assumed not Recovered			
-49.6	49.6		BOTTOM OF HOLE AT 49.6'			
	50		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			LAB CLASSIFICATION Jar Number Classification 1 SP-SM 2 SP-SM
						NOTE: Terminated hole at predetermined depth at 3.4'

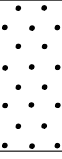
DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				20. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2415564 N 205206 NAD83				11. DATUM FOR ELEVATION SHOWN <i>NTBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-208				20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2		DISTURBED : 0 UNDISTURBED : 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				3.5. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				20. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (49.0' Water)				16. DATE HOLE : STARTED : 08/15/03 : COMPLETED : 08/15/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 52.5'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			

ELEVATION MgLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. i	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 49.0' WATER			Time begin vibracoring: 1830 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-49.0	49.0		OCEAN BOTTOM @49.0' SP - Tan coarse poorly graded sand, T/shell fragments		49.0'	
					1	
					49.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	50					
					51.0'	VIBRACORE BORING From 0.0' to 3.5' Ran 3.5' Rec: 3.2'
	51				2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
					51.5'	
	52					
	52.2					
			Assumed not Recovered			
	52.5					
-52.5	52.5		BOTTOM OF HOLE AT 52.5'			
	53					
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP-SM
						NOTE: Terminated hole at predetermined depth at 3.5'

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			20. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2417402 N 203240 NAD83			11. DATUM FOR ELEVATION SHOWN <i>TBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-209			20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 0 : UNDISTURBED : 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR			20. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			20. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (44.4' Water)			16. DATE HOLE : STARTED : 08/15/03 : COMPLETED : 08/15/03	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 46.4'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR STACEY SMITH	

ELEVATION M _g L _W	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	0		0.0' TO 44.4' WATER			Time begin vibracoring: 1847 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-44.4	44.4		OCEAN BOTTOM @44.4' Assumed not Recovered			NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
-46.4	46.4		BOTTOM OF HOLE AT 46.4'			VIBRACORE BORING From 0.0' to 2.0' Ran 2.0' Rec: 0.0' Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			LAB CLASSIFICATION Jar Number Classification
						NOTE: Terminated hole at predetermined depth at 2.0'

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				20. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2417412 N 203231 NAD83				11. DATUM FOR ELEVATION SHOWN <i>(BM or MSL)</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-209A				20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 0 : UNDISTURBED : 0			
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				20. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				16. DATE HOLE : STARTED : 08/15/03 : COMPLETED : 08/15/03			
7. THICKNESS OF OVERBURDEN N/A (47.8' Water)				17. ELEVATION TOP OF HOLE 0.0' MLLW			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 49.8'				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 47.8' WATER			Time begin vibracoring: 1856 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
	47					NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
-47.8	47.8		OCEAN BOTTOM @47.8'				
	48		Assumed not Recovered			VIBRACORE BORING From 0.0' to 2.0' Ran 2.0' Rec: 0.0'	
	49					Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
-49.8	49.8		49.8'				
	50		BOTTOM OF HOLE AT 49.8'				
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			LAB CLASSIFICATION Jar Number Classification	
						NOTE: Terminated hole at predetermined depth at 2.0'	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				20. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2419363 N 201064 NAD83				11. DATUM FOR ELEVATION SHOWNTBW or MSL MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : T1-03-V-210				20. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN :DISTURBED : UNDISTURBED 1 0			
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				2.0. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				20. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (47.3' Water)				16. DATE HOLE :STARTED :COMPLETED :08/15/03 :08/15/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 49.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 47.8' WATER			Time begin vibracoring: 0756 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-47.3	47.3		OCEAN BOTTOM @47.3' SP - Gray course poorly graded sand with shell fragments		47.3' 1 47.8'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	48		48.3'			VIBRACORE BORING From 0.0' to 1.7' Ran 1.7' Rec: 1.0	
-49.0	49.0		Assumed not Recovered 49.0'			Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	50		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			LAB CLASSIFICATION Jar Number Classification 1 SP	
						NOTE: Terminated hole at predetermined depth at 1.7'	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2421161 N 199148 NAD83				11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-211				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : UNDISTURBED : 1 : 0			
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (49.1' of Water)				16. DATE HOLE : STARTED : COMPLETED : 08/16/03 : 08/16/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 50.3'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 49.1' WATER			Time begin vibracoring: 0814 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
	49.0		OCEAN BOTTOM @49.1'		49.1'		
-49.1	49.1	• • • • • • • • • • • •	SP Gray, coarse, poorly graded sand, T/shell fragments.		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	50.0		Assumed not Recovered		49.6'		
-50.3	50.3		BOTTOM OF HOLE AT 50.3'			VIBRACORE BORING From 0.0' to 1.2' Ran 1.2' Rec: 0.8'	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
						LAB CLASSIFICATION Jar Number Classification 1 SP	
						NOTE: Terminated hole at predetermined depth at 1.2'	

[illegible]

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2424730 N 198909 NAD 83				11. DATUM FOR ELEVATION SHOWN <i>NTBM</i> or <i>MSL</i>			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-213				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 1 : 0			
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (49.9' of Water)				16. DATE HOLE : STARTED : 08/16/03 : COMPLETED : 08/16/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 52.5'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
19. SIGNATURE OF INSPECTOR STACEY SMITH							
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 49.9' WATER			Time begin vibracoring: 0901 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
	49.0						
-49.9	49.9		OCEAN BOTTOM @49.9'		49.9'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	50.0		SP Tan, coarse, poorly graded sand, w/shell frag- ments.		1	VIBRACORE BORING From 0.0' to 2.6' Ran 2.6' Rec: 1.4'	
	51.0				50.4'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	52.0		Assumed not Recovered				
-52.5	52.5		BOTTOM OF HOLE AT 52.5'			LAB CLASSIFICATION Jar Number Classification 1 SP	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 2.6'.	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD 2423188 N 201056 NAD83				11. DATUM FOR ELEVATION SHOWNTBM or MSL MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-214				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 4 : DISTURBED : 0 : UNDISTURBED : 0			
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (50.5' of Water)				16. DATE HOLE : STARTED : 08/16/03 : COMPLETED : 08/16/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 59.2'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR BEN LACKEY AND LARRY BENJAMIN			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 50.5' WATER			Time begin vibracoring: 0933 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
	50.0						
-50.5	50.5		OCEAN BOTTOM @50.5' MH Dark gray, elastic silt.		50.5'	Scale changed @55.0'. NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	51.0				1		
	51.0				51.0'	VIBRACORE BORING From 0.0' to 8.7' Run 8.7' Rec: 6.3'	
	52.0					Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	52.0				52.5'		
	53.0				2		
	53.0				53.0'		
	54.0					LAB CLASSIFICATION	
	54.0				54.5'	Jar Number Classification	
	55.0				3	1 CH 2 CH 3 SC 4 SC	
	55.0				55.0'		
	55.7		55.7'		4		
	56.8		56.8'		56.2'		
-56.8	56.8		SM Dark gray, fine, silty sand, T/shell fragments.				
57.0	57.0		Assumed not Recovered				
	59.0						
-59.2	59.2		BOTTOM OF HOLE AT 59.2'			NOTE: Terminated hole at predetermined depth at 8.7'.	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS									
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore											
2. LOCATION (Coordinates or Station) NC COORD E 2421469 N 203113 NAD83				11. DATUM FOR ELEVATION SHOWN <i>NTM</i> or <i>MSL</i> MLLW											
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL											
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-215				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 3 : 0											
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A											
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A											
7. THICKNESS OF OVERBURDEN N/A (49.4' of Water)				16. DATE HOLE : STARTED : 08/16/03 : COMPLETED : 08/16/03											
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW											
9. TOTAL DEPTH OF HOLE 52.8'				18. TOTAL CORE RECOVERY FOR BORING N/A %											
				19. SIGNATURE OF INSPECTOR STACEY SMITH											
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g									
0.0	0		0.0' to 49.4' WATER			Time begin vibracoring: 0949 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.									
-49.4	49.4		OCEAN BOTTOM @49.4' SP Tan, coarse, poorly graded sand, T/shell frag- ments.		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.									
	50.0					VIBRACORE BORING From 0.0' to 3.4' Ran 3.4' Rec: 3.4'									
	50.6		GP Gray, coarse, poorly graded gravel.		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.									
	51.0														
	51.7		SM Tan, fine, silty sand.		3										
	52.0														
-52.8	52.8		BOTTOM OF HOLE AT 52.8'			LAB CLASSIFICATION									
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			<table border="1"> <thead> <tr> <th>Jar Number</th> <th>Classification</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SP-SM</td> </tr> <tr> <td>2</td> <td>SP-SM</td> </tr> <tr> <td>3</td> <td>SM</td> </tr> </tbody> </table>		Jar Number	Classification	1	SP-SM	2	SP-SM	3	SM
Jar Number	Classification														
1	SP-SM														
2	SP-SM														
3	SM														
						NOTE: Terminated hole at predetermined depth at 3.4'.									

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2419338 N 205038 NAD83				11. DATUM FOR ELEVATION SHOWN <i>NTBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-216				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2 : 0			
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (48.2' of Water)				16. DATE HOLE : STARTED : 08/16/03 : COMPLETED : 08/16/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 51.1'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION M.L.W.	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 48.2' WATER			Time begin vibracoring: 1007 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-48.2	48.0		OCEAN BOTTOM @48.2'		48.2'		
	48.2	•••••	SP Tan, coarse, poorly graded sand, w/shell fragments.		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	49.0	•••••	49.0'		48.7' 49.0'		
		•••••	SM Gray, fine, silty sand, w/shell fragments.		2	VIBRACORE BORING From 0.0' to 2.9' Ran 2.9' Rec: 2.1'	
	50.0	•••••	50.3'		49.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
			Assumed not Recovered				
-51.1	51.0		BOTTOM OF HOLE AT 51.1'				
	51.1		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			LAB CLASSIFICATION Jor Number Classification 1 SP 2 SP-SM	
						NOTE: Terminated hole at predetermined depth at 2.9'	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2417713 N 207313 NAD83				11. DATUM FOR ELEVATION SHOW <i>NTBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-217				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 0 : DISTURBED : 0 : UNDISTURBED : 0			
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (45.4' OF WATER)				16. DATE HOLE : STARTED : 08/16/03 : COMPLETED : 08/16/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 45.8'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION M _{LLW}	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	0.0		0.0' TO 45.4' WATER			Time begin vibracoring: 1026 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
	45.0						
-45.4	45.4		OCEAN BOTTOM @45.4' Assumed not Recovered			NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
-45.8	45.8		BOTTOM OF HOLE AT 45.8'				
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			<div>VIBRACORE BORING</div> <div>From 0.0' to 0.4'</div> <div>Ran 0.4' Rec: 0.0'</div> <div>Top of vibracore soil ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.</div>	
						<div>LAB CLASSIFICATION</div> <div>Jar Number Classification</div>	
						NOTE: Terminated hole at predetermined depth at 0.4'.	
						sample is logged as be-	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2415460 N 210149 NAD83				11. DATUM FOR ELEVATION SHOWN <i>BM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-218				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 1 : 0			
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (45.3' of Water)				16. DATE HOLE : STARTED : 08/16/03 : COMPLETED : 08/16/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 47.1'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION M.L.W.	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 45.3' WATER			Time begin vibracoring: 1052 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-45.3	45.3		OCEAN BOTTOM @45.3' SP-SM Tan, fine, poorly graded, silty sand, T/shell fragments.		45.3'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0' EL MLLW.	
	46.0				45.8'	VIBRACORE BORING From 0.0' to 1.8' Ran 1.8' Rec: 1.8'	
47.1	47.1		BOTTOM OF HOLE AT 47.1'			Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			LAB CLASSIFICATION Jar Number 1 Classification SP-SM	
						NOTE: Terminated hole at predetermined depth at 1.8'.	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2413590 N 210149 NAD83				11. DATUM FOR ELEVATION SHOWN <i>NTBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-219				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 1 : 0			
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (42.7' of Water)				16. DATE HOLE : STARTED : 08/16/03 : COMPLETED : 08/16/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 45.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' to 42.7' WATER			Time begin vibracoring: 1111 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-42.7	42.7		OCEAN BOTTOM @42.7'		42.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	43.0		SP Gray, coarse, poorly graded sand.		1		
	44.0				43.2'	VIBRACORE BORING From 0.0' to 2.3' Ran 2.3' Rec: 1.6'	
-44.3	44.3		44.3'			Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
			ASSUMED NOT RECOVERED				
-45.0	45.0		BOTTOM OF HOLE AT 45.0'				
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				
						LAB CLASSIFICATION Jar Number Classification 1 SP	
						NOTE: Terminated hole at predetermined depth at 2.3'.	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2414662 N 211075 NAD83				11. DATUM FOR ELEVATION SHOWN <i>NTBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-220				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2 : DISTURBED : 0 : UNDISTURBED : 0			
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (44.2' of Water)				16. DATE HOLE : STARTED : 08/16/03 : COMPLETED : 08/16/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 47.9'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 44.2' WATER			Time begin vibracoring: 1131 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-44.2	44.2		OCEAN BOTTOM @44.2' SP Grayish tan, medium, poorly graded sand, T/shell fragments.		44.2'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	44.7				44.7'		
	45.0					VIBRACORE BORING From 0.0' to 3.7' Ran 3.7' Rec: 3.7'	
	46.0		46.0' SP-SM Tan, fine, poorly graded silty sand.		46.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	46.5				46.5'		
	47.0						
-47.9	47.9		BOTTOM OF HOLE AT 47.9'			LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP-SM	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 3.7'	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2416925 N 210105 NAD83				11. DATUM FOR ELEVATION SHOWN <i>B.M.</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-221				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2 : DISTURBED : 0 : UNDISTURBED : 0			
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (46.7' OF WATER)				16. DATE HOLE : STARTED : 08/16/03 : COMPLETED : 08/16/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 52.1'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION M.L.W.	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	0.0		0.0' TO 46.7' WATER			Time begin vibracoring: 1218 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
	46.0						
	-46.7		OCEAN BOTTOM @46.7		46.7'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0' EL MLLW.	
	47.0		SP Gray, medium, poorly graded sand, T/shell fragments.		1		
	48.0				47.2'	VIBRACORE BORING From 0.0' to 5.4' Ran 5.4' Rec: 3.6'	
	48.5'		48.5'		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	49.0		SM Tan, fine, silty sand, with shell fragments.		49.0'		
	50.0		50.3'			LAB CLASSIFICATION Jar Number Classification 1 SP 2 SM	
	51.0		ASSUMED NOT RECOVERED				
	52.0						
	-52.1		BOTTOM OF HOLE AT 52.1'			NOTE: Terminated hole at predetermined depth at 5.4'.	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2419581N 208964 NAD83				11. DATUM FOR ELEVATION SHOWN <i>WBM or MSL</i>			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-222				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : UNDISTURBED : 3 : 0			
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (45.4' of Water)				16. DATE HOLE : STARTED : COMPLETED : 08/16/03 : 08/16/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 51.6'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 45.4' WATER			Time begin vibracoring: 1239 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-45.4	45.4		OCEAN BOTTOM @45.4' SP Gray, coarse, poorly graded sand, w/shell fragments.		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	46.0				45.9'	VIBRACORE BORING From 0.0' to 6.2' Ran 6.2 Rec: 4.3'	
	47.0		GP Gray, coarse, poorly graded gravel.		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	48.0				47.5'		
	49.0		SM Grayish tan, fine, silty sand, T/shell fragments.		3	LAB CLASSIFICATION	
	50.0				48.4'	Jar Number Classification 1 SP 2 SP 3 SM	
	51.0				48.9'		
-51.6	51.6		BOTTOM OF HOLE AT 51.6'			NOTE: Terminated hole at predetermined depth at 6.2'.	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS									
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore											
2. LOCATION (Coordinates or Station) NC COORD E 2421422 N 206932 NAD83				11. DATUM FOR ELEVATION SHOWN <i>TBM</i> or <i>MSL</i> MLLW											
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL											
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-223				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 3 : 0											
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A											
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A											
7. THICKNESS OF OVERBURDEN N/A (43.5' of Water)				16. DATE HOLE : STARTED : 08/16/03 : COMPLETED : 08/16/03											
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW											
9. TOTAL DEPTH OF HOLE 52.1'				18. TOTAL CORE RECOVERY FOR BORING N/A %											
				19. SIGNATURE OF INSPECTOR STACEY SMITH											
ELEVATION M.L.L.W.	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g									
0.0	0		0.0' TO 43.5' WATER			Time begin vibracoring: 1259 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.									
-43.5	43.5		OCEAN BOTTOM @43.5'		43.5'	Scale changed @48.0' NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.									
	44.0		SP Tan, coarse, poorly graded sand, w/shell fragments.		1										
	45.0				2	VIBRACORE BORING From 0.0' to 8.6' Ran 8.6' Rec: 3.7'									
	46.0				3	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.									
	47.0		SM Gray, fine, silty sand, T/shell fragments.												
	48.0					LAB CLASSIFICATION									
	50.0					<table border="1"> <thead> <tr> <th>Jor Number</th> <th>Classification</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SP</td> </tr> <tr> <td>2</td> <td>SP</td> </tr> <tr> <td>3</td> <td>SM</td> </tr> </tbody> </table>		Jor Number	Classification	1	SP	2	SP	3	SM
Jor Number	Classification														
1	SP														
2	SP														
3	SM														
	52.0														
-52.1	52.1		BOTTOM OF HOLE AT 52.1'			NOTE: Terminated hole at predetermined depth at 8.6'.									
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM												

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2423382 N 204873 NAD83				11. DATUM FOR ELEVATION SHOWN <i>BM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-224				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 3 : 0			
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (46.4' of Water)				16. DATE HOLE : STARTED : 08/16/03 : COMPLETED : 08/16/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 52.6'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' to 46.4' WATER			Time begin vibracoring: 1322 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-46.4	46.4		OCEAN BOTTOM @46.4' SP Tan, coarse, poorly graded sand, with shell fragments.		46.4'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0' EL MLLW.	
	46.9				46.9'		
	48.0				48.4'	VIBRACORE BORING From 0.0' to 6.2' Ran 6.2' Rec: 6.2' Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	48.4		48.4'		48.4'		
	49.0		SM Greenish gray, fine, silty sand.		48.9'		
	50.0				50.5'		
	51.0				3		
	51.0				51.0'		
	52.0						
-52.6	52.6		BOTTOM OF HOLE AT 52.6'			NOTE: Terminated hole at predetermined depth at 6.2'.	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2425197 N 202896 NAD83				11. DATUM FOR ELEVATION SHOWN <i>(NTBM or MSL)</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-225				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 0 : 0			
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (46.9' of Water)				16. DATE HOLE : STARTED : 08/16/03 : COMPLETED : 08/16/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 50.2'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 46.9' WATER			Time begin vibracoring: 1343 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
46.0						NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
-46.9	46.9		OCEAN BOTTOM @46.9'				
47.0			ASSUMED NOT RECOVERED			VIBRACORE BORING From 0.0' to 3.3' Ran 3.3' Rec: 0.0'	
48.0						Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
49.0							
50.0							
-50.2	50.2		BOTTOM OF HOLE AT 50.2'			LAB CLASSIFICATION Jar Number Classification	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 3.3'	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2425316 N 202799 NAD83				11. DATUM FOR ELEVATION SHOWN <i>(TBM or MSL)</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-225A				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 0 : UNDISTURBED : 0			
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (47.0' of Water)				16. DATE HOLE : STARTED : 08/16/03 : COMPLETED : 08/16/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 50.9'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 47.0' WATER			Time begin vibracoring: 1353 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
	47.0		OCEAN BOTTOM @47.0' ASSUMED NOT RECOVERED			NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	48.0					VIBRACORE BORING From 0.0' to 3.9' Ran 3.9' Rec: 0.0'	
	49.0					Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	50.0						
-50.9	50.9		BOTTOM OF HOLE AT 50.9'			LAB CLASSIFICATION Jar Number Classification	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 3.9'	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2425320 N 202789 NAD83				11. DATUM FOR ELEVATION SHOWN <i>TBM</i> or <i>MSL</i>			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) TI-03-V-225B				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN :DISTURBED 3 :UNDISTURBED 0			
5. NAME OF DRILLER ROBY PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (46.8' of Water)				16. DATE HOLE :STARTED 08/16/03 :COMPLETED 08/16/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 51.4'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 46.8' WATER			Time begin vibracoring: 1423 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
	46.0						
-46.8	46.8		OCEAN BOTTOM @46.8'		46.8'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	47.0	•••••	SP Gray, coarse, poorly graded sand, T/shell fragments.		1		
	48.0	•••••			47.3'	VIBRACORE BORING From 0.0' to 4.6' Ran 4.6' Rec: 4.6'	
	49.0	•••••			48.6'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	50.0	•••••	48.6'		2		
	51.0	•••••	SM Grayish tan, fine, silty sand, T/shell fragments.		49.1'		
-51.4	51.4	•••••	BOTTOM OF HOLE AT 51.4'		50.5'	LAB CLASSIFICATION	
					3	Jar Number Classification 1 SP 2 SM 3 SM	
					51.0'		
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 4.6'	

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[illegible]

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2425464 N 206734 NAD83				11. DATUM FOR ELEVATION SHOW <i>WTBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-228				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 4 : UNDISTURBED 0			
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (46.9' Water)				16. DATE HOLE : STARTED 08/17/03 : COMPLETED 08/17/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 56.9'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0			0.0' TO 46.9' WATER			Time begin vibracoring: 0906 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
	46					Scale changed @49.0'.	
						NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0' EL MLLW.	
-46.9	46.9		OCEAN BOTTOM @46.9'		46.9'		
	47		SP - Gray coarse poorly graded sand, T/shell fragments		1	VIBRACORE BORING	
					47.4'	From 0.0' to 10.0' Ran 10.0' Rec: 6.7'	
	48		47.9'		47.9'		
			SP-SM - Gray medium poorly graded silty sand with shell fragments		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	49				48.4'		
	51		50.6'		50.6'		
			T/shell fragments Tan, fine grain sizes		3	LAB CLASSIFICATION	
					51.1'	Jar Number Classification	
					52.5'	1 SP	
					53.0'	2 SP-SM	
						3 SP-SM	
						4 SP-SM	
	53		53.6'		53.0'		
			Assumed Not Recovered				
	55						
-56.9	56.9		56.9'				
			BOTTOM OF HOLE AT 56.9'				
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 10.0'	

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2427160 N 204809 NAD83		11. DATUM FOR ELEVATION SHOWN <i>FBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-229		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 4 : UNDISTURBED : 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (48.5' Water)		16. DATE HOLE : STARTED : 08/17/03 : COMPLETED : 08/17/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 55.7'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR STACEY SMITH	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0			0.0' TO 48.5' WATER			Time begin vibracoring: 0926 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-48.5	48.5		OCEAN BOTTOM @48.5'		48.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	49		SP-SM - Gray fine poorly graded silty sand with shell fragments		1	
	49.7				49.0'	
	50		SM - Gray fine silty sand with shell fragments		49.7'	VIBRACORE BORING From 0.0' to 7.2' Ran 7.2' Rec: 6.3'
	51				2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	52				50.2'	
	53				52.0'	
	54				3	LAB CLASSIFICATION
	55				52.5'	Jar Number Classification 1 SP-SM 2 SC 3 SC 4 SM
	56				54.0'	
	55.7		Assumed Not Recovered		4	
	55.7				54.5'	
	56					NOTE: Terminated hole at predetermined depth at 7.2'
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2428243 N 202087 NAD83		11. DATUM FOR ELEVATION SHOWN <i>MBM or MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-230		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 5 : DISTURBED : 0 : UNDISTURBED	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (48.3' Water)		16. DATE HOLE : STARTED : 08/17/03 : COMPLETED : 08/17/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 60.3'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
19. SIGNATURE OF INSPECTOR STACEY SMITH			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0			0.0' TO 48.3' WATER			Time begin vibracoring: 0949 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-48.3	48.3		OCEAN BOTTOM @48.3'		48.3'	
			SM - Dark gray fine silty sand with shell fragments		1 48.8'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	50				50.8'	
			MH - Dark gray elastic silt with shell fragments		2 51.3'	VIBRACORE BORING From 0.0' to 12.0' Ran 12.0' Rec: 11.8'
	52					Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	54				54.0'	
					3 54.5'	
	56					
					57.0'	LAB CLASSIFICATION
					4	Jar Number Classification
						1 SC
						2 CH
						3 CH
						4 CH
						5 CH
	58				57.5'	
					59.0'	
					5	
	60				59.5'	
-60.3	60.3		Assumed Not Recovered 60.3'			
			BOTTOM OF HOLE AT 60.3'			
	61		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						NOTE: Terminated hole at predetermined depth at 12.0'

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2430211 N 201136 NAD83		11. DATUM FOR ELEVATION SHOWN <i>(BM or MSL)</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-231		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 3 : UNDISTURBED : 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (48.0' Water)		16. DATE HOLE : STARTED : 08/17/03 : COMPLETED : 08/17/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 53.6'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR STACEY SMITH	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0			0.0' TO 48.0' WATER			Time begin vibracoring: 1010 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-48.0	48.0		OCEAN BOTTOM @48.0' SM - gray fine silty sand with shell fragments		48.0'	
					1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	49				48.5'	
	50					VIBRACORE BORING From 0.0' to 5.6' Ran 5.6' Rec: 5.0'
	51		50.7' MH - Dark gray elastic silty, T/shell fragments		50.7'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	52		51.8' SM - Gray fine silty sand with shell fragments		51.2'	
	53		53.0' Assumed Not Recovered		51.8'	
	54		53.6' BOTTOM OF HOLE AT 53.6'		3	LAB CLASSIFICATION
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM		52.3'	Jar Number Classification 1 SP- SM 2 CH 3 SM
						NOTE: Terminated hole at predetermined depth at 5.6'

PROJECT TOPSAIL INLET HOLE NO. TI-03-V-232

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2430968 N 204647 NAD83		11. DATUM FOR ELEVATION SHOWN <i>FBM</i> or <i>MSL</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-233		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 2 : UNDISTURBED : 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (48.5' Water)		16. DATE HOLE : STARTED : 08/17/03 : COMPLETED : 08/17/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 51.6'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR STACEY SMITH	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0			0.0' TO 48.5' WATER			Time begin vibracoring: 1039 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-48.5	48.5		OCEAN BOTTOM @48.5' SM - Tan fine silty sand, T/shell fragments		48.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	49				49.0'	VIBRACORE BORING From 0.0' to 3.1' Ran 3.1' Rec: 2.6'
	50				50.5'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	51			51.1'	2	
			Assumed Not Recovered		51.0'	
-51.6	51.6		BOTTOM OF HOLE AT 51.6'	51.6'		
	52		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			LAB CLASSIFICATION Jar Number Classification 1 SM 2 SM
						NOTE: Terminated hole at predetermined depth at 3.1'

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibrocore		
2. LOCATION (Coordinates or Station) NC COORD E 2425348 N 214315 NAD83			11. DATUM FOR ELEVATION SHOWN <i>FBM</i> or <i>MSL</i> MLLW		
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL		
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-235			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : <i>DISTURBED</i> 2 : <i>UNDISTURBED</i> 0		
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A		
7. THICKNESS OF OVERBURDEN N/A (45.8' Water)			16. DATE HOLE : <i>STARTED</i> 08/20/03 : <i>COMPLETED</i> 08/20/03		
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW		
9. TOTAL DEPTH OF HOLE 49.7'			18. TOTAL CORE RECOVERY FOR BORING N/A %		
			19. SIGNATURE OF INSPECTOR STACEY SMITH		

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOV- ERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
MLLW	feet	c	d		f	g
0.0			0.0' TO 45.8' WATER			Time begin vibrocoreing: 0805 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
	45					
			OCEAN BOTTOM @45.8'		45.8'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
-45.8	45.8	•••••	SP - Gray course poorly graded sand with shell fragments		1	
	46	•••••			46.3'	VIBRACORE BORING From 0.0' to 3.9' Ran 3.9' Rec: 2.5'
	47	•••••			47.3'	Top of vibrocore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
		•••••	47.3'		2	
	48	•••••	SM - Olive gray fine silty sand		47.8'	
		•••••	48.3'			
			Assumed Not Recovered			
	49					
			49.7'			LAB CLASSIFICATION
-49.7	49.7		BOTTOM OF HOLE AT 49.7'			Jar Number Classification 1 SP 2 SM
	50					
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						NOTE: Terminated hole at predetermined depth at 3.9'

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2427253 N 212294 NAD83				11. DATUM FOR ELEVATION SHOWN <i>MBM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-236				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 1 : DISTURBED : 0 : UNDISTURBED			
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (46.8' Water)				16. DATE HOLE : STARTED : 08/20/03 : COMPLETED : 08/20/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 49.7'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
19. SIGNATURE OF INSPECTOR STACEY SMITH							
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0			0.0' TO 46.8' WATER			Time begin vibracoring: 0827 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
46							
-46.8	46.8		OCEAN BOTTOM @46.8'		46.8'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
47			SP-SM - Gray fine poorly graded silty sand		1		
48					47.3'	VIBRACORE BORING From 0.0' to 2.9' Ran 2.9' Rec: 1.2'	
48			48.0'			Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
49			Assumed Not Recovered				
-49.7	49.7		49.7'				
50			BOTTOM OF HOLE AT 49.7'			LAB CLASSIFICATION Jar Number Classification 1 SM	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				
						NOTE: Terminated hole at predetermined depth at 2.9'	

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2429152 N 210165 NAD83		11. DATUM FOR ELEVATION SHOWN <i>(TBM or MSL)</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-237		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 1 : UNDISTURBED 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (49.1' Water)		16. DATE HOLE : STARTED : 08/20/03 : COMPLETED : 08/20/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 51.4'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR STACEY SMITH	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0			0.0' TO 49.1' WATER			Time begin vibracoring: 0849 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-49.1	49.1		OCEAN BOTTOM @49.1'		49.1'	
			SP-SM - Gray medium poorly graded silty sand, T/shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	50				49.6'	
			50.6'			VIBRACORE BORING From 0.0' to 2.3' Ran 2.3' Rec: 1.5'
	51		Assumed Not Recovered			Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
-51.4	51.4		51.4'			
	52		BOTTOM OF HOLE AT 51.4'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						LAB CLASSIFICATION Jar Number Classification 1 SP-SM
						NOTE: Terminated hole at predetermined depth at 2.3'

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2430958 N 208179 NAD83				11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-238				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2 : 0			
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (48.3' Water)				16. DATE HOLE : STARTED : 08/20/03 : COMPLETED : 08/20/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 50.5'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0			0.0' TO 48.3' WATER			Time begin vibracoring: 0909 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-48.3	48.3		OCEAN BOTTOM @48.3'		48.3'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
			SP - Gray course poorly graded sand, T/shell fragments		1		
	49				48.8'		
					49.4'	VIBRACORE BORING	
			SM - Gray fine silty sand		2	From 0.0' to 2.2' Ran 2.2' Rec: 1.8'	
	50				49.9'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom.	
			Assumed Not Recovered			When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
-50.5	50.5		50.5'				
			BOTTOM OF HOLE AT 50.5'				
	51						
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			LAB CLASSIFICATION	
						Jar Number Classification	
						1 SP	
						2 SP-SM	
						NOTE: Terminated hole at predetermined depth at 2.2'	

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET		10. SIZE AND TYPE OF BIT 4" Dia. Vibracore	
2. LOCATION (Coordinates or Station) NC COORD E 2432775 N 206175 NAD83		11. DATUM FOR ELEVATION SHOWN <i>(BM or MSL)</i> MLLW	
3. DRILLING AGENCY WILMINGTON DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL	
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-239		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : UNDISTURBED 2 : 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR		14. TOTAL NUMBER CORE BOXES N/A	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN N/A (48.1' Water)		16. DATE HOLE : STARTED : COMPLETED 08/20/03 : 08/20/03	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLLW	
9. TOTAL DEPTH OF HOLE 50.5'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR STACEY SMITH	

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0			0.0' TO 48.1' WATER			Time begin vibracoring: 0940 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-48.1	48.1		OCEAN BOTTOM @48.1'		48.1'	
			SP - Tan coarse poorly graded sand, T/shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	49				48.6'	
					49.6'	VIBRACORE BORING From 0.0' to 2.4' Ran 2.4' Rec: 2.4'
	50		GP - Light gray coarse poorly graded gravel (limestone)		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
-50.5	50.5		50.5'		50.1'	
	51		BOTTOM OF HOLE AT 50.5'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP-SM
						NOTE: Terminated hole at predetermined depth at 2.4'

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2435058 N 208427 NAD83				11. DATUM FOR ELEVATION SHOW (TBM or MSL) MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-240				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2		DISTURBED : 0 UNDISTURBED : 0	
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A		16. DATE HOLE : STARTED : 08/20/03 : COMPLETED : 08/20/03	
7. THICKNESS OF OVERBURDEN N/A (50.0' Water)				17. ELEVATION TOP OF HOLE 0.0' MLLW			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 59.6'				19. SIGNATURE OF INSPECTOR STACEY SMITH			

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0			0.0' TO 50.0' WATER			Time begin vibracoring: 1008 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-50.0	50.0		OCEAN BOTTOM @50.0'		50.0'	
			SP - Gray coarse poorly graded sand, T/shell fragments		1	Scale changed @54.0' . NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	51				50.5'	
	52		52.0'		52.0'	
			SM - Gray fine silty sand, T/shell fragments		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	53		52.8'		52.5'	
			Assumed Not Recovered			
	54					
	56					
	58					
-59.6	59.6		59.6'			
	60		BOTTOM OF HOLE AT 59.6'			
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 9.6'

VIBRACORE BORING

From 0.0' to 9.6'

Ran 9.6' Rec: 2.8'

LAB CLASSIFICATION

Jar Number	Classification
1	SP
2	SP-SM

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2432931N 210063 NAD83				11. DATUM FOR ELEVATION SHOWN <i>BM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-241				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 4 : DISTURBED : 0 : UNDISTURBED : 0			
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (49.0' Water)				16. DATE HOLE : STARTED : 08/20/03 : COMPLETED : 08/20/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 58.4'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0			0.0' TO 49.0' WATER			Time begin vibracoring: 1029 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-49.0	49.0		OCEAN BOTTOM @49.0'		49.0'		
			SP - Gray coarse poorly graded sand, T/shell fragments		1	Scale changed @53.0'.	
	50				49.5'	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	51		50.8' with shell fragments		51.2'	VIBRACORE BORING From 0.0' to 9.4' Ran 9.4' Rec: 7.1'	
	52		51.2' SM - Gray fine silty sand, T/shell fragments		2	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	53		53.0' MH - Dark gray elastic silt		3		
	54		54.0' SM - Dark gray fine silty sand, T/shell fragments		4	LAB CLASSIFICATION	
	55		56.1'			Jar Number Classification 1 SP 2 SP-SM 3 SC 4 SC	
	57		Assumed Not Recovered				
-58.4	58.4		58.4' BOTTOM OF HOLE AT 58.4'				
	59		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			NOTE: Terminated hole at predetermined depth at 9.4'	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2435123 N 211995 NAD83				11. DATUM FOR ELEVATION SHOWN <i>(BM or MSL)</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-242				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 0 : DISTURBED : 0 : UNDISTURBED : 0			
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (49.0' Water)				16. DATE HOLE : STARTED : 08/20/03 : COMPLETED : 08/20/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 51.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0			0.0' TO 49.0' WATER			Time begin vibracoring: 1059 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-49.0	49.0		OCEAN BOTTOM @49.0'				
	50		Assumed Not Recovered			NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
						VIBRACORE BORING From 0.0' to 2.0' Ran 2.0' Rec: 0.0'	
-51.0	51.0		BOTTOM OF HOLE AT 51.0'			Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				
						LAB CLASSIFICATION Jar Number Classification	
						NOTE: Terminated hole at predetermined depth at 2.0'	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2435128 N 211996 NAD83				11. DATUM FOR ELEVATION SHOWN <i>BM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-242A				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 0 : UNDISTURBED : 0			
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (49.5' Water)				16. DATE HOLE : STARTED : 08/20/03 : COMPLETED : 08/20/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 51.5'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0			0.0' TO 49.5' WATER			Time begin vibracoring: 1107 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-49.5	49.5		OCEAN BOTTOM @49.5'			NOTE: TOP OF HOLE is defined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	50		Assumed Not Recovered			VIBRACORE BORING From 0.0' to 2.0' Ran 2.0' Rec: 0.0'	
	51					Top of vibracore soil sample is logged as beginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
-51.5	51.5		BOTTOM OF HOLE AT 51.5'				
	51		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			LAB CLASSIFICATION Jar Number Classification	
						NOTE: Terminated hole at predetermined depth at 2.0'	

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore		
2. LOCATION (Coordinates or Station) NC COORD E 2437071 N 210130 NAD83			11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW		
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL		
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-243			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 0 : DISTURBED : 0 : UNDISTURBED : 0		
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A		
7. THICKNESS OF OVERBURDEN N/A (50.6' Water)			16. DATE HOLE : STARTED : 08/20/03 : COMPLETED : 08/20/03		
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW		
9. TOTAL DEPTH OF HOLE 53.8'			18. TOTAL CORE RECOVERY FOR BORING N/A %		
			19. SIGNATURE OF INSPECTOR STACEY SMITH		

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0			0.0' TO 50.6' WATER			Time begin vibracoring: 1126 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-50.6	50.6		OCEAN BOTTOM @50.6'			NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	51		Assumed Not Recovered			VIBRACORE BORING From 0.0' to 3.2' Ran 3.2' Rec: 0.0'
	52					Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
	53					
-53.8	53.8		53.8'			
	54		BOTTOM OF HOLE AT 53.8'			LAB CLASSIFICATION Jar Number Classification
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						NOTE: Terminated hole at predetermined depth at 3.2'

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2438605 N 211705 NAD83				11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-244				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : 0 : UNDISTURBED : 0			
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (50.5' Water)				16. DATE HOLE : STARTED : 08/20/03 : COMPLETED : 08/20/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 52.5'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0			0.0' TO 50.5' WATER			Time begin vibracoring: 1148 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
	50						
-50.5	50.5		OCEAN BOTTOM @50.5'			NOTE: TOP OF HOLE is defined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	51		Assumed Not Recovered				
	52					VIBRACORE BORING From 0.0' to 2.0' Ran 2.0' Rec: 0.0'	
-52.5	52.5		52.5'			Top of vibracore soil sample is logged as beginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
			BOTTOM OF HOLE AT 52.5'				
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				
						LAB CLASSIFICATION Jar Number Classification	
						NOTE: Terminated hole at predetermined depth at 2.0'	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD E 2441687 N 214522 NAD83				11. DATUM FOR ELEVATION SHOWN <i>TBM or MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-245				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 2 : UNDISTURBED 0			
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (47.2' Water)				16. DATE HOLE : STARTED : 08/20/03 : COMPLETED : 08/20/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 50.2'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR STACEY SMITH			
ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0			0.0' TO 47.2' WATER			Time begin vibracoring: 1217 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
-47.2	47.2		OCEAN BOTTOM @47.2'		47.2'		
		•••••	SP - Tan coarse poorly graded sand with shell fragments		1	NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
	48	•••••	48.3'		47.7'		
		•••••	T/shell fragments		48.5'	VIBRACORE BORING From 0.0' to 3.0' Ran 3.0' Rec: 2.5'	
	49	•••••			2		
		•••••			49.0'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	50		Assumed Not Recovered				
-50.2	50.2		50.2'				
			BOTTOM OF HOLE AT 50.2'				
	51		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP	
						NOTE: Terminated hole at predetermined depth at 3.0'	

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS
1. PROJECT TOPSAIL INLET			10. SIZE AND TYPE OF BIT 4" Dia. Vibracore		
2. LOCATION (Coordinates or Station) NC COORD E 2439717 N 216282 NAD83			11. DATUM FOR ELEVATION SHOW WTBM or MSL MLLW		
3. DRILLING AGENCY WILMINGTON DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL		
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-246			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED : UNDISTURBED 1 : 0		
5. NAME OF DRILLER ROBBIE PAGE CRANE OPERATOR			14. TOTAL NUMBER CORE BOXES N/A		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A		
7. THICKNESS OF OVERBURDEN N/A (48.0' Water)			16. DATE HOLE : STARTED : COMPLETED 08/20/03 : 08/20/03		
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0' MLLW		
9. TOTAL DEPTH OF HOLE 50.1'			18. TOTAL CORE RECOVERY FOR BORING N/A		
			19. SIGNATURE OF INSPECTOR STACEY SMITH		

ELEVATION MLLW	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0			0.0' TO 48.0' WATER			Time begin vibracoring: 1236 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.
-48.0	48.0		OCEAN BOTTOM @48.0'		48.0'	
			SP - Light gray coarse poorly graded sand with rock fragments and T/shell fragments		1	NOTE: TOP OF HOLE is defined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.
	49				48.5'	
						VIBRACORE BORING From 0.0' to 2.1' Ran 2.1' Rec: 1.3'
			Assumed Not Recovered			
-50.1	50.1					Top of vibracore soil sample is logged as beginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.
			BOTTOM OF HOLE AT 50.1'			
	51		SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM			
						LAB CLASSIFICATION Jor Number Classification 1 SP-SM
						NOTE: Terminated hole at predetermine depth at 2.1'

ENG FORM 1836 PREVIOUS EDITIONS ARE OBSOLETE. PROJECT TOPSAIL INLET HOLE NO. MAR 71 TI-03-V-263

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore			
2. LOCATION (Coordinates or Station) NC COORD. E 2408123 N 217889 NAD 83				11. DATUM FOR ELEVATION SHOW <i>NTBM</i> or <i>MSL</i> MLLW			
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL)			
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-363				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : 2 : 0			
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN N/A (18.9' of Water)				16. DATE HOLE : STARTED : 11/22/03 : COMPLETED : 11/22/03			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW			
9. TOTAL DEPTH OF HOLE 26.9'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR LARRY BENJAMIN			
ELEVATION M.L.W.	DEPTH feet	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	0		0.0' TO 18.9' WATER			Time begin vibracoring: 0759 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.	
	18.0					Scale changed @23.0'.	
						NOTE: TOP OF HOLE is de- fined as surface of water and compensation is made for the tide such that top of Hole is 0.0 EL MLLW.	
-18.9	18.9		OCEAN BOTTOM @ 18.9'		18.9'		
	19.0		SP Tan, coarse, poorly graded, sand.		1	VIBRACORE BORING From 0.0' to 8.0' Run 8.0 Rec: 4.0'	
	20.0				19.4'	Top of vibracore soil sample is logged as be- ginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.	
	21.0				21.0'		
	22.0				2		
	22.9				21.5'		
	23.0		ASSUMED NOT RECOVERED			LAB CLASSIFICATION Jar Number Classification 1 SP 2 SP	
	25.0					NOTE: Terminated hole at vibraore refusal depth at 8.0'	
-26.9	26.9		BOTTOM OF HOLE AT 26.9'				
			SOILS ARE FIELD VISUALLY CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM				

DIVISION		SOUTH ATLANTIC		INSTALLATION		WILMINGTON DISTRICT		SHEET 1 OF 1 SHEETS	
1. PROJECT TOPSAIL INLET				10. SIZE AND TYPE OF BIT 4" Dia. Vibracore					
2. LOCATION (Coordinates or Station) NC COORD. E 2410443 N 220053 NAD 83				11. DATUM FOR ELEVATION SHOWN <i>(B.M. or MSL)</i> MLLW					
3. DRILLING AGENCY WILMINGTON DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL VIBRA CORE SNELL					
4. HOLE NO. (As shown on drawing title and file number) : TI-03-V-364				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN : DISTURBED 6 : UNDISTURBED 0					
5. NAME OF DRILLER LESTER GAUGHF CRANE OPERATOR				14. TOTAL NUMBER CORE BOXES N/A					
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A					
7. THICKNESS OF OVERBURDEN N/A (23.8' of Water)				16. DATE HOLE : STARTED 11/22/03 : COMPLETED 11/22/03					
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLLW					
9. TOTAL DEPTH OF HOLE 37.8'				18. TOTAL CORE RECOVERY FOR BORING N/A %					
				19. SIGNATURE OF INSPECTOR LARRY BENJAMIN					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)			
MLLW	feet	c	d	e	f	g			
0.0	0		0.0' TO 23.8' WATER			Time begin vibracoring: 0858 hrs. Soils described by Larry Benjamin, Civil Engr. Tech.			
	23.0					Scale changed @ 35.0'.			
-23.8	23.8	•••••	OCEAN BOTTOM @ 23.8' SP Gray, fine, poorly graded, sand.		23.8'	NOTE: TOP OF HOLE is defined as surface of water and compensation is made for the tide such that top of Hole is 0.0' EL MLLW.			
	25.0	•••••			1				
	27.0	•••••			24.3'				
	29.0	•••••			25.5'				
	31.0	•••••			2	VIBRACORE BORING From 0.0' to 14.0' Ran 14.0' Rec: 11.0'			
	33.0	•••••			26.0'				
	35.0	•••••			27.5'	Top of vibracore soil sample is logged as beginning at Ocean Bottom. When Run is greater than Recovery, the difference is depicted as Assumed Not Recovered.			
	37.0	•••••			3				
	39.0	•••••			28.0'				
	41.0	•••••			29.5'				
	43.0	•••••			4				
	45.0	•••••			30.0'				
	47.0	•••••			31.8'				
	49.0	•••••			5	LAB CLASSIFICATION			
	51.0	•••••			32.3'	Jar Number Classification			
	53.0	•••••			34.0'	1 SP			
	55.0	•••••			6	2 SP			
	57.0	•••••			34.5'	3 SP			
	59.0	•••••				4 SP			
	61.0	•••••				5 SP			
	63.0	•••••				6 SP-SM			
	65.0	•••••							
	67.0	•••••							
	69.0	•••••							
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