

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION SAVANNAH RIVER HARBOR		Hole No. CS-4	
1. PROJECT KINGS ISLAND TURNING BASIN		2. LOCATION (Coordinate or Station) 75° 12.5' N 75° 5' W		10. SIZE AND TYPE OF BIT 1 1/2" DIA. BIT		SHEET 1 OF 2 SHEETS	
3. DRILLING AGENCY SPRINGHUR DISTRICT		4. HOLE NO. (As shown on drawing title and file number) CS-4		11. DATUM FOR ELEVATION SHOWN (TBM or MLLW) MLLW		12. MANUFACTURER'S DESIGNATION OF DRILL FAIRING 314	
5. NAME OF DRILLER J. McDONALD		6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 7		UNDISTURBED 0	
7. THICKNESS OF OVERBURDEN		8. DEPTH DRILLED INTO ROCK		14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUND WATER	
9. TOTAL DEPTH OF HOLE 46.0' ELEVATION MLLW		16. DATE HOLE 22 APRIL 1973		STARTED 22 APRIL 1973		COMPLETED 22 APRIL 1973	
		17. ELEVATION TOP OF HOLE 0.0 MLLW		18. TOTAL CORE RECOVERY FOR BORING 3		19. SIGNATURE OF INSPECTOR Charles D. Griffin	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	0				1	18
	5		SM-TAN SILTY FINE & MEDIUM SAND		2	10
	10				3	12
	15					18
	20					17
	25		SP SM-TAN POORLY GRADED SAND		4	19
	30				5	16
						20
						21
						22
						35
						30
						34
						26
						29
						36
						21
					6	12

CONTINUED ON SHEET No 2

DRILLING LOG (Cont Sheet,		LOCATION TOP OF HOLE		0.3 BELOW MLLW		Hole No. CS-4	
PROJECT			INSTALLATION			SHEET 2	
KINGS ISLAND TURNING BASIN			SAYUNAN RIVER HARBOR			OF 2 SIFTS	
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)	
a	b	c	d	e	f	g Blows	
	35		CH. GRAY FAT CLAY SLIGHTLY MICACEOUS				51
							49
							41
							68
							61
							59
	40		SP, SM. GREEN POORLY GRADED SAND		7		71
							72
							68
							59
-46.3	45						
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 1/2" ID splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG

DIVISION

SOUTH ATLANTIC

IN: ALLATION

SAVANNAH IER HARBOR

SHEET 1
OF 2 SHEETS

PROJECT

KINGS ISLAND TURNING BASIN

2. LOCATION (Coordinates or Station)

TA 100+250 AT WATERS EDGE

DRILLING AGENCY

SAVANNAH DISTRICT

HOLE NO. (As shown on drawing title and title number)

CS 5

3. NAME OF DRILLER

J. McDONALD

4. DIRECTION OF HOLE

☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.

7. THICKNESS OF OVERBURDEN

8. DEPTH DRILLED INTO ROCK

9. TOTAL DEPTH OF HOLE

45.9' BELOW MLW

10. SIZE AND TYPE OF BIT

3/8" 10 SPLITSPRINT

11. SATURN FOR ELEVATION SHOWN (FUM - MLW)

M.L.W.

12. MANUFACTURER'S DESIGNATION OF DRILL

FAILING 314

13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN

DISTURBED 4 UNDISTURBED 0

14. TOTAL NUMBER CORE BOXES

15. ELEVATION GROUND WATER

16. DATE HOLE STARTED

26 APRIL 1973 COMPLETED 26 APRIL 1973

17. ELEVATION TOP OF HOLE 0.0 MLW

18. TOTAL CORE RECOVERY FOR BORING

19. SIGNATURE OF INSPECTOR

Charles D. Liffman

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	0					
		WATER	WATER DEPTH 1.5 AT MLW			
5			ML- GRAY INORGANIC SILT			
10						
15						
20						
25						
30			SM-TAN & GRAY SILTY FINE MEDIUM SAND			
			CONTINUED ON SHEET No. 2			

FOR
ONLY

2

10

DRILLING LOG (Cont Sheet)

FROM TOP OF HOLE

-1.5 FEET

Hole No. CS 5

PROJECT

INSTALLATION

SHEET 2

OF 2 SHEETS

KINGS ISLAND TUNNELING REFIN

SLYDANION OVER 10000

ELEVATION a	DEPTH b	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
	30		CL- GREEN & GRAY SILTY SANDY CLAY		3	9
	35		SP SM. GREEN POORLY GRADED SILTY SAND		4	11
	40					21
	45					19
						20
						30
						34
						36
						46
						49
NOTE: Soils field classified in accordance with the Unified Soil Classification System,				BLOWS PER FOOT: Number required to drive 1 1/2" ID splitspoon w/140 lb. hammer falling 30".		

DRILLING LOG		DIVISION <u>SOUTH ATLANTIC</u>		INSTALLATION <u>SAVANNAH RIVER HARBOR</u>		Hole No. <u>CS-6</u>	
PROJECT <u>KINGS ISLAND TURNING BASIN</u>		LOCATION (Coordinates or Station) <u>NORTH 50' OF BN 14</u>		10. SIZE AND TYPE OF BIT <u>1 3/8" 10 SPLITSPON</u>		SHEET <u>1</u> OF 2 SHEETS	
DRILLING AGENCY <u>SAVANNAH DISTRICT</u>		HOLE NO. (As shown on drawing file and file number) <u>CS 6</u>		11. DATUM FOR ELEVATION SHOWN (Tide or MSL) <u>MLW</u>			
NAME OF DRILLER <u>L. MC DONALD</u>		12. MANUFACTURER'S DESIGNATION OF DRILL <u>FRILING 314</u>		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED <u>4</u>	UNDISTURBED <u>0</u>
DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUND WATER			
THICKNESS OF OVERBURDEN		16. DATE HOLE <u>27 APRIL 1973</u>		STARTED <u>27 APRIL 1973</u>		COMPLETED <u>27 APRIL 1973</u>	
DEPTH DRILLED INTO ROCK		17. ELEVATION TOP OF HOLE <u>0.0' MLW</u>		18. TOTAL CORE RECOVERY FOR BORING			
TOTAL DEPTH OF HOLE <u>29.8' BELOW MLW</u>		19. SIGNATURE OF INSPECTOR <u>Charles D. Griffin</u>					

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	5		WATER			
	10					
	15					
6.5			WATER DEPTH 16.5 AT MLW			
	20		ML - GRAY INORGANIC SILT W/ SILTY SAND LAYERS		1	
	25		CH - GRAY FAT CLAY W/ GRAVEL		2	
	30		CONTINUED ON SHEET No. 2		3	

LEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOV- ERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water lost, depth of weathering, etc., if significant)
	30		SM- GRAY SILTY FINE MEDIUM SAND			21- 32- 34- 41- 40-
	35					
	40		GREEN, SLIGHTLY MICACEOUS		4	43- 46- 49-
	45					51- 52- 56-
46.5						
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 1/2" ID splitspoon w/140 lb hammer falling 30"

DRILLING LOG		DIVISION		INSTALLATION		Hole No.	
PROJECT		SOUTH ATLANTIC		SAVANNAH R. ? HARBOR		SHEET 1 OF 2 SHEETS	
LOCATION (Coordinates or Station)		KINGS ISLAND TURNING BASIN		10. SIZE AND TYPE OF BIT		1 1/2" 10 SPLITSPRONG	
LOCATION (Coordinates or Station)		OPPOSITE STA. 924500 AT WATERS EDGE		11. DATUM FOR ELEVATION SHOWN (TBM or MLLW)		MLW	
DRILLING AGENCY		SAVANNAH DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL		FAILING 314	
HOLE NO. (As shown on drawing title and file number)		CS 7		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5 UNDISTURBED 0	
NAME OF DRILLER		L. McDONALD		14. TOTAL NUMBER CORE BOXES		0	
DIRECTION OF HOLE		☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER			
THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED 27 APRIL 1973 COMPLETED 27 APRIL 1973	
DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE		0.0' MLW	
TOTAL DEPTH OF HOLE		45.5' BELOW MLW		18. TOTAL CORE RECOVERY FOR BORING		3	
				19. SIGNATURE OF INSPECTOR		Charles D. Griffin	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-0.8			WATER DEPTH 0.9' AT MLW		JAR	
	5		ML - GRAY INORGANIC SILT W/SILTY SAND LAYERS		1	
	10					
	15		CH - GRAY FAT CLAY W/GRAVEL		2	
	20		SM - GRAY SILTY FINE MEDIUM SAND			
	25					
	30		GREEN, SLIGHTLY MICACEOUS		3	
					4	

CONTINUED ON SHEET NO. 2

LEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOV- ERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	30					8 BLOWS
						51
						54
	35		SM. GREEN SILTY FINE SAND, SLIGHTLY MICACEOUS			62
						64
						59
	40					61
						62
						60
						58
45.5	45				5	51
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 1/2" ID splitspoon w/140 lb hammer falling 30"

DRILLING LOG		DIVISION	INSTALLATION	Hole No.		
1. PROJECT		South Atlantic	Savannah	CS-8		
2. LOCATION (Coordinates or Station)		Opposite Sta. 99+330	134 JD Split Spore	SHEET 1 OF 2 SHEETS		
3. AGENCY		Approx. 140' from water's edge	MLW	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		
4. HOLE NO. (As shown on drawing title and file number)		CS-8	214 Failing	12. MANUFACTURER'S DESIGNATION OF DRILL		
5. NAME OF DRILLER				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		
6. DIRECTION OF HOLE				14. TOTAL NUMBER CORE BOXES		
☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER BORING IN PILE		
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		
8. DEPTH DRILLED INTO ROCK				STARTED 30 April 73 COMPLETED 1 May 73		
9. TOTAL DEPTH OF HOLE		15.0'		17. ELEVATION TOP OF HOLE		
				18. TOTAL CORE RECOVERY FOR BORING		
				19. SIGNATURE OF INSPECTOR		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
	0					
	5					
	10					
	15		Water			
	20					
	25					
	30		Depth at MLW 30.0'			

DRILLING LOG

DIVISION

South Atlantic

INSTALLATION

Marine

ET 2

OF 2 SHEETS

1. PROJECT

Kings Island Training Basin

2. LOCATION (Coordinates or Station)

See Plans

3. DRILLING AGENCY

Savannah District

4. HOLE NO. (As shown on drawing and file number)

CS-8

5. NAME OF DRILLER

MEDONALD

6. DIRECTION OF HOLE

☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.

7. THICKNESS OF OVERBURDEN

8. DEPTH DRILLED INTO ROCK

9. TOTAL DEPTH OF HOLE 45.0'

10. SIZE AND TYPE OF BIT

1 3/4" ID Split Spoon

11. DATUM FOR ELEVATION SHOWN (TBM or MSL)

N.W.

12. MANUFACTURER'S DESIGNATION OF DRILL

EIA Feline

13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN

DISTURBED

4

UNDISTURBED

14. TOTAL NUMBER CORE BOXES

0

15. ELEVATION GROUND WATER Boring In River

16. DATE HOLE

STARTED

30 Apr. 1972

COMPLETED

1 May 73

17. ELEVATION TOP OF HOLE

18. TOTAL CORE RECOVERY FOR BORING

19. SIGNATURE OF INSPECTOR

Edward J. McLeod

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
30'			SM-Gray silty sand with layers dark gray OH		1	NX casing set at 33.4', advanced to 37.9'
35'			SP-Gray poorly graded sand		2	
40'			SM-Green silty fine sand micaceous slight plasticity while wet		3	
45'			Soils field classified in accordance with the Unified Soil Classification System.		4	
						BLOWS PER FOOT: Number required to drive 1 3/4" ID splitspoon w/140 lb hammer falling 30"

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
1. PROJECT		South Atlantic		Savannah River		1 OF 2 SHEETS	
2. LOCATION (Coordinates or Station)		King Island Turning Basin		10. SIZE AND TYPE OF BIT		1 3/8" ID Split Spoon	
3. APPROX. 25' FROM WATERS EDGE		OPPOSITE SB. 99400		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		MLW	
4. HOLE NO. (As shown on drawing title and title number)		CS-9		12. MANUFACTURER'S DESIGNATION OF DRILL		31 Fulmer	
5. NAME OF DRILLER		McDonald		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6 UNDISTURBED	
6. DIRECTION OF HOLE		☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES		0	
7. THICKNESS OF OVERBURDEN				15. ELEVATION-GROUND WATER		Boring In River	
8. DEPTH DRILLED INTO ROCK				16. DATE HOLE		STARTED 2 May 73 COMPLETED 2 May 73	
9. TOTAL DEPTH OF HOLE 25.4'				17. ELEVATION TOP OF HOLE			
				18. TOTAL CORE RECOVERY FOR BORING		2	
				19. SIGNATURE OF INSPECTOR		Edward M. ...	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
0'	0'					
5'	5'					
10'	10'		Water			
15'	15'					
20'	20'		Water depth 20.2' MLW			
25'	25'		MH-Green elastic silt			
30'	30'		SP- Gray poorly graded sand			
						NX casing set at 25.4'
						Advanced NX casing to 29.9'

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah River	SHEET 2 OF 2 SHEETS
1. PROJECT Kings Island Training Basin		10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon		
2. LOCATION (Coordinates or Station) D137		11. DATUM FOR ELEVATION SHOWN (FSM or MSL) MLW		
3. NG AGENCY NORCATH District		12. MANUFACTURER'S DESIGNATION OF DRILL 314 E Line		
4. HOLE NO. (As shown on drawing and file number) CS-9		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 6		
5. NAME OF DRILLER McDonald		14. TOTAL NUMBER CORE BOXES 0		
6. DIRECTION OF HOLE ☒ VERTICAL. ☐ INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER BORING In River		
7. THICKNESS OF OVERBURDEN		16. DATE HOLE STARTED 2 May 73 COMPLETED 2 May 73		
8. DEPTH DRILLED INTO ROCK		17. ELEVATION TOP OF HOLE		
9. TOTAL DEPTH OF HOLE 45.4'		18. TOTAL CORE RECOVERY FOR BORING		
		19. SIGNATURE OF INSPECTOR Shirley Mitchell		

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
30.6'	35'		SM - Gray silty fine sand micaceous 30.4-34.9'		3	Advanced AX casing to 35.7'
			Gray silty fine & medium sand 34.9'-37.9'		4	
	40'		37.9' Green silty fine sand micaceous		5	
			37.9' - 45.4'		6	
	45'		Soils field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Hammer required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 50".

DRILLING LOG		DIVISION		INSTALLATION	
PROJECT		South Atlantic		Savannah River	
LOCATION (Coordinates or Station)		Kings Island Turning Basin		SHEET 1 OF 2 SHEETS	
APPROX. 270' FROM WATERS EDGE		OPPOSITE STA. 1001500		10. SIZE AND TYPE OF BIT 1 3/8" ID Split 3000	
TILLING AGENCY		Savannah District		11. DATUM FOR ELEVATION SHOWN (TBM = MSL)	
HOLE NO. (As shown on drawing title and file number)		CS-10		M.L.W.	
NAME OF DRILLER		McDonald		12. MANUFACTURER'S DESIGNATION OF DRILL	
DIRECTION OF HOLE		VERTICAL ☒ INCLINED ☐ DEG. FROM VERT.		314 Feeding	
THICKNESS OF OVERBURDEN		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 7 UNDISTURBED	
DEPTH DRILLED INTO ROCK		14. TOTAL NUMBER CORE BOXES		0	
TOTAL DEPTH OF HOLE 45.7'		15. ELEVATION GROUND WATER		Boring In River	
		16. DATE HOLE		STARTED 3 May 73 COMPLETED 7 May 73	
		17. ELEVATION TOP OF HOLE			
		18. TOTAL CORE RECOVERY FOR BORING			
		19. SIGNATURE OF INSPECTOR		Edward MacLan	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
0'	0'				1	
5'	5'		Water		Jan	
10'	10'		Water - depth 11.9' MLW			
15'	15'		MH - Green elastic silt			
20'	20'		SM - Gray silty fine & medium sand			
25'	25'		micaceous w/occasional small gravel 13.4' - 17.9'			
30'	30'		17.9' - 45.7' Gray & Green silty fine sand micaceous			

DRILLING LOG Division <u>South Atlantic</u>		INSTALLATION <u>Savannah River</u>		HOLE NO. <u>CS-10</u> SHEET <u>2</u> OF 2 SHEETS	
1. PROJECT <u>Kings Island Turning Basin</u>		10. SIZE AND TYPE OF BIT <u>1 3/8" ID Split</u>		11. DATUM FOR ELEVATION SHOWN (TUM or MSL) <u>MLW</u>	
2. LOCATION (Coordinates or Station) <u>See Plan</u>		12. MANUFACTURER'S DESIGNATION OF DRILL <u>314 Failing</u>		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED <u>7</u> UNDISTURBED <u>0</u>	
3. DRILLING AGENCY <u>Savannah District</u>		14. TOTAL NUMBER CORE BOXES <u>0</u>		15. ELEVATION GROUNDWATER BORING IN "RIVE" <u>7 May 73</u>	
4. HOLE NO. (As shown on draw 18 title and file number) <u>CS-10</u>		16. DATE HOLE <u>3 May 73</u>		17. ELEVATION TOP OF HOLE <u>7 May 73</u>	
5. NAME OF DRILLER <u>McDonald</u>		18. TOTAL CORE RECOVERY FOR BORING <u>45.7'</u>		19. SIGNATURE OF INSPECTOR <u>Edward McIsaac</u>	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.					
7. THICKNESS OF OVERBURDEN					
8. DEPTH DRILLED INTO ROCK					
9. TOTAL DEPTH OF HOLE					

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
30'						B/SWIS
						58
						59
	35'					56
			SM- Gray & Green			57
			silty fine sand			59
			MICACEOUS			I
	40'					ONLY
						100%
						90-
	45'					80
			Soils field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 1/2" ID splitspoon w/140 lb hammer falling 30".

HOLE NO. V-90A

DRILLING LOG		South Atlantic		Savannah, Ga.		SHEETS OF 1	
1. PROJECT Widening & Deepening Savannah Harbor				10. SIZE AND TYPE OF BIT 3-1/2" ID Sampler			
2. LOCATION (Coordinates or Station) Sta. 94B, N. Side				11. DIRM FOR ELEVATION SHOWN (FOR DRILLING) MLW			
3. DRILLING AGENCY Alpine Geophysical Asso.				12. MANUFACTURER'S DESIGNATION OF DRILL Alpine 20' Vibratory Sampler			
4. HOLE NO. (As shown on drawing title and file number) V-90A				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISBURSED 1 UNDISBURSED 0	
5. NAME OF DRILLER Al Stockel				14. TOTAL NUMBER CORE BOXES 1 Plastic Tube			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER Tide Gage 6.3			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED 5-24-67 COMPLETED 5-24-67	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -36.7			
9. TOTAL DEPTH OF HOLE 7.5'				18. TOTAL CORE RECOVERY FOR BORING 71 %			
				19. SIGNATURE OF INSPECTOR J. A. Albritton			

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)
-35.0						
			No Sample			Time Sec./Ft.
-40.0			SM-Green, micaceous, fine, silty sand.	71	V-90A	Zone-of-Core-Loss 0.5 -36.7 to -38.9 0.5
			ML-Green, dense, sandy silt, toward a compaction shale	grading below	-43.0'	1.0 1.0 3.0 2.0 310/0.5 108.
			BOTTOM OF HOLE -44.2'			
			Soils field classified in accordance with the Unified Soil Classification System.			

ONLY
 FIELD
 USE
 ONLY

DRILLING LOG		VISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 5/2" fishtail			
2. LOCATION (Coordinates or Station) X-816990 Y-780189 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSU) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL FALLING 314			
4. HOLE NO. (As shown on drawing title and file number) SH-155				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 6		DISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0		UNDISTURBED 0	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 59.0' (Water 41.6')				16. DATE HOLE 15 NOV 91		STARTED 15 NOV 91	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'		COMPLETED 15 NOV 91	
9. TOTAL DEPTH OF HOLE 59.0'				18. TOTAL CORE RECOVERY FOR BORING N/A		%	
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0	0				JAR	BLOWS	
	40		Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 42.3'.	
-41.6'			Bottom of Harbor 41.6'				
			(SM) Grey, fine, silty SAND, trace of mica.		1	Weight of hammer drove splitspoon to 42.3'.	
			(SC) Greenish-grey, fine clayey SAND.		2	Jar 1 from 41.6' to approx. 42.0'.	
-44.6'	45		Trace of mica.			21	
			Trace of fine to coarse gravel.		3	42	
-47.6'						22	
	50		No gravel.		4	35	
					5	41	
	55				6	26	
			(SM) Grey, fine silty SAND. Trace of mica.			43	
-59.0'	60		Bottom of Boring 59.0'			51	
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			47	
						86	
						100/0.6	
						100/0.4	
						BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		LOCATION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 5 1/2" fishtail			
2. LOCATION (Coordinates or Station) X-816798 Y-779692 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-156				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6 UNDISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A		16. DATE HOLE STARTED 15 DEC 91 COMPLETED 15 DEC 91	
7. THICKNESS OF OVERBURDEN 59.6' (Water 41.7')				17. ELEVATION TOP OF HOLE 0.0'			
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 JAMES ARTHUR, P.G.			
ELEVATION 0.0	DEPTH 0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f UAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g BLOWS	
			Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 42.3'.	
-41.7'	40		Bottom of Harbor 41.7'				
-43.2'			(SM) Grey, fine silty SAND. Trace of mica.		1	45	
-44.7'	45		(SC) Grey, fine clayey SAND. Trace of silt & mica.		2	38	
			Occasional layer of fine silty sand up to 0.3' thick.			62	
-49.2'	50		No silty sand layers.		3	43	
						61	
	55				4	35	
						37	
					5	43	
						56	
-58.2'			Some silt.			64	
-59.6'	60				6	56	
			Bottom of Boring 59.6'			100/0.9'	
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		VISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 5/2" fishtail			
2. LOCATION (Coordinates or Station) X-817067 Y-779191 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL FALLING 314			
4. HOLE NO. (As shown on drawing title and file number) SH-157				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5 UNDISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 59.6' (Water 38.6')				16. DATE HOLE		STARTED 10 DEC 91 COMPLETED 10 DEC 91	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 59.6'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0	0					BLOWS	
	35		Water			Scaler change at 35.0'. Set 6" diameter casing by own weight to 43.0'.	
-38.6'	40		(SP) Tan, poorly graded, coarse SAND.		1	Weight of rods drove splitspoon to 40.1'. Had no recovery. redrove to 40.1' then cont'd. drive to 41.6'. Sample 1 from 38.6' to 41.6'.	
-41.6'			Some fine gravel.				
-44.6'	45		(CL) Grey, silty, lean CLAY. Some fine sand, trace of mica.		2		
	50				3		
	55				4		
-58.1'			(SC) Grey, fine clayey SAND. Some silt, trace of mica.		5		
-59.6'	60		Bottom of Boring 59.6'			BLOWS PER FOOT: Number required to drive 1 1/2" I.D. splitspoon w/140 lb. hammer falling 30".	
NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.							

DRILLING LOG		South Atlantic		Savannah, Ga.		SHEET OF 1 SHEETS	
1. PROJECT Widening & Deepening Savannah Harbor				10. SIZE AND TYPE OF BIT 3-1/2" ID Sampler			
2. LOCATION (Coordinates or Station) Sta. 94B, N. Side				11. DATUM FOR ELEVATION SHOWN (FOR BACKSIGHT) MLW			
3. DRILLING AGENCY Alpine Geophysical Asso.				12. MANUFACTURER'S DESIGNATION OF DRILL Alpine 20' Vibratory Sampler			
4. HOLE NO. (As shown on drawing title and file number) V-90A				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISBURSED 1 UNDISBURSED 0	
5. NAME OF DRILLER Al Stockel				14. TOTAL NUMBER CORE BORES 1 Plastic Tube			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER Tide Gage 6.3			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 5-24-67 COMPLETED 5-24-67			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -36.7			
9. TOTAL DEPTH OF HOLE 7.5'				18. TOTAL CORE RECOVERY FOR BORING 71 %			
				19. SIGNATURE OF INSPECTOR J. A. Albritton			

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)
-35.0						Time Sec./Ft.
			No Sample			Zone-of-Core-Loss 0.5
-40.0			SM-Green, micaceous, fine, silty sand.	71	V-90A	-36.7 to -38.9 0.5
			ML-Green, dense, sandy silt, toward a compaction shale	grading below	-43.0'	1.0
			BOTTOM OF HOLE -44.2'			1.0
			Soils field classified in accordance with the Unified Soil Classification System.			310/0.5

ONLY

SAVANNAH HARBOR BORING LOGS

From Station 79+000

To

Station 97+750

Hole No. SH-23

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah, GA	SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor			10. SIZE AND TYPE OF BIT 1 3/8" ID Splitspoon		
2. LOCATION (Coordinates or Station) See Plan Sta 96+500, E of CL, Range 38			11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW		
3. DRILLING AGENCY Savannah District			12. MANUFACTURER'S DESIGNATION OF DRILL CME 75		
4. HOLE NO. (As shown on drawing title and file number) SH-23			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES
5. NAME OF DRILLER T. W. Scott			DISTURBED 5		UNDISTURBED 0
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER		16. DATE HOLE
7. THICKNESS OF OVERBURDEN 56.0'			17. ELEVATION TOP OF HOLE 0.0 MLW		STARTED 26 Nov 77
8. DEPTH DRILLED INTO ROCK 0.0'			18. TOTAL CORE RECOVERY FOR BORING		COMPLETED 26 Nov 77
9. TOTAL DEPTH OF HOLE -56.0' MLW			19. SIGNATURE OF INSPECTOR CHARLES D. GRIFFIN		

ELEVATION 0.0 a	DEPTH 0' b	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
	5'		Water			
	10'					
	15'					
	20'					
	25'					
-30.0	30'					
			Continued on sheet 2			
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.	B-50		BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/ 140 lb hammer falling 30"

DRILLING LOG (Cont Sheet)

LOCATION TOP OF HOLE 0.0 MLW Hole No. SH-23

PROJECT Savannah Harbor INSTALLATION Savannah, GA SHEET 2 OF 2 SHEETS

ELEVATION a	DEPTH b	LOG c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) f	Blows
-30.5	30'		Bottom of River -30.5'		1		6
			SP - Tan poorly graded sand				12
	35'				2		14
			Tan and gray				21
							32
-41.0	40'						40
							58
					3		71
			MH - Dark green hard clayey silt interbedded with fine sand				79
	45'						83
							94
					4		100/0
	50'						91
							93
							96
							100
-56.0	55'				5		98
			Bottom of hole -56.0' MLW				

Hole No. SH-23

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah, GA	SHEET 1 OF 2 SHEETS
1. PROJECT Savannah Harbor		10. SIZE AND TYPE OF BIT 1 3/8" ID Splitspoon		
2. LOCATION (Coordinates or Station) See Plan Sta 96+500, E of CL, Range 38		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW		
3. DRILLING AGENCY Savannah District		12. MANUFACTURER'S DESIGNATION OF DRILL CME 75		
4. HOLE NO. (As shown on drawing title and file number) SH-23		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5
5. NAME OF DRILLER T. W. Scott		14. TOTAL NUMBER CORE BOXES		UNDISTURBED 0
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER		
7. THICKNESS OF OVERBURDEN 56.0'		16. DATE HOLE STARTED 26 Nov 77 COMPLETED 26 Nov 77		
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0 MLW		
9. TOTAL DEPTH OF HOLE -56.0' MLW		18. TOTAL CORE RECOVERY FOR BORING %		
19. SIGNATURE OF INSPECTOR CHARLES D. GRIFFIN				

ELEVATION 0.0 a	DEPTH 0' b	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
	5'		Water			
	10'					
	15'					
	20'					
	25'					
-30.0	30'					
			Continued on sheet 2			
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/ 140 lb hammer falling 30"

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah, GA		SHEET 1. OF 2 SHEETS	
1. PROJECT Savannah Harbor			10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon			
2. LOCATION (Coordinates or Station) See Plan Sta 95+500E. R="38"			11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District			12. MANUFACTURER'S DESIGNATION OF DRILL CME 75			
4. HOLE NO. (As shown on drawing title and file number) SH-24			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5	UNDISTURBED 0
5. NAME OF DRILLER T. W. Scott			14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER		16. DATE HOLE STARTED 25 Nov 77 COMPLETED 25 Nov 77	
7. THICKNESS OF OVERBURDEN 55.5'			17. ELEVATION TOP OF HOLE 0.0 MLW			
8. DEPTH DRILLED INTO ROCK 0.0'			18. TOTAL CORE RECOVERY FOR BORING			
9. TOTAL DEPTH OF HOLE -55.5' MLW			19. SIGNATURE OF INSPECTOR CHARLES D. GRIFFIN			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g

Water

Continued on sheet 2

NOTE: Soils field classified in accordance with the Unified Soil Classification System

Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".

DRILLING LOG (Cont Sheet.)		LOCATION TOP OF HOLE		Hole No. SH-24		
PROJECT		INSTALLATION		SHEET 2		
Savannah Harbor		Savannah, GA		OF 2 SHEETS		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilline time, water loss, depth of weathering, etc., if significant)
a	b	c	d	e	f	g
31.5			Bottom of river -31.5'		JAR	Blows
			SP- Tan poorly graded sand		1	7
	35'		Tan and gray			14
					2	15
						19
	40'		Tan		3	25
-41.0						61
			MH - Dark green hard clayey silt interbedded with some fine sand		4	64
	45'					55
						66
					5	71
						83
	50'					94
						100/0.7
						94
-55.5	55'					97
			Bottom of hole -55.5' MLW			

Hole No. SH-25

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon			
2. LOCATION (Coordinates or Station) See Plan Sta 94+500E, R="37"				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Sprague and Henwood			
4. HOLE NO. (As shown on drawing title and file number) SH-25				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 8	UNDISTURBED 0
5. NAME OF DRILLER Perry Rountree				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN 55.5'				16. DATE HOLE		STARTED 27 Oct 77	COMPLETED 27 Oct 77
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0 MLW			
9. TOTAL DEPTH OF HOLE -55.5' MLW				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR CHARLES D. GRIFFIN			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0 MLW	0' b	c	d	e	f	g	
-1.5			Water Bottom of river -1.5'		JAR	Blows	
	5'		SM - Gray and brown fine and medium silty sand		1	9	
						11	
						11	
			Greenish gray fine silty sand		2	13	
						9	
	10'		With some soft silt layers			7	
						5	
			SM - MH - Gray fine silty sand with layers of soft silt		3	4	
	15'					12	
-16.5						16	
			SP - Tan poorly graded sand		4	21	
						29	
	20'					37	
					5	35	
						32	
	25'					39	
						41	
						50	
						55	
-30.0	30'		Continued on sheet 2			BLOWS PER FOOT:	
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.			Number required to drive 1 3/8" ID splitspoon w/ 140 lb hammer falling 30'	

DRILLING LOG (Cont Sheet)		LOCATION TOP OF HOLE		Hole No.		
PROJECT		INSTALLATION		SHEET		
Savannah Harbor		Savannah, GA		SH-25		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
a	30 b		d	e	JAK	Blows
	35'		SP - Tan poorly graded sand		6	34
						27
						31
						29
						23
	40'					19
						21
	45'					14
						21
-46.5						24
			SM - Dark green fine cemented silty sand		7	28
-51.0	50'					64
			MH - Dark green hard clayey silt interbedded with fine sand and mica		8	73
-55.5	55'					88
						70
			Bottom of hole -55.5' MLW			66

Hole No. SH-26

DRILLING LOG		DIVIS. South Atlantic		INSTALLATION Savannah, GA		SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor				10. SIZE AND TYPE OF BIT: 3/8" ID Splitspoon			
2. LOCATION (Coordinates or Station) See Plan Sta 92+750E, R="36"				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) Sprague and Henwood			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number) SH-26				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6	UNDISTURBED 0
5. NAME OF DRILLER Perry Rountree				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN 55.0'				16. DATE HOLE		STARTED 28 Oct 77	COMPLETED 28 Oct 77
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0 MLW			
9. TOTAL DEPTH OF HOLE -55.0' MLW				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR CHARLES D. GRIFFIN			
ELEVATION 0.0 MLW	DEPTH 0'	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	
	5'		Water				
	10'						
	15'		Bottom of river -14.5'		JAR		Blows
	18'		SM- Gray and brown fine and medium silty sand		1		
	20'		GM - Light gray and tan coarse sand and gravel		2		
	25'				3		
	30'		SP - Light gray poorly graded sand		4		
			Continued on sheet 2				
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.				
							Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/ 140 lb hammer falling 30'

DRILLING LOG (Cont Sheet)

TION TOP OF HOLE

0.0 MLW

Hole No. SH-26

PROJECT

Savannah Harbor

INSTALLATION

Savannah, GA

SHEET 2

OF 2 SHEETS

ELEVATION

DEPTH

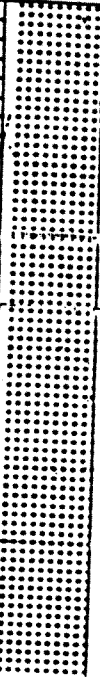
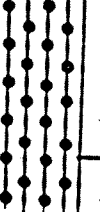
LEGEND

CLASSIFICATION OF MATERIALS
(Description)

% CORE
RECOV-
ERY

BOX OR
SAMPLE
NO.

REMARKS
(Drilling time, water loss, depth of
weathering, etc., if significant)

	30'		SP - Light gray poorly graded sand		JAR 4		28
							25
	35'						31
							29
							34
	40'						38
							33
							35
							40
	45'						38
							35
-47.5							31
	50'		SM - Dark green fine cemented silty sand		5		56
							61
			with hard silt layers, micaceous				69
-53.5							70
-55.0	55'		MH - Dark green hard clayey silt with fine sand lenses micaceous		6		68
			Bottom of hole -55.0' MLW				

Hole No. SH-27

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah, GA		SHEET 1 OF 2 SHEETS
1. PROJECT Savannah Harbor			10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon		
2. LOCATION (Coordinates or Station) See Plan Sta 89+000E, R= "35"			11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW		
3. DRILLING AGENCY Savannah District			12. MANUFACTURER'S DESIGNATION OF DRILL CME 75		
4. HOLE NO. (As shown on drawing title and file number) SH-27			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 4 UNDISTURBED 0
5. NAME OF DRILLER T. W. Scott			14. TOTAL NUMBER CORE BOXES		
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER		
7. THICKNESS OF OVERBURDEN 55.0'			16. DATE HOLE		STARTED 23 Nov 77 COMPLETED 23 Nov 77
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE		0.0 MLW
9. TOTAL DEPTH OF HOLE -55.0' MLW			18. TOTAL CORE RECOVERY FOR BORING %		
			19. SIGNATURE OF INSPECTOR CHARLES D. CRIFFIN		

ELEVATION 0.0 _a	DEPTH 0' _b	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
	5'		Water			
	10'					
	15'					
	20'					
	25'					
-30.0	30'					
			Continued on sheet 2			
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.		BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/ 140 lb hammer falling 30'	

Hole No. SH-28

DRILLING LOG

DIVISION

South Atlantic

INSTALLATION

Savannah, GA

SHEET

OF 2 SHEETS

1. PROJECT

Savannah Harbor

2. LOCATION (Coordinates or Station)

See Plan Sta 88+000E, R="33"

3. DRILLING AGENCY

Savannah District

4. HOLE NO. (As shown on drawing title and file number)

SH-28

5. NAME OF DRILLER

T. W. Scott

6. DIRECTION OF HOLE

☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.

7. THICKNESS OF OVERBURDEN

56.0'

8. DEPTH DRILLED INTO ROCK

0.0'

9. TOTAL DEPTH OF HOLE

-56.0' MLW

10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon

11. DATUM FOR ELEVATION SHOWN (TBM or MSL)

MLW

12. MANUFACTURER'S DESIGNATION OF DRILL

CME 75

13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN

DISTURBED

4

UNDISTURBED

0

14. TOTAL NUMBER CORE BOXES

15. ELEVATION GROUND WATER

16. DATE HOLE

STARTED

22 Nov 77

COMPLETED

22 Nov 77

17. ELEVATION TOP OF HOLE 0.0 MLW

18. TOTAL CORE RECOVERY FOR BORING

19. SIGNATURE OF INSPECTOR

CHARLES D. GRIFFIN

ELEVATION

DEPTH

LEGEND

CLASSIFICATION OF MATERIALS
(Description)% CORE
RECOV-
ERYBOX OR
SAMPLE
NO.REMARKS
(Drilling time, water loss, depth of
weathering, etc., if significant)

0.0 MLW

06

c

d

e

f

g

5'

Water

10'

15'

20'

25'

-30.0

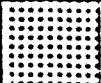
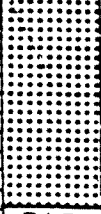
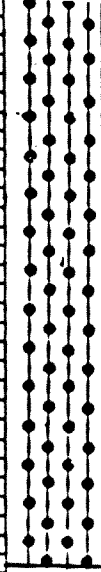
30'

Continued on sheet 2

NOTE: Soils field classified
in accordance with the Unified
Soil Classification System.

BLOWS PER FOOT:

Number required to drive
1 3/8" ID splitspoon w/
140 lb hammer falling 30'

DRILLING LOG (Cont Sheet)		ATION TOP OF HOLE		0.OMLW		Hole No. SH-28	
PROJECT Savannah Harbor			INSTALLATION Savannah, GA			SHEET 2 OF 2 SHEETS	
ELEVATION a	DEPTH 30 b	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	
-33.5			Water				
			Bottom of river -33.5'		JAR		Blows
	35'		SP-SM - Tan medium & coarse silty & poorly graded sand		1		10
			Tan and greenish gray				11
							19
-41.0	40'				2		25
							24
			SM --Dark green very fine cemented silty sand		3		42
	45'						31
							47
							68
							79
	50				4		88
							91
							100/0.9
-56.0	55'						94
			Bottom of hole -56.0 MLW				91

DRILLING LOG (Cont Sheet)

LOCATION TOP OF HOLE

Hole No. SH-27

PROJECT

INSTALLATION

SHEET 2
OF 2 SHEETS

ELEVATION a	DEPTH b	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
	30'		Water			
-35.5	35'		Bottom of river -35.5'		JAR	Blows
			SP-SM - Tan and gray medium poorly graded and silty sand		1	4
	40'					6
					2	6
						10
-44.0	45'					23
			SM - Dark green very fine cemented silty sand		3	41
						50
	50'					62
					4	58
						60
						71
-55.0	55'		Bottom of hole -55.0' MLW			88
						75

Hole No. SH-29

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		SHEET 1 OF 3 SHEETS	
1. PROJECT Savannah Harbor				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon			
2. LOCATION (Coordinates or Station) See Plan Sta 87+000E, R="33"				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Sprague and Henwood			
4. HOLE NO. (As shown on drawing title and file number) SH-29				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 8		DISTURBED 0	
5. NAME OF DRILLER Perry Rountree				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN 56.0'				16. DATE HOLE 29 Oct 77			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE -0.6 MLW			
9. TOTAL DEPTH OF HOLE -56.0' MLW				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR CHARLES D. GRIFFIN			
ELEVATION 0.0 MLW	DEPTH 0'	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	
	5'		Water				
-11.0	10'		Bottom of river -11.0'		JAR		Blows
	15'		SP - Tan poorly graded sand		1		13
							18
	20'		Tan and gray		2		25
							31
	25'						38
					3		58
	30'						84
							51
					4		42
							29
							30
30.0							39
Continued on sheet 2							
NOTE: Soils field classified in accordance with the Unified Soil Classification System.				BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/ 140 lb hammer falling 30'			

DRILLING LOG (Cont Sheet)

ATION TOP OF HOLE

0.0 MLW

Hole No.

SH-29

PROJECT

Savannah Harbor

INSTALLATION

Savannah, GA

SHEET 2

OF 2 SHEETS

ELEVATION
a

DEPTH
30b

LEGEND

CLASSIFICATION OF MATERIALS
(Description)
c

% CORE
RECOV.
ERY
e

BOX OR
SAMPLE
NO.
JAR

REMARKS
(Drilling time, water loss, depth of
weathering, etc., if significant)
f

BLOWS

			SP - Tan and gray poorly graded sand		5		36
							41
							48
							44
							39
							35
							33
			With some gravel				38
							40
							48
			Tan poorly graded sand		6		34
							31
							29
-48.5							
			MH - Dark green hard clayey silt		7		77
							84
							90
-56.0					8		88
			Bottom of hole -56.0' MLW				

DRILLING LOG		DIVISIO. South Atlantic		INSTALLATION Savannah, GA		SHEET OF 1 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID Splitspoon			
2. LOCATION (Coordinates or Station) X-830665, Y-761539				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Sprague and Henwood			
4. HOLE NO. (As shown on drawing title and file number) SH-67				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 3 UNDISTURBED 0	
5. NAME OF DRILLER T. Scott				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 4 Aug 82 COMPLETED 5 Aug 82			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE 0.0 MLW			
9. TOTAL DEPTH OF HOLE 52.6				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR L. Benjamin			
ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
			Water		JAR	9 Blows	
-41.6'	42		SP-Light green coarse poorly graded sand with some fine sandy silt and trace of mica		1	Note: The splitspoon was stuck in the hole over night. 9	
	44						17
-44.6			Trace of wood chip and no fine sandy silt.		2	65	
	46					90	
-47.6'	48		ML-Green fine sandy silt with no wood chip.		3	8	
	50						9
	52						10
						28	
-52.6'			Bottom of Hole: 52.6'			80	
			Note: Soils field classified in accordance with the Unified Soil Classification System.			Blows Per Foot: Number required to drive 1 3/8 ID splitspoon w/140 lb. hammer falling 30".	

Hole No. SH-68

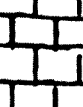
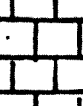
DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		SHEET 1 OF 6 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 5" Spoon, 4 1/2" Fishtail			
2. LOCATION (Coordinates or Station) X-830676, Y-761520				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Sprague & Henwood			
4. HOLE NO. (As shown on drawing title and file number) SH-68				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 2 JARS	
5. NAME OF DRILLER T.W. Scott				14. TOTAL NUMBER CORE BOXES		10	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED 29 Jul 82	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE		0.0 MLW	
9. TOTAL DEPTH OF HOLE 132.9				18. TOTAL CORE RECOVERY FOR BORING		87.1 %	
				19. SIGNATURE OF INSPECTOR T.W. Scott, J. Arthur, L. 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)	
0.0	0		Water			Change scale at 50.0' Blows	
-41.5	50		See Remarks		JAR	Note: Weight of hammer and rods drove spoon from 41.5' to 51.0'	
-51.0			SM-Fine to coarse		1		
-52.5			MH-Green		2	Note: Change of scale at 55.0'.	
-55.5	55		ML-MH-Green, soft with some fine sand, "marl-like material"			Pull 1 55.5' to 57.5' Run 2.0' Rec 2.0'	
	57						
	59				Box 1	Pull 2 57.5' to 60.0' Run 2.5' Rec 2.5' Note: Drove spoon from 60.0' to 60.4'.	
	61					Pull 3 60.0' to 61.5' Run 1.5' Rec 1.5'	
	63				Box 2	Pull 4 61.5' to 64.0' Run 2.5' Rec 2.5'	
-64.0			Continued on Sheet # 2 Note: Soils field classified in accordance with the Unified Soil Classification System.			Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling.	

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		0.0 MLW		Hole No. SH-68	
PROJECT			INSTALLATION			SHEET 2	
Savannah Harbor Widening			Savannah, GA			OF 6 SHEETS	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
-64.0	64h	c	d	e	f	g	
			(Continued)			Pull 5 64.0' to 65.5' Run 1.5' Rec 1.5'	
	66		ML-MH-Green, soft with some fine sand, "marl-like material"			Pull 6 65.5' to 69.0' Run 3.5' Rec 3.5'	
	68						
	70						
	72						
	74				Box 3	Pull 7 69.0' to 72.5' Run 3.5' Rec 3.3' C.L. 0.2'	
-74.2						Pull 8 72.5' to 75.5' Run 3.0' Rec 0.0' C.L. 3.0'	
	76					Pull 9 75.7' to 78.5' Run 3.0' Rec 4.3'	
	78						
	80					Pull 10 78.5' to 84.2' Run 5.7' Rec 3.8' C.L. 1.9'	
-80.0			Continued on Sheet #3				

DRILLING LOG (Cont Sheet)			ELEVATION TOP OF HOLE		Hole No.	
PROJECT			0.0 MLW		SH-68	
Savannah Harbor Widening			INSTALLATION		SHEET 3	
			Savannah, GA		OF 6 SHEETS	
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)
-80.0	80 _b	c	d	e	f	g
			(Continued)			Pull 10 (Continued)
			ML-MH-Green, soft with trace of fine sand, "marl-like material"			Pull 11 84.2' to 91.3' Run 7.1' Rec 3.6' C.L. 3.5' Taped at 89.8'
					Box 5	Pull 12 91.0' to 94.2' Run 2.9' Rec 0.0' C.L. 2.9' Taped at 92.8'
						Pull 13 94.2' to 95.6' Run 1.4' Rec 1.8' C.G. 0.4' Taped 91.6'
-96.0						Pull 14
			Continued on Sheet # 4			

DRILLING LOG (Cont Sheet)			ELEVATION TOP OF HOLE		0.0 MLW		Hole No. SH-68	
PROJECT Savannah Harbor Widening			INSTALLATION Savannah, GA			SHEET 4 OF 6 SHEETS		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)		
-96.0	96 ^h	c	d	e	f	g		
	98		(Continued) ML-MH-Green, soft with trace of fine sand, "marl-like material."			Pull 14 95.6' to 97.9' Run 2.3' Rec 6.1' C.G. 3.8'		
	100				Box 6	Pull 15 97.9' to 102.6' Run 4.7' Rec 4.7'		
	102							
	104					Pull 16 102.6' to 106.8' Run 4.2' Rec 4.2' Taped at 106.8'		
	106				Box 7			
	108					Pull 17 106.8' to 115.1' Run 8.3' Rec 7.8' C.L. 0.5' Taped at 114.6'		
	110							
-112.0	112		Continued on Sheet # 5					

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No.		
PROJECT Savannah Harbor Widening		0.0 MLW		SH-68		
INSTALLATION Savannah, GA		SHEET 5 OF 6 SHEETS				
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)
-112.0	112	c	d	e	f	g
			(Continued) ML-MH-Green, soft with trace of fine sand, "marl-like material."			Pull 17 (Continued)
	114				Box 8	
	116					Pull 18 115.1' to 121.7' Run 6.6' Rec 5.4' C.L. 1.2' Taped at 121.4'
	118					
	120					
-121.7	122		SC-Green medium to coarse clayey sand with some fine gravel			Pull 19 121.7' to 128.7' Run 7.0' Rec 4.5' C.L. 2.5' Taped at 127.0'
			ML-MH-Green, soft micaceous			
			SC-Green medium to coarse clayey sand			
	124		ML-MH-Green, soft micaceous		Box 9	
			SC-Green fine to medium clayey sand			
			ML-MH-Green soft micaceous With fine to medium sand, some fine gravel and shell fragments			
	126					
			SM-Grayish green, medium coarse silty sand With some clay, fine gravel, shell fragments			
-128.0	128					
			Continued on Sheet # 6			

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No. SH-68		
PROJECT		INSTALLATION		SHEET 6 OF 6 SHEETS		
Savannah Harbor Widening		Savannah GA				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-128.0	128	c	d	e	f	k
			(Continued) SM-Grayish green medium to coarse silty sand with some clay, fine gravel and shell fragments			Pull 19 (Continued)
	130		Limestone-Light gray with some shells and medium to coarse sand, hard.		Box 9	Pull 20 128.7' to 129.1' Run 0.4' Rec 1.1' C.G. 0.7' Taped at 128.8'
	132				Box 10	Pull 21 129.1' to 131.9' Run 2.8' Rec 1.0' C.L. 1.8' Taped at 128.6'
-132.9			Bottom of Hole: 132.9'			Pull 22 131.9' to 132.9' Run 1.0' Rec 1.0' C.L. 0.0' Taped at 131.4'
						Note: Hole Electric logged on 3 Aug 82

DRILLING LOG		DIVISION		INSTALLATION		Hole No. SH-69	
1. PROJECT Savannah Harbor Widening		South Atlantic		Savannah, GA		SHEET 1 OF 1 SHEETS	
2. LOCATION (Coordinates or Station) X-830688, Y-761519				10. SIZE AND TYPE OF BIT 1 3/8" ID 5" splitspoon			
3. DRILLING AGENCY Savannah District				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
4. HOLE NO. (As shown on drawing title and file number) SH-69				12. MANUFACTURER'S DESIGNATION OF DRILL Sprague Henwood			
5. NAME OF DRILLER T. Scott				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 2	UNDISTURBED 0
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				14. TOTAL NUMBER CORE BOXES			
7. THICKNESS OF OVERBURDEN				15. ELEVATION GROUND WATER			
8. DEPTH DRILLED INTO ROCK				16. DATE HOLE		STARTED 26 Jul 82	COMPLETED 28 Jul 82
9. TOTAL DEPTH OF HOLE 57.0				17. ELEVATION TOP OF HOLE 0.0 MLW			
				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR B. Green & T. Scott			

ELEVATION 0.0a	DEPTH 0b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	5		Water			
	10					
	15					
	20					
-22.0	25		CH-Dark gray, fat clay, with seams of SC		1	Note: Spoon pushed by weight of drill string and hammer
	30					
	35					
-37.0	40		SP-Gray, medium grained, poorly sorted sand, with some silt.		2	
	45		GM		3	
-45.0	50		No Sample		4	
	55					
-57.0	60		Bottom of Hole:-57.0' Note: Soils field classified in accordance with the Unified Soil Classification System.			Note: Switched to 300 lb. hammer and 5 inch spoon at EL.-48.0'. Note: Hole abandoned at EL. -57.0 due to gravel in hole. Blows Per foot: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling.

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon 4"			
2. LOCATION (Coordinates or Station) X-828814, Y-763538				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Sprague & Henwood			
4. HOLE NO. (As shown on drawing title and file number) SH-70				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6	UNDISTURBED 0
5. NAME OF DRILLER T.W. Scott				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN 60.1'				16. DATE HOLE		STARTED 8 Sep 82	COMPLETED 8 Sep 82
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.1'				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR <i>J. Arthur</i> , Geologist			
ELEVATION a	DEPTH 0 b	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	
	20		Water			Note: Top of Hole established at 0.0' MLW.	
	25					Note: Scale changed at 20.0'	
-27.5			Bottom of Harbor 27.5'			Note: Checked water depth using tape with heavy weight.	
	30		MH-Gray fat silt.		JAR	Note: 27.5' to 30.7' weight of rod string drove splitspoon. 30.7'-43.6' weight of rod string plus hammer drove splitspoon.	
	35				1	0	
	40						
-43.6	45		SM-Gray fine to medium silty sand		2	18	
			With layers of gray fat silt			.7	
-47.5'			Continued on Sheet # 2 Note: Soils field classified in accordance with the Unified Soil Classification System			18	
						Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140	

DRILLING LOG		DIVISION		INSTALLATION		Hole No. SH-70	
1. PROJECT Savannah Harbor Widening		South Atlantic		Savannah, GA		SHEET 1 OF 2 SHEETS	
2. LOCATION (Coordinates or Station) X-828814, Y-763538				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon 4"			
3. DRILLING AGENCY Savannah District				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
4. HOLE ID. (as shown on drawing title and file number) SH-70				12. MANUFACTURER'S DESIGNATION OF DRILL Sprague & Henwood			
5. NAME OF DRILLER T.W. Scott				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		DISTURBED () UNDISTURBED ()	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				14. TOTAL NUMBER CORE BOXES			
7. THICKNESS OF OVERBURDEN 60.1'				15. ELEVATION GROUND WATER			
8. DEPTH DRILLED INTO ROCK 0.0'				16. DATE HOLE STARTED 8 Sep 82		COMPLETED 8 Sep 82	
9. TOTAL DEPTH OF HOLE 60.1'				17. ELEVATION TOP OF HOLE 0.0'			
				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR J. Arthur, Geologist			
ELEVATION a	DEPTH b	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		Water			Note: Top of Hole established at 0.0' MLW.	
	20					Note: Scale changed at 20.0'	
	25					Note: Checked water depth using tape with heavy weight.	
-27.5			Bottom of Harbor 27.5'				
	30		MH-Gray fat silt.		JAR	Note: 27.5' to 30.7' weight of rod string drove splitspoon. 30.7'-43.6' weight of rod string plus hammer drove splitspoon.	
	35				1	0	
	40						
-43.6			SM-Gray fine to medium silty sand		2		
	45		With layers of gray fat silt				
-47.5			Continued on Sheet # 2				
			Note: Soils field classified			Blow. Per Foot: Number	

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon 4"			
2. LOCATION (Coordinates or Station) X-828814, Y-763538 (Sta. 82)				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Sprague & Henwood			
4. HOLE NO. (As shown on drawing title and file number) SH-70				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6	UNDISTURBED 0
5. NAME OF DRILLER T.W. Scott				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN 60.1' +				16. DATE HOLE		STARTED 8 Sep 82	COMPLETED 8 Sep 82
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.1'				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR J. Arthur, Geologist			
ELEVATION a	DEPTH 0 b	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	
	20		Water			Note: Top of Hole established at 0.0' MLW.	
	25					Note: Scale changed at 20.0'	
-27.5			Bottom of Harbor 27.5'			Note: Checked water depth using tape with heavy weight.	
	30		MH-Gray fat silt, very soft to 30.7', soft to 43.6'. (See Remarks)		JAR	Note: 27.5' to 30.7' weight of rod string drove splitspoon. 30.7'-43.6' weight of rod string plus hammer drove splitspoon.	
	35				1	0	
	40						
-43.6	45		SM-Gray fine to medium silty sand		2	18	
			With layers of gray fat silt			7	
-47.5'						18	
Continued on Sheet # 2							
Note: Soils field classified in accordance with the Unified Soil Classification System				Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140			

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No.	
PROJECT		INSTALLATION		SHEET	
Savannah Harbor Widening		Savannah, GA		1	
ELEVATION		DEPTH		LEGEND	
a		b		c	
CLASSIFICATION OF MATERIALS		% CORE RECOVERY		BOX OR SAMPLE NO.	
d		e		f	
REMARKS		g		h	
(Drilling time, water loss, depth of weathering, etc., if significant)		i		j	
	47.5				
	50				
	-51.1				
	-52.6				
	55				
	-60.1				
	60				
Bottom of Hole: -60.1'					

Hole No. SH-71

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah, GA		SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor Widening			10. SIZE AND TYPE OF BIT 1 3/8" splitspoon 4"			
2. LOCATION (Coordinates or Station) X-829527, Y-762839			11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District			12. MANUFACTURER'S DESIGNATION OF DRILL Sprague & Henwood			
4. HOLE NO. (As shown on drawing title and file number) SH-71			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 2	UNDISTURBED
5. NAME OF DRILLER T. Scott			14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.			16. DATE HOLE		STARTED 14 Sep 82	COMPLETED 14 Sep 82
7. THICKNESS OF OVERBURDEN 59.7' +			17. ELEVATION TOP OF HOLE 0.0' MLW			
8. DEPTH DRILLED INTO ROCK 0.0'			18. TOTAL CORE RECOVERY FOR BORING 53.8' %			
9. TOTAL DEPTH OF HOLE 59.7'			19. SIGNATURE OF INSPECTOR J. Arthur, Geologist			

ELEVATION ft	DEPTH ft	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
	25		Water			Note: Scale change at 25.0' taped water depth to -27.3' MLW.
-27.3			Bottom of Harbor 27.3'			
	30		See Remarks			Note: Set casing to 44.4' and washed hole to 44.8'.
	35					
	40					
-44.8	45		SM-Green fine silty sand with some mica		JAR	Blows
			With trace of fine gravel		1	31
			With less silt, well compact			25
-50.0	50		Continued on Sheet # 2			23
			Note: Soils field classified in accordance with the Unified Soil Classification System.			100/0.5
						Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140 hammer falling.

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No. SH-71		
PROJECT		INSTALLATION		SHEET 2 OF 2 SHEETS		
Savannah Harbor Widening		Savannah, GA				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
50.0	50	c	d	e	JAR	k Blows
			(Continued) SM-Green fine silty sand with trace of fine gravel, well compacted			Note: Scale changed at 50.0'.
			With no gravel		2	100/0.6
	52		No Recovery	27%		Pull 1 51.9' to 54.1' Run 2.2' Rec 0.6' C.L. 1.6'
	54		SM-Green fine silty sand with some mica and sand lense well compact and partially indurated.	64%	Box 1	Pull 2 54.1' to 59.7' Run 5.6' Rec 3.6' C.L. 2.0'
	56		No Recovery			
	58		SM-Green fine silty sand with some mica, well compact and partially indurated			
59.7	60		Bottom of Hole: 59.7'			

Hole No. SH-72

DRILLING LOG		DIVISIC South Atlantic		INSTALLATION Savannah, GA		SHEET 1 OF 1 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon, 4"			
2. LOCATION (Coordinates or Station) See Plan X-830206, Y-762075				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) Fishtail MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Sprague & Henwood			
4. HOLE NO. (As shown on drawing title and file number) SH-72				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 0 UNDISTURBED 0	
5. NAME OF DRILLER T. Scott				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN 40.2' +				16. DATE HOLE		STARTED 15 Sep 82 COMPLETED 15 Sep 82	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0 MLW			
9. TOTAL DEPTH OF HOLE 40.2'				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR J. Arthur, Geologist			
ELEVATION 0.0	DEPTH 0.0	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	
			Water			Note: Change of scale at 25.0' Taped water depth to -27.9' MLW.	
-29.9			Bottom of Harbor 27.9'				
			(See Remarks)			Note: Set casing and washed hole to 34.2'. Hole caved in, casing reset several times with final depth at 36.8'. Water return was slightly brown with fine, sand and mica.	
-34.2			No Recovery			Blows 19 26 56 36	
-40.2			Bottom of Hole: 40.2'			Note: For more information, see boring SH-72A	
			Note: Soils field classified in accordance with the Unified Soil Classification System.			Blows Per Foot: Number required to drive 1 3/8" splitspoon w/140 hammer falling.	

DRILLING LOG		DIVISION		INSTALLATION		Hole No. SH-72A	
1. PROJECT Savannah Harbor Widening		South Atlantic		Savannah, GA		SHEET 1 OF 1 SHEETS	
2. LOCATION (Coordinates or Station) See Plans X-830206, Y-762075		10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon, 4"		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW		Fishtail	
3. DRILLING AGENCY Savannah District		12. MANUFACTURER'S DESIGNATION OF DRILL Sprague & Henwood		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 4 UNDISTURBED 0	
4. HOLE ID. (As shown on drawing title and file number) SH-72A		14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUND WATER			
5. NAME OF DRILLER D. Laroche		16. DATE HOLE 22 Sep 82		STARTED 21 Sep 82		COMPLETED	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		17. ELEVATION TOP OF HOLE 0.0' MLW		18. TOTAL CORE RECOVERY FOR BORING %			
7. THICKNESS OF OVERBURDEN 40.1'		19. SIGNATURE OF INSPECTOR J. Arthur, Geologist					
8. DEPTH DRILLED INTO ROCK 0.0'							
9. TOTAL DEPTH OF HOLE 40.1'							
ELEVATION MLW	DEPTH 0'	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
-26.3'	25		Water Bottom of Harbor 26.3'			Note: Scale changed at 25.0'. Water depth taped from 0.0' MLW Blows	
-30.4'	30		SM-Grayish brown medium to coarse silty sand		1	Note: Weight of tool string drove split-spoon from 26.3' to 27.4'. Continued to drive 28.9'. 30.4'-31.1' inadvertently washed out hole,	
-31.1'			See Remarks			10	
			SM-Grayish brown fine to medium silty sand		2	17	
-35.6'	35		No Recovery (See Remarks)		3	10	
-37.1'			No Recovery			18	
-38.6'			GP-Light gray fine to coarse poorly graded gravel with some medium to coarse sand and silt		4	20	
-40.1'	40		Bottom of Hole: 40.1'			18	
			Note: Soils field classified in accordance with the Unified Soil Classification System.			100/0.7'	
						100/0.9'	
						contained some organics (leaves, bark, grass, etc.) Set casing to 34.9', had difficulty keeping hole clear of sand. Terminated hole at 40.1' due to excessive time needed to clean hole.	
						Blows Per Foot: Number required to drive 1 3/8" ID split-spoon w/140 lb. hammer falling 30"	

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, Ga		SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon, 4"			
2. LOCATION (Coordinates of Station) See Plans X-830886, Y-761328				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW Fishtail, 4x5 1/2" BBL			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Sprague & Henwood			
4. HOLE NO. (As shown on drawing title and file number) SH-73				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 4	UNDISTURBED
5. NAME OF DRILLER T. Scott				14. TOTAL NUMBER CORE BOXES 1			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN 60.2' +				16. DATE HOLE		STARTED 16 Sep 82	COMPLETED 16 Sep 82
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLW			
9. TOTAL DEPTH OF HOLE 60.2'				18. TOTAL CORE RECOVERY FOR BORING 76 %			
				19. SIGNATURE OF INSPECTOR J. Arthur, Geologist			
ELEVATION 0.0a	DEPTH 0 b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	25		Water			Note: Scale change at 25.0'. Taped water depth to -29.9' MLW.	
-29.9	30		Bottom of Harbor 29.9'				
			(See Remarks)			Note: Set casing to 42.2' and washed hole to 43.1'.	
	35					Note: Had difficulty with sand getting inside of casing after cleaning	
	40						
	45		SP-Grayish green fine to medium poorly graded sand		JAR	Blows	
			No Recovery		1	32	
			SP-White medium to coarse poorly graded sand			30	
	48		SM-Green fine silty sand with some mica and fine gravel		2	42	
	49		(See Remarks)		3	100/0.5'	
	50		SM-Same as from 47.6' to 48.6'			Note: Reset casing and washed hole from 48.6' to 50.8' 100/0.3' and 51.6' to 52.8'.	
-52.5			(See Remarks)		4		
			Continued on Sheet # 2			Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".	
			Note: Soils field classified in accordance with the Unified Soil Classification Systems.				

DRILLING LOG (Cont Sheet)

ELEVATION TOP OF HOLE

0.0' MLW

Hole No. SH-73

PROJECT

Savannah Harbor Widening

INSTALLATION

Savannah, GA

SHEET
OF 2 SHEETS

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)
-52.5	b	c	d	e	f	g
-52.8			Continued (See Remarks)			
-54.6	55		No Recovery			
			SM-Green fine silty sand with some sand lenses and mica, partially indurated.			Note: Began coring at 52.8' Pull 1 52.8' to 60.2' Run 7.4' Rec 5.6' C.L. 1.8' (Probably from 52.8' to 54.6')
-60.2	60		Bottom of Hole; 60.2'			

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		Hole No. SH-82 SHEET 1 OF 1 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 3/8" ID splitspoon 5" fishtail			
2. LOCATION (Coordinates or Station) X-821690, Y-771180				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-82				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 9	UNDISTURBED 0
5. NAME OF DRILLER T.W. Scott				14. TO: NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN 49.6'				16. DATE HOLE STARTED 9 Sep 83 COMPLETED 10 Sep 83			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 49.6'				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR James Arthur, Geologist			

ELEVATION 0.0'	DEPTH 0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Sea Water 0.0'-22.8'		JAR	Blows
	22		Bottom of Harbor: 22.8'			Note: Change of scale at 22.0'
-22.8			SP-tan fine to medium poorly graded sand with trace of silt		1	Note: Set 6" casing to 27.4'. Reset casing to 33.0', 37.9' and 40.1'.
-24.3			Medium to coarse grained with trace of fine gravel			
-25.8	27		Fine to medium grained with no gravel			
-28.8			Gray, medium to coarse grained.		2	SAMPLE LAB
-31.8	32		Coarse grained, no silt			No. Class LL PL PI
-33.3			Trace of fine gravel, layer of blue fat clay from 34.5' to 34.8'		3	2 SP NP NP NP 19
-34.8			Coarse grained with trace of silt, fine gravel and layer of fat clay from 35.8' to 36.0'			4 SP NP NP NP
-37.8	37		Medium to coarse grained		4	8 SM - - - 48
-42.3	42		Coarse grained with trace of fine gravel, thin layer of clayey sand from 43.2'-43.5'			
-43.8			With 15% fine gravel		5	
-46.8	47	SM-Green fine silty sand with trace of mica and fine gravel.				
-49.6			Bottom of Hole: 49.6'		6	
			Note: Soils field classified in accordance with the Unified Soil Classification System.		7	
					8	Note: 47.9'-48.3' cleaned out hole with 100/0.6
					9	fishtail. 100/0.8
						Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah, GA.		Hole No. SH-83
1. PROJECT Savannah Harbor Widening		10. SIZE AND TYPE OF BIT 1-3/8" ID splitspoon, 5"		SHEET 1 OF 1 SHEETS	
2. LOCATION (Coordinates or Station) X-820005, Y-773530		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) fishtail			
3. DRILLING AGENCY Savannah District		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on casing title and file number) SH-83		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 8	UNDISTURBED 0
5. NAME OF DRILLER T.W. Scott		14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL, ☐ INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN 45.8'		16. DATE HOLE		STARTED 10 Sep 83	COMPLETED 11 Sep 83
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 45.8'		18. TOTAL CORE RECOVERY FOR BORING			
		19. SIGNATURE OF INSPECTOR James Arthur, Geologist			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
0.0'	0'				JAR	Blows
-17.3	17'		Sea Water 0.0'-17.3'			Note change of scale at 17.0'
			Bottom of Harbor: 17.3'			
-20.3	22'		SP-Gray medium to coarse poorly graded sand with trace of fine gravel	1		Note: Set 6" casing to 17.3'. Weight of rods with hammer drove split-spoon from 17.3' to 18.3'. Continued drive to 18.8'. Reset casing to 24.2', 34.0' 35.8' and 36.8'.
-23.3			Tannish gray with trace of silt	2		
-24.3	27'		SM-Tannish gray fine to medium silty sand with layer of gray plastic silt	3		
			SP-Tannish gray fine to medium poorly graded sand with trace of silt	4		
-30.8	32'		Gray, fine grained, trace of mica			SAMPLE LAB
-33.8			Tannish gray, fine to medium grained.	5		No. Class LL PL PI
-35.3	37'		Medium to coarse grained with 15% fine gravel			1 SP NP NP NP 27
			Fine to medium grained with trace of fine gravel.	6		2 SC.H 55 21 34
-39.8						4 SP NP NP NP 56
						7 CH 105 34 71 30
-45.8	42'		CL-Green micaceous lean clay.	7		32.3' Ten blows required to drive splitspoon from 33.7' to 33.8'.
			With 20% fine sand	8		39.8' Casing stopped following wash with fishtail
			Bottom of Hole: 45.8'			
			Note: Soils field classified in accordance with the Unified Soil Classification System.			Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".

DRILLING LOG			DIVISION	INSTALLATION		SHEET 1 OF 2 SHEETS	
1. PROJECT			South Atlantic		Savannah		
2. LOCATION (Coordinates or Station)			X-819190, Y-775340		10. SIZE AND TYPE OF BIT 3/8" ID splitspoon &		
3. DRILLING AGENCY			Savannah District		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) 4X5 1/2		
4. HOLE NO. (As shown on drawing title and file number)			SH-84		12. MANUFACTURER'S DESIGNATION OF DRILL MLW carbally		
5. NAME OF DRILLER			T.W. Scott, E. Mauldin		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 11		
6. DIRECTION OF HOLE			☒ VERTICAL, ☐ INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES 0		
7. THICKNESS OF OVERBURDEN 50.1'					15. ELEVATION GROUND WATER 0.0 MLW		
8. DEPTH DRILLED INTO ROCK 0.0'					16. DATE HOLE STARTED 12 Sep 83 COMPLETED 12 Sep 83		
9. TOTAL DEPTH OF HOLE 50.1'					17. ELEVATION TOP OF HOLE 0.0 MLW		
					18. TOTAL CORE RECOVERY FOR BORING 100%		
					19. SIGNATURE OF INSPECTOR James E. Bolen Geologist		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0	0						
	10		Sea Water 0.0'-26.9'				
	20						
	25						
-26.9			Bottom of Harbor 26.9'				
	30		SM-Gray silty coarse, medium sand low silt content		1	Note: Change of scale @ 20.0'. SAMPLE LAB No. Class LL PL PI 2 SP NP NP NP 3 SP NP NP NP 7 MH 74 35 39 10 CH 113 39 74	
	35		Gray, black with traces of fine gravel and clay		2		
			Gray silty coarse medium sand, low silt content		3		
	40				4		
-38.0			ML-Dark green clayey silt with 15% fine sand		5		
	42				6		
-42.0					7	Note: Weight of tool 26.9-27.5' Set 6" diameter steel casing to 29.2'. Note: Change of scale at 40.0'	
					8		
			Continued on Sheet 2 Note: Soils field classified in accordance with the Unified Soil Classification System.			Blows Per Foot: Number required to drive 1 3/8 ID splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG (Cont Sheet)			ELEVATION TOP OF HOLE		Hole No. SH-84	
PROJECT Savannah Harbor Widening			INSTALLATION Savannah, GA		SHEET 2 OF 2 SHEETS	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOV- ERY e	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-42.0	42b	c	d			
-42.5			ML-Dark green clayey silt, with 15% fine sand		8	Began Coring at 42.5'
			Core Loss-42.5'-45.6' believed to be clayey silt, easily washed out, rapid bit penetration.	0 RQD 0		Pull 1 From 42.5' To 45.6' Run 3.1' Rec 0.0' CL 3.1'
						All core washed out.
						Note: Change of scale at 45.0'
-45.6	45		ML-Dark green clayey silt, with 15% fine sand		9	Note: Resume split-
					10	spooning at 45.6'
					11	
-50.1	50		Bottom of Hole: 50.1'			Note: Depth figure in column 'e' is a taped depth after Pull.

Hole No. SH-85

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah, GA		Hole No. SH-85	SHEET 1 OF 2 SHEETS
1. PROJECT Savannah Harbor Widening			10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon			
2. LOCATION (Coordinates or Station) X-821038, Y-771926			11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District			12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-85			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 12	UNDISTURBED 0
5. NAME OF DRILLER T.W. Scott and Earl Maulden			14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER 0.0 MLW			
7. THICKNESS OF OVERBURDEN 50.0'			16. DATE HOLE		STARTED 13 Sep 83	COMPLETED
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0 MLW			
9. TOTAL DEPTH OF HOLE 50.0'			18. TOTAL CORE RECOVERY FOR BORING %			
			19. SIGNATURE OF INSPECTOR James E. Bolen Geologist <i>James E. Bolen</i>			

ELEVATION 0.0 a	DEPTH 0 b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Sea Water 0.0'-21.5'		JAR	Blows
	10					Note: Change of scale at 20.0'
-21.5	20		Bottom of Harbor: 21.5'			
-23.0			Wood chips, fibers (old piling ?)		1	
	25		SM-Gray, brown silty coarse, medium sand (low silt content)		2	
						SAMPLE LAB
						No. Class LL PL PI
						2 SP NP NP NP 12
						6 SP NP NP NP 12
					3	7 CH 99 31 68
	30		Gray silty medium grained sand, with a trace of coarse sand		4	10 CH 97 34 63 26
					5	
					6	
	35					
			Gray silty medium fine sand			
-39.5	40		ML-Dark green clayey silt with 10% fine sand		7	
					8	
-45.0	45				9	
			Continued on Sheet 2 Note: Soils field classified in accordance with the Unified Soil Classification System.			Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".

DRILLING LOG (Cont Sheet)			ELEVATION TOP OF HOLE		Hole No. SH-85	
PROJECT			INSTALLATION		SHEET 2	
Savannah Harbor Widening			Savannah, GA		Of 2 SHEETS	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-49.40	45 h	c	d	e	JAR	k Blows
			ML-Dark green clayey silt with 10% fine sand		9	57
			with 15% fine sand		10	61
					11	58
-50.0	50		Bottom of Hole: 50.0'		12	61

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah, GA	SHEET 1 OF 1 SHEETS
1. PROJECT Savannah Harbor Widening		10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon, 5"		
2. LOCATION (Coordinates or Station) X-824219, Y-768031		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW fishtail		
3. DRILLING AGENCY Savannah District		12. MANUFACTURER'S DESIGNATION OF DRILL Falling 314		
4. HOLE NO. (As shown on drawing title and file number) SH-86		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED 7	UNDISTURBED 0
5. NAME OF DRILLER T.W. Scott		14. TOTAL NUMBER CORE BOXES		
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER		
7. THICKNESS OF OVERBURDEN 51.0'		16. DATE HOLE STARTED 14 Sep 83 COMPLETED 14 Sep 83		
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLW		
9. TOTAL DEPTH OF HOLE 51.0'		18. TOTAL CORE RECOVERY FOR BORING %		
		19. SIGNATURE OF INSPECTOR James Bolen & James Arthur, Geologist		

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) Blows
0.0'	0					
	30		Sea Water 0.0'-31.2			Note: Change of scale at 30.0'
-31.2			Bottom of Harbor 31.2'			
			No Recovery (See Remarks)			Note: 31.2'-34.6' weight of tool string with hammer drove splitspoon. Had no sample recovery, but residual soil indicated medium grained silty sand.
-34.6	35		SM-Gray to brown medium to coarse silty sand with some clay.		1	
			38.6'-39.0' wood		2	
			Fine to medium grained			SAMPLE LAB
-40.5	40		SP-Tannish gray medium to coarse poorly graded sand with trace of silt.		3	No. Class LL PL PT 2 SP-SM NP NP NP 3 SP-SM NP NP NP 4 SP-SM NP NP NP
-42.0			SM-Tan, gray medium to coarse silty sand with trace of fine gravel.		4	Began second drive from 36.0'
-43.5	45		SP-Tannish gray medium to coarse poorly graded sand with trace of silt.		5	Casing set at 37.5'
-46.5			SM-Green fine silty sand		6	Casing followed each wash with fishtail to 46.5' where it remained until hole was completed.
-51.0	50		Bottom of Hole: 51.0'		7	
			Note Soils field classified in accordance with the Unified Soil Classification System.			Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".

Hole No. SH-87

DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 2 SHEETS	
1. PROJECT		South Atlantic		Savannah, GA			
2. LOCATION (Coordinates or Station)		Savannah Harbor Widening		10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon			
X-826323, Y-765959				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		MSL	
3. DRILLING AGENCY		Savannah District		12. MANUFACTURER'S DESIGNATION OF DRILL		Failing 314	
4. HOLE NO. (As shown on map or title and file number)		SH-87		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 9 UNDISTURBED 0	
5. NAME OF DRILLER		E. Maulden & T. Scott		14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE		☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER		0.0' MLW	
7. THICKNESS OF OVERBURDEN		50.0'		16. DATE HOLE		STARTED 14 Sep 83 COMPLETED 15 Sep 83	
8. DEPTH DRILLED INTO ROCK		0.0'		17. ELEVATION TOP OF HOLE		0.0 MLW	
9. TOTAL DEPTH OF HOLE		50.0'		18. TOTAL CORE RECOVERY FOR BORING		%	
				19. SIGNATURE OF INSPECTOR		James E. Bolen, Geologist <i>James E. Bolen</i>	
ELEVATION 0.0'	DEPTH 0	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	
	10		Sea Water 0.0'-19.6'			Note: Change of scale at 10.0'	
	15					SAMPLE LAB	
						No. Class LL PL PI	
						3 SP NP NP NP	
						7 SP NP NP NP	
						9 SC-H 65 26 39	
-19.6	20		Bottom of Harbor 19.6'				
	25		SM-Gray, brown silty coarse medium sand with 5% rounded fine gravel, subangular grains		1	Note: Weight of hammer 19.6'-20.5'	
					2	7	
						15	
					3	21	
					4	18	
-28.0	30		No Sample			46	
						Note: Because of mathematical error, accidentally washed out from 28.0'-32.0' while setting casing.	
-32.0	35		SM-Gray, brown silty coarse medium sand with 5% rounded fine gravel		5	17	
-35.0						32	
			Continued on Sheet 2				
			Note: Soils field classified in accordance with the Unified Soil Classification System.			Blows Per Foot: Number required to drive 1 3/8" ID splitspoon with 140lb hammer falling 30".	

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		0.0' MLW		Hole No. SH-87	
PROJECT Savannah Harbor Widening			INSTALLATION Savannah, GA			SHEET 2 OF 2 SHEETS	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
-35.0	35		SM-Gray, brown silty coarse, medium sand with 10% fine gravel, low silt content, subangular grains Silty coarse sand with some fine gravel		JAR	Blows	
						40	
						43	
						33	
						18	
						26	
						51	
						17	
						12	
-48.0	40		ML-Dark green, clayey silt with 25% fine sand		9	37	
-50.0	50		Bottom of Hole: 50.0'			62	

Hole No. SH-88

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah, GA	SHEET 1 OF 2 SHEETS
1. PROJECT Savannah Harbor Widening		10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon		
2. LOCATION (Coordinates or Station) X-827065, Y-765290		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW		
3. DRILLING AGENCY Savannah District		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314		
4. HOLE NO. (As shown on drawing title and title number) SH-88		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED 7	UNDISTURBED 0
5. NAME OF DRILLER T.W. Scott		14. TOTAL NUMBER CORE BOXES		
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER 0.0 MLW		
7. THICKNESS OF OVERBURDEN 50.2'		16. DATE HOLE	STARTED 16 Sep 83	COMPLETED 17 Sep 83
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLW		
9. TOTAL DEPTH OF HOLE 50.2'		18. TOTAL CORE RECOVERY FOR BORING %		
		19. SIGNATURE OF INSPECTOR T.W. Scott & James E. Bolen <i>James E. Bolen</i>		

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)
0.0	0	c	d	e	f	g
			Sea Water 0.0'-23.2'		1AR	Blows
	10					
	20					Note: Change of scale 20.0'
-23.2			Bottom of Harbor 23.2'			
	25		SM-Gray, brown silty coarse, medium sand, low silt content		1	24
						SAMPLE 1AR 20
						No. Class LL PL PI
						2 SP-SM NP NP NP 23
	30				2	6 SC-H 71 30 41 25
						20
						19
	35		Gray		3	29
						60
						16
	40				4	40
						16
						22
					5	20
						70
-45.0	45		Continued on Sheet 2			Blows Per Foot: Number required to drive 1 3/8" ID splitspoon with 140 lb hammer falling 30".
			Note: Soils field classified in accordance with the Unified Soils Classification			

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No.		
PROJECT		INSTALLATION		SHEET		
Savannah Harbor Widening		Savannah, GA		2		
				OF 2 SHEETS		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
45.0	45b	c	d			
45.7			SM-Gray silty coarse medium sand (moderate silt content)		6	61
			ML-Dark green, clayey silt, with 15% fine sand			50
					7	37
50.2	50					58
			Bottom of Hole: 50.2'			

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		Hole No. SH-89 SHEET 1 OF 1 SHEETS	
1. PROJECT Savannah River Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon			
2. LOCATION (Coordinates or Station) X-827760, Y-764580				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MWL			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL CME 75			
4. HOLE NO. (As shown on drawing title and file number) SH-89				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6	UNDISTURBED 0
5. NAME OF DRILLER Earl Maulden T.W. Scott				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER 0.0 MLW			
7. THICKNESS OF OVERBURDEN 50.5' (Water & Soil)				16. DATE HOLE STARTED 17 Sep 83 COMPLETED 17 Sep 83			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0 MLW			
9. TOTAL DEPTH OF HOLE 50.5'				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR James E. Bolen, Geologist <i>James E. Bolen</i>			
ELEVATION (0.0)	DEPTH (0)	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	0		Sea Water 0.0'-33.0'				
	20						
	30						
-33.0			Bottom of Harbor: 33.0'				Note: Change of scale at 30.0'
	35		MH-Greenish black fat clayey silt with some organic matter and a trace of fine sand		1		Note: Weight of tools 33.0'-34.1'
-36.6			SM-Dark green silty, medium sand, with some fine sand		2		After driving to 37.1'. Cleaned out boring to only 37.0'. Following drive is 37.0'-38.5'.
	40				3		
			Silty coarse medium sand		4		
-44.5	45						SAMPLE LAB
			MH-Dark green fat clayey silt		5		No. Class LL PL PI
							1 CH 147 43 104 14
							3 SP-SM NP NP NP
							5 CH 123 45 78 19
	50				6		
-50.5			Bottom of Hole 50.5'				
			Note: Soils field classified in accordance with the Unified Soil Classification System.				Blows per Foot: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".

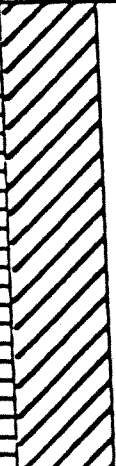
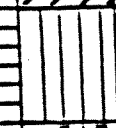
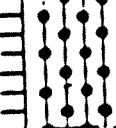
DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		SHEET 1 OF 1 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT MLW			
2. LOCATION (Coordinates or Station) X-829915, Y-762450				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL CME 75			
4. HOLE NO. (As shown on drawing title and file number) SH-90				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5	UNDISTURBED 0
5. NAME OF DRILLER Earl Maulden				14. TO: NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER 0.0 MLW			
7. THICKNESS OF OVERBURDEN 50.0'				16. DATE HOLE		STARTED 17 Sep 83	COMPLETED 18 Sep 83
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLW			
9. TOTAL DEPTH OF HOLE 50.0'				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR James E. Bolen, Geologist <i>James E. Bolen</i>			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0	0	c	d	e		Blows	
	10		Sea Water 0.0'-40.7'			Note: Change of scale at 40.0'.	
	20					SAMPLE LAB	
	30					No. Class LL PL PI	
	40		Bottom of Harbor: 40.7'			2 SM NP NP NP	
-40.7			MH-Dark green fat clayey silt		1	Note: Weight of tools 40.7'-40.9'.	
-40.9			SM-Gray black, silty medium fine sand with a little clay (in clay lenses)		2	After driving to 43.9'. Set 6" diameter steel casing to 44.0'. Following drive was 44.0'-45.5'.	
	45		ML-Green clayey silt, with 20% fine sand.		3	5	
-45.5					4	14	
	50		Bottom of Hole 50.0'		5	28	
-50.0			Note: Soils field classified in accordance with the Unified Soil Classification System.			35	
						40	
						Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".	

Hole No. SH-94

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		SHEET 1 OF 1 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon			
2. LOCATION (Coordinates or Station) X-823605, Y-768807				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-94		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 3		UNDISTURBED 0	
5. NAME OF DRILLER E. Maulden and T.W. Scott				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER 0.0 MLW			
7. THICKNESS OF OVERBURDEN 50.0' (including water)				16. DATE HOLE 20 Sep 83			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0 MLW			
9. TOTAL DEPTH OF HOLE 50.0'				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR James Bolen, Geologist <i>James Bolen</i>			
ELEVATION 0.0 a	DEPTH 0 b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
			Sea Water 0.0'-41.2'		JAR	Blows	
	10					Note: Change of scale at 40.0'	
	20					SAMPLE LAB	
	30					No Class LL PL PI	
	40					1 CM 116 34 82	
-41.2			Bottom of Harbor: 41.2'			2 SC-II 59 27 32	
			MH-Dark gray fat clayey silt with a little fine sand		1	Note: 44.2' set 6" diameter steel casing to 44.0'	
-44.0			ML-Green clayey silt with 30% fine sand.		2	Following drive was 44.0'-45.5'	
	45					10	
						24	
						64	
						57	
-50.0	50		Bottom of Hole: 50.0'		3	42	
			Note: Soils field classified in accordance with the Unified Soil Classification System.			Blows Per Foot: Number required to drive 1 3/8" ID splitspoon with 140 lb hammer falling 30".	

Hole No. SH-95

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah, GA	SHEET 1 OF 2 SHEETS
1. PROJECT Savannah Harbor Widening			10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon &	
2. LOCATION (Coordinates or Station) X-828501 Y-763920			11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW 4X5 1/2 Diamond Coring Bit	
3. DRILLING AGENCY Savannah District			12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314	
4. HOLE NO. (As shown on drawing title and file number) SH-95			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 9 UNDISTURBED 0	
5. NAME OF DRILLER T.W. Scott			14. TOTAL NUMBER CORE BOXES 1	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER 0.0 MLW	
7. THICKNESS OF OVERBURDEN 51.5'			16. DATE HOLE STARTED 21 Sep 83 COMPLETED 21 Sep 83	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0 MLW	
9. TOTAL DEPTH OF HOLE 51.5'			18. TOTAL CORE RECOVERY FOR BORING 40 %	
			19. SIGNATURE OF INSPECTOR James E. Bolen, Geologist <i>James E. Bolen</i>	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) Blows
0.0	0		Sea Water 0.0'-16.0'			Note: Change of scale 10.0'
	10					SAMPLE LAB
						No. Class LL PL PI
						3 CL 48 27 21
						4 MH 57 38 19
						9 CH 60 29 31
	15		Bottom of Harbor 16.0'			
-16.0			CH-Gray silty fat clay with 10% medium sand		1	Note: 16.0'-18.1' weight of tools.
	20					Note: At 21.1' set casing to 21.0'. Weight of tools 21.0'-27.0'
	25				2	
					3	
-28.5			ML-Dark gray clayey silt, with 10% fine sand		4	
	30					
-31.5			SM-Gray silty coarse, fine sand (moderate silt content)		5	
					6	
-35.0	35		Continued on Sheet 2 Note: Soils field classified in accordance with the Unified Soils Classification System.			Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140 lb hammer falling 30".

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		0.0 MLW		Hole No. SH-95	
PROJECT			INSTALLATION			SHEET 2 OF 2 SHEETS	
Savannah Harbor Widening			Savannah, GA				
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)	
-35.0	35	b	c	d	e	f	Blows
			SM-Gray silty coarse fine sand (moderate silt content)		6		71
							39
	40				7	Note: Change of scale at 45.0'	50
							43
							49
					8		51
-45.0	45		ML-Green clayey silty with 10% fine sand				100/0.9
	46				9		
			46.5'-48.5' Core is crumbled, broken				100
	47				Box 1	Pull 1 From 46.5' To 51.5' Run 5.0' Rec 2.0' CL 3.0' Penetration Rate: 6.2 (minutes per foot)	
	48			40 RQD N/A			
-48.5			48.5'-49.5' Core Loss washes out by drill water		48.5	Note: 2.0' of core left in hole. Note: Change of scale at 50.0'	
	49						
-49.5			ML-Green clayey silt with 10% fine sand	49.5			
	50						
	51						
-51.5			Bottom of Hole: 51.5'				Note: Depth figure in column "e" is taped depth after run.

DRILLING LOG

DIVISION
South AtlanticINSTALLATION
Savannah, GASHEET 1
OF 1 SHEETS

1. PROJECT Savannah Harbor Widening		10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon	
2. LOCATION (Coordinates or Station) X 822345, Y 770418		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
3. DRILLING AGENCY Savannah District		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314	
4. HOLE NO. (As shown on drawing title and file number) SH-97		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED 4
5. NAME OF DRILLER E. Marden		14. TOTAL NUMBER CORE BOXES	0
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	0.0 MLW
7. THICKNESS OF OVERBURDEN 50.0		16. DATE HOLE	STARTED 22 Sep 83 COMPLETED 23 Sep 83
8. DEPTH DRILLED INTO ROCK 0.0		17. ELEVATION TOP OF HOLE	0.0 MLW
9. TOTAL DEPTH OF HOLE 50.0'		18. TOTAL CORE RECOVERY FOR BORING	N/A
		19. SIGNATURE OF INSPECTOR James Bolen, Geologist <i>James Bolen</i>	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
0.0	0 b	c	d	e	f	g Blows
	10		Sea Water 0.0'-40.2'			SAMPLE LAB No. Class LL PL PI 1 SP NP NP NP 2 SM 40 29 11 3 SC-H 66 28 38 4 SC-H 51 28 23 Note: Change of scale at 40.0'.
-40.2	40		Bottom of Harbor 40.2'			
-42.2			SM-Brown silty coarse, fine sand, slightly clayey		1	Note: Weight of tools 40.2'-40.7'. 17
-44.0			SC-Green clayey medium fine sand, with 10% fine gravel		2	At 43.7' set casing to 44.0'. 32
	45		ML-Green clayey silt with 35% fine sand		3	51
						67
						80
					4	86
-50.0	50		Bottom of Hole: 50.0' Note: Soils field classified in accordance with the Unified Soil Classification System.			Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".

Hole No. SH-97A

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
1. PROJECT		South Atlantic		Savannah District		1 OF 2 SHEETS	
2. LOCATION (Count rates or Station)		Savannah Harbor Widening		10. SIZE AND TYPE OF BIT		1 3/8" Splitspoon	
X-822560 Y-770580				11. DATUM FOR ELEVATION		LOWN (TBM or MSL)	
3. DRILLING AGENCY		Savannah District		MLW		Fish tail & 4x5 1/2"	
4. HOLE NO. (As shown on drawing title and file number)		SH-97A		12. MANUFACTURER'S DESIGNATION OF DRILL		Carbide bit	
5. NAME OF DRILLER		Tommy Scott		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKE		DISTURBED 5 UNDISTURBED 0	
6. DIRECTION OF HOLE		☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES		1	
7. THICKNESS OF OVERBURDEN		20.6'		15. ELEVATION GROUND WATER		N/A	
8. DEPTH DRILLED INTO ROCK		0.0'		16. DATE HOLE		STARTED 9 Nov 1983 COMPLETED 10 Nov 1983	
9. TOTAL DEPTH OF HOLE		48.8'		17. ELEVATION TOP OF HOLE		0.0' MLW	
				18. TOTAL CORE RECOVERY FOR BORING		28.3%	
				19. SIGNATURE OF INSPECTOR		Thaddeus J. Zielonka, Jr., Geologist	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0'	0	c	d	e	JAR	g BLOWS	
			River water 0.0' to 28.2'			NOTE: Scale change @ 25.0'	
-28.2'	28.2'		Bottom of Harbor 28.2'				
			MH-Dark grey silt			NOTE: W/T=Weight of tools & 140 lb hammer.	
-34.2'	34.2'		SM-Dark grey fine grained very silty sand.		1	W/T	
			With organic material from 36.0' to 37.5'		2	20	
			Change to fine to med. grained at 37.5'		3	3	
			Change to grey & w/occ. gravel at 39.0'		4	80	
			SM-Green-grey fine grained silty sand		5	NOTE: Scale change @ 40.0'	
-44.0'	44		(Con't. on sht. 2)		Box 1	Pull #1 From 42.8' to 45.8'	
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/140 lb hammer falling	

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE 0.0' MLW		Hole No. SH-97A		
PROJECT Savannah Harbor Widening			INSTALLATION Savannah District		SHEET 2 OF 2 SHEETS	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-44.0'	44		SM-Green-grey fine grained silty sand.	56.7%	Box 1	Pull #1 cont. Run 3.0' Rec 1.7' C.L. 1.3' U.L. 1.3' 100% Green-grey ret. CD 45.8'
	46			0%		Pull #2 From 45.8' to 48.8' Run 3.0' Rec 0.0' C.L. 3.0' U.L. 3.0' 100% Green-grey ret.
-48.8'	48		Bottom of Hole 48.8'			CD 48.8'

Hole No. SH-99

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		SHEET 1 OF 1 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID Splitspoon			
2. LOCATION (Coordinates or Station) X-823017 Y-769666				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-99				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 4	UNDISTURBED 0
5. NAME OF DRILLER E. Maulden				14. TOTAL NUMBER CORE BOXES ()			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER 0.0 MLW			
7. THICKNESS OF OVERBURDEN 51.0' includes water				16. DATE HOLE STARTED 24 Sep 83 COMPLETED 24 Sep 83			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0 MLW			
9. TOTAL DEPTH OF HOLE 51.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR James E. Bolen, Geologist <i>James E. Bolen</i>			
ELEVATION 0.0 a	DEPTH 0 b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
			Sea Water 0.0'-37.5'		JAR	Blows	
	10						
	20						
	30						
-37.5			Bottom of Harbor 37.5'			Note: Change of scale at 40.0'	
-40.5'	40		MH-Black fat clayey silt with minor organic matter		1	Note: Weight of tools 37.5'-40.5' At 42.0' set casing to 42.0'. 19	
-42.0			SM-Gray silty, medium, fine sand (moderate silt content)		2	SAMPLE LAB 59	
			ML-Green sandy silt.		3	No. Class LL PL PI	
	45					3 CH 66 26 40 70	
			Clayey silt with 20% fine sand			57	
						53	
	50					69	
-51.0			Bottom of Hole: 51.0'		4	88	
			Note: Soils field classified in accordance with the Unified Soil Classification System.			Blows Per Foot: Number required to drive a 1 3/8" ID splitspoon w/140 lb. hammer falling 30".	

Hole No. SH-99A

DRILLING LOG

DIVISION
South AtlanticINSTALLATION
Savannah DistrictSHEET 1
OF 1 SHEETS

1. PROJECT Savannah Harbor Widening		10. SIZE AND TYPE OF BIT 1 3/8" Splitspoon	
2. LOCATION (Coordinates or Station) X-823210 Y-769780		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
3. DRILLING AGENCY Savannah District		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314	
4. HOLE NO. (As shown on drawing title and file number) SH-99A		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED: 6 UNDISTURBED: 0	
5. NAME OF DRILLER Tommy Scott		14. TOTAL NUMBER CORE BOXES 0	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN 7.4'		16. DATE HOLE STARTED: 9 Nov 1983 COMPLETED: 9 Nov 1983	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0' MLW	
9. TOTAL DEPTH OF HOLE 47.0'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR Thaddeus J. Zielonka, Jr., Geologist	

ELEVATION (a) (ft)	DEPTH (b)	LEGEND (c)	CLASSIFICATION OF MATERIALS (Description) (d)	% CORE RECOVERY (e)	BOX OR SAMPLE NO. (f)	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) (g)
			River water 0.0' to 39.6'		JAR	NOTE: Scale change @ 30.0' SAMPLE LAB No. Class LL PL PI 3 SC-H 138 49 89
-39.6'	40		Bottom of Harbor 39.6'			
-41.1'			MH-Dark grey inorganic silt. 41.1'		1	NOTE: W/T=Weight of tools & 140 lb. 20 hammer. 20 31 87
-43.0'			SM-Dark grey fine to med. grained silty sand. 43.0'		2	
-44.0'			MH-Dark grey inorganic silt. 44.0'		3	
-45.0'	45		SM-Grey fine to med. grain- ed silty sand 45.0'		4	
-46.7'			GM Tan to grey silty, sand, fine & coarse gravel 46.7'		5	
-47.0'			SM-Light grey fine silty sand		6	
	50		Bottom of Hole 47.0'			
NOTE: Soils field classi- fied in accordance with the Unified Soil Classifi- cation System.						BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".

Hole No. SH-105

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID split spoon			
2. LOCATION (Coordinates or Station) X 830571 Y 761702				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number)		SH-105		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 14	UNDISTURBED ()
5. NAME OF DRILLER E. Maulden				14. TOTAL NUMBER CORE BOXES ()			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 43.5'				16. DATE HOLE STARTED 11 Oct 83 COMPLETED 13 Oct 83			
8. DEPTH DRILLED INTO ROCK 0.0				17. ELEVATION TOP OF HOLE 0.0 MLW			
9. TOTAL DEPTH OF HOLE 50.3'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR Thaddeus J. Zielonka <i>Thaddeus J. Zielonka</i>			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0	0		Sea Water 0.0'-6.8'		JAR	9 Blows	
-6.8	5		Bottom of Harbor 6.8'				
-8.3			CH-Dark gray plastic clay		1	Note: W/T = Weight 5	
-11.3	10		SM-Tan-gray fine to medium grained silty sand. Occasional MH stringers		2	of tools and 140lb. 15	
-15.5	15		MH-Dark gray silt.			SAMPLE LAB 2	
-16.0			SM-Gray fine medium silty sand		3	No. Class LL PL PI W/T	
-17.5			MH-Dark gray silt		4	1 14 44 26 15	
-22.0	20		SM-Gray fine to medium grained silty sand		5	28	
-23.5	25		SP-Tan-gray fine to medium poorly graded sand		6	16	
-29.5			SM-Gray fine grained silty sand		7	75	
-30.0	30		Grain size change fine to medium grained		8	7	
			SP-(Continued)			23	
			Continued on Sheet 2			44	
			Note: Soils classified in accordance with the Unified Soil Classification System.			88	
						Blows Per Foot: Number required to drive 1 3/8" ID split spoon w/140 lb. hammer falling 30".	

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No.			
PROJECT Savannah Harbor Widening		INSTALLATION Savannah, GA		SHEET 2 OF 2 SHEETS			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOV- ERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	Blows
-30.0	30b	c	d	e			30
			SP-(Continued) Tan medium to coarse poorly graded sand with a trace of gravel		9		50
							44
	35				10		72
			Color change to light gray. Fine to medium below 37.0'		11		23
							14
	40						68
			Medium to coarse with occasional gravel below 41.5'		12		17
							25
-44.5	45		SM-Green-gray fine to coarse silty sand				29
-46.0			SP-Gray medium to coarse poorly graded sand with trace of gravel		13		13
-47.5							40
			SM-Green-gray very fine silty sand		14		100/2
-50.3	50		Bottom of Hole: 50.3'				100/0

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, Ga.		Hole No. SH-107 SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" Splitspoon			
2. LOCATION (Coordinates, etc.) X-828142; Y-764254				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-107				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 7	UNDISTURBED 0
5. NAME OF DRILLER A. Yates				14. TOTAL NUMBER CORE BOXES N/A			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN 51.2'				16. DATE HOLE STARTED 15 Oct 1983 COMPLETED 16 Oct 1983			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLW			
9. TOTAL DEPTH OF HOLE 51.2'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR Larry Benjamin <i>Larry Benjamin</i>			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
0.0'	0'					
	20		Sea Water 0.0' to 22.7'			
-22.7			Bottom of Harbor 22.7'			NOTE: Scale change @ 20.0'
-24.2'	25		CH-Dark green fine silty fat clay 24.2'		1	
			SM-Green fine silty sand		2	
-30.2'	30					NOTE: Weight of hammer 140 lbs.
			SP-Tan & green coarse poorly graded sand		3	
-34.7'	35					SAMPLE LAB
			SM-Tan fine silty sand, trace of coarse grain sizes		4	
-40.7'	40		Green, no coarse grain sizes			
			No green color		5	
-45.2'	45		Green			
			(Con't. on sht. 2) NOTE: Soils field classified in accordance with the Unified Soil Classification System.			

No.	Class	LL	PL	PI	
2	SP	NP	NP	NP	27
4	SP	NP	NP	NP	
6	SM	45	31	14	16

BLOWS PER FOOT:	
Number required to drive 1 3/8" split-spoon w/140 lb. hammer falling 30".	

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No. SH-107		
PROJECT		INSTALLATION		SHEET 2 OF 2 SHEETS		
Savannah Harbor Widening		Savannah District				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-45.2	45	c	d	e	JAR	BLOWS
-51.2'	45		SM-Green fine silty sand trace of river gravel		6	66
						53
						35
	7				34	
	50		Bottom of Boring 51.2'			

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, Ga		Hole No. SH-108	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon		SHEET OF 2 SHEETS	
2. LOCATION (Coordinates or Station) X-825961, Y-766310				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-108				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 9	
5. NAME OF DRILLER Earl Maulin				14. TOTAL NUMBER CORE BOXES 0		UNDISTURBED 0	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 35.9				16. DATE HOLE		STARTED 19 Oct 83	
8. DEPTH DRILLED INTO ROCK 0.0				17. ELEVATION TOP OF HOLE 0.0 MLW		COMPLETED 19 Oct 83	
9. TOTAL DEPTH OF HOLE 50.0				18. TOTAL CORE RECOVERY FOR BORING N/A		%	
				19. SIGNATURE OF INSPECTOR Ted Zielonka		Blows	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
0.0	0		River Water 0.0'-14.1'			
	10					Note: Scale change at 10.0'
	15		Bottom of Harbor 14.1'			
	20		CH-Dark gray plastic clay.			
	25		25.3'-25.5' SM stringer 25.5'			
	28.0		MH-Dark gray silt.			
	29.5		SM-Gray fine to medium grained silty sand 29.5'			
	30		MH- Dark gray silt with some sand.			
	35					
			Continued on Sheet 2			
			Note: Soils field classified in accordance with the Unified soil Classification.			

SAMPLE LAB					w/t
No.	Class	LL	PL	PI	
2	MH	111	57	54	
4	MH	88	44	44	
5	SM	NP	NP	NP	
9	MH	56	32	24	
					3
					w/t
					9
					w/t
					3
					w/r

Continued on Sheet 2 Note: Soils field classified in accordance with the Unified soil Classification.	Blows Per Foot Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".
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DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE 0.0 MLW		Hole No. SH-108			
PROJECT Savannah Harbor Widening			INSTALLATION Savannah District		SHEET 2 OF 2 SHEETS		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	Blows
-35	35.0		MI-Continued 35.9'		JAR		8
			SM- Dark gray fine to medium grained silty sand.				w/t
	40		39.5' to 41.0'-wood chips.		5		5
			color change to gray and less silt below 41.0'.				7
							9
							7
	45		Fine to coarse grained below 45.5'.		6		19
					7		12
			change to dark green/gray very fine silty sand.		8		23
					9		58
-50.0	50		Bottom of Hole 50.0'				
			Note: Soils field classified in accordance with the Unified Soil Classification System.				
						Blows Per Foot Number required to drive 1 3/8" ID splitspoon w/ 1lb. hammer falling 30".	

Hole No. SH-109

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah District		SHEET 1 OF 1 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID Splitspoon			
2. LOCATION (Coordinates or Station) X-82390 / Y-768402				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-109				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 4	UNDISTURBED 0
5. NAME OF DRILLER Earl Mauldin				14. TOT - NUMBER CORE BOXES 0		15. ELEVATION GROUND WATER N/A	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				16. DATE HOLE STARTED 19 Oct 83		COMPLETED 19 Oct 83	
7. THICKNESS OF OVERBURDEN 11.9'				17. ELEVATION TOP OF HOLE 0.0 MLW			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING 0 %			
9. TOTAL DEPTH OF HOLE 50.5'				19. SIGNATURE OF INSPECTOR Ted Zielonka <i>Ted Zielonka</i>			
ELEVATION 0.0'	DEPTH (') b	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	
	30		River Water 0.0' to 38.6'			Note: Scale change at 30.0'.	
	35					SAMPLE LAB	
						No. Class LL PL PI	
						1 MH 156 60 96	
						3 SM-H 63 32 31	
-38.6			Bottom of Harbor 38.6'				
	40		MH- Dark gray silt with some sand.		1		
					2		
-41.6			41.6'				
			SM- Green/gray fine to coarse silty sand with gravel.		3		
	45		Very fine silty sand with no gravel below 42.4'.				
			GM layer 0.2' thick at 44.0'.		4		
-50.5'	50						
			Bottom of Hole at 50.5'				
			Note: Soils field classified in accordance with the Unified Soil Classification System.			Blows Per Foot Number required to drive 1 3/8" ID splitspoon w/14 lb. hammer falling 30".	

Hole No. SH-110

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah District		SHEET OF 1 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID Splitspoon			
2. LOCATION (Coordinates or Station) X-826703 Y-765650				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-110				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6	UNDISTURBED 0
5. NAME OF DRILLER Earl Mauldin				14. TOTAL NUMBER CORE BOXES 0		15. ELEVATION GROUND WATER N/A	
6. DIRECTION OF HOLE ☒ VERTICAL, ☐ INCLINED _____ DEG. FROM VERT.				16. DATE HOLE 20 Oct 83		STARTED 20 Oct 83	
7. THICKNESS OF OVERBURDEN 15.0'				17. ELEVATION TOP OF HOLE 0.0 MLW			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A			
9. TOTAL DEPTH OF HOLE 50.0'				19. SIGNATURE OF INSPECTOR Ted Zielonka			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0	0		River Water 0.0' to 35.0'.			Blows	
	30					Note: Scale change at 30.0'.	
						SAMPLE LAB	
						No. Class LL PL PI	
						2 SP NP NP NP	
						4 SP NP NP NP	
	35		SM-Gray fine to medium grained silty sand with MH layers and occasional gravel.		1	12	
					2	12	
						13	
	40		Wood between 36.5' and 38.0'			32	
						63	
-42.5			42.5'			22	
	45		SP-Tan fine to coarse grained poorly graded sand with gravel.		3	48	
			Fine to medium below 45.5'			30	
-47.0			47.0'		4	100/0.7	
-48.5			SP-SM Gray fine to medium poorly graded silty sand		5	97	
-50.0	50		SM-Tan fine to coarse silty sand with gravel.		6		
			Bottom of Hole 50.0				
			Note: Soils field classified in accordance with the Unified Soil Classification System.			Blows Per Foot Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".	

Hole No. SH-111

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah District		SHEET OF 1 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID Splitspoon			
2. LOCATION (Coordinates or Station) X-823330 Y-769241				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Falling 314			
4. HOLE NO. (As shown on drawing title and file number) SH-111				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 3	
5. NAME OF DRILLER Earl Mauldin				14. TOTAL NUMBER CORE BOXES 0		UNDISTURBED 0	
6. DIRECTION OF HOLE [X] VERTICAL [] INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 14.0'				16. DATE HOLE 20 OCT 81			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0 MLW			
9. TOTAL DEPTH OF HOLE 50.0'				18. TOTAL CORE RECOVERY FOR BORING N/A			
				19. SIGNATURE OF INSPECTOR Ted Zielonka			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0	0.0	c	d	e		g	
	30		River Water 0.0' to 36.0'.			Note: Scale change at 30.0'.	
	36.0		Bottom of Harbor 36.0'			SAMPLE LAB No. Class LL PL PI 2 SH 47 33 14	
	40		SM-Gray fine to medium silty sand with dark gray MH layers. Color change to green/gray at 42.5'. MH layers absent below 42.5'.		1	Note: W/T = weight of tools and 140 W/T lb. Hammer.	
	45				2		
	50		Change to fine grained below 48.5'.		3		
			Bottom of Hole at 50.0'				
			Note: Soils field classified in accordance with the Unified Soil Classification System.			Blows Per Foot Number required to drive 1 3/8" ID splitspoon w/10 lb. hammer falling 30".	

Hole No. SH-112

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah District		SHEET 1 OF 1 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 3/8" ID Spitspoon			
2. LOCATION (Coordinates or Station) X-824512, Y-767695				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-112				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 8		UNDISTURBED 0	
5. NAME OF DRILLER Tommy Scott				14. TOTAL NUMBER CORE BOXES 0		15. ELEVATION GROUND WATER N/A	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				16. DATE HOLE 31 Oct 83		STARTED 31 Oct 83	
7. THICKNESS OF OVERBURDEN 27.0'				17. ELEVATION TOP OF HOLE 0.0 MLW		COMPLETED 31 Oct 83	
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 48.0'				19. SIGNATURE OF INSPECTOR Ted Zielonka			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0	0				JAK	Blows	
	20		River Water 0.0' to 21.0'			Note: Scale change at 20.0'.	
-21.0			Bottom of Harbor 21.0'				
			SM-Tan fine to medium grained silty sand.		1		
			Color change to gray at 22.2'		2	16	
	25		Contains organic material from 22.2' to 24.0'.			17	
			Color change to dark gray at 28.0'.			18	
-28.5			28.5'			55	
	30		No Recovery			36	
-31.5			31.5'			100/0.9	
-33.0			SC-Dark gray fine to medium grained clayey sand.		4	Note: 28.5' to 31.5' cuttings appear to be from gray fine to medium silty sand.	
	35		SM-Gray fine to medium grained silty sand.		5	23	
			Fine to coarse grained with gravel below 37.5'.			20	
-40.5	40		40.5'		6	20	
-43.5			No Recovery.			20	
			43.5'			Note: 40.5' to 43.5' Cuttings appear to be from gray fine to coarse silty sand.	
	45		SP-Tan fine to coarse grained poorly graded sand with gravel.		7	29	
			Gravel absent below 46.5'.			32	
-48.0			Bottom of boring at 48.0'		8	2	
			Note: Soils field classified in accordance with the Unified Soil Classification System			4	
						7	
						NP NP NP NP	
						SM - - -	
						SP NP NP NP	
						40	
						39	
						40	
						BLOWS PER FOOT	
						Number required to drive 1 3/8" ID splitspoon w/140	

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah District		Hole No. SH-113 SHEET 1 OF 1 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID Splitspoon			
2. LOCATION (Coordinates or Station) X-829169, Y-763181				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number)		SH-113		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5 UNDISTURBED 0	
5. NAME OF DRILLER Tommy Scott				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 13.4				16. DATE HOLE STARTED 24 Oct 83		COMPLETED 24 Oct 83	
8. DEPTH DRILLED INTO ROCK 0.0				17. ELEVATION TOP OF HOLE 0.0 MLW			
9. TOTAL DEPTH OF HOLE 50.0				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR Ted Zielonka <i>Ted Zielonka</i>			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0	0				JAR	9 BLOWS	
	30		River Water 0.0' to 36.6'			Note: Scale change at 30.0'. SAMPLE LAB No. Class LL PL PI 2 SP NP NP NP	
-36.6	35		Bottom of Harbor 36.6'				
-39.6	40		ML- Dark gray inorganic silt 39.6'		1	Note: W/T= Weight of tools and 140 w/ 1b. hammer.	
-42.5	42.5		SM- Tan to gray fine to medium grained silty sand. MH layer at 42.4'.		2	7	
	45		SP- Tan fine to medium grained poorly graded sand. Medium to coarse grained with trace of gravel below 44.0'.		3	30	
-46.5	46.5		SM- Green-gray fine silty sand.		4	29	
	50		Bottom of Hole 50.0'		5	55	
			Note: Soils field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT Number required to drive 1 3/8" ID splitspoon w/ 140 lb. hammer falling 30".	

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah District		Hole No. SH-114 SHEET 1 OF 1 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID Splitspoon			
2. LOCATION (Coordinates or Station) X-822680 Y-770025				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Falling 314			
4. HOLE NO. (As shown on drawing title and file number) SH-114				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6 UNDISTURBED 0	
5. NAME OF DRILLER Tommy Scott				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 8.8'				16. DATE HOLE		STARTED 25 Oct 83 COMPLETED 25 Oct 83	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0 MLW			
9. TOTAL DEPTH OF HOLE 50.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR Ted Zielonka <i>Ted Zielonka</i>			
ELEVATION 0.0'	DEPTH 0'	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 BLOWS	
			River Water 0.0' to 41.2'		JAR		
			Bottom of Harbor 41.2'			Note: Scale change at 40.0'.	
			MH-Dark gray silt.				
			SM-Dark gray fine-medium silty sand. Organ. odor. 45.7'		1	Note: W/T= Weight of tools and 140w/r lb. hammer.	
-45.0	45				2	SAMPLE LAB	
-45.7					3	No. Class LL PL PI 30	
-46.7			MH-Dark gray-silt. 46.7'				
			SM-Dark gray fine to medium grained silty sand. 49.0'		2	SM	NP NP NP 30
					3	MH	131 51 80
-49.0			GM-Green-gray silty sandy gravel.		4	SP	NP NP NP 43
-49.5					5		
-50.0	50		SM-Green-gray fine silty sand		6	67	
			Bottom of Hole at 50.0'				
			Note: Soils field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 1 SHEETS	
1. PROJECT		South Atlantic		Savannah District			
2. LOCATION (Coordinates or Station)		Savannah Harbor Widening		10. SIZE AND TYPE OF BIT		1 3/8" ID Splitspoon	
3. DRILLING AGENCY		X-822052 Y-770810		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		MLW	
4. HOLE NO. (As shown on drawing title and file number)		SH-115		12. MANUFACTURER'S DESIGNATION OF DRILL		Failing 314	
5. NAME OF DRILLER		Tommy Scott		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 4 UNDISTURBED 0	
6. DIRECTION OF HOLE		(X) VERTICAL () INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES		0	
7. THICKNESS OF OVERBURDEN		15.3		15. ELEVATION GROUND WATER		N/A	
8. DEPTH DRILLED INTO ROCK		0.0		16. DATE HOLE		STARTED 25 Oct 83 COMPLETED 25 Oct 83	
9. TOTAL DEPTH OF HOLE		50.0		17. ELEVATION TOP OF HOLE		0.0 MLW	
				18. TOTAL CORE RECOVERY FOR BORING		N/A %	
				19. SIGNATURE OF INSPECTOR		Ted Zielonka <i>Ted Zielonka</i>	
ELEVATION 0.0 a	DEPTH 0 b	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	
			River Water 0.0' to 34.7'			Note: Scale change at 30.0'	
	30					SAMPLE LAB	
						No. Class LL PL PI	
						1 SP NP NP NP	
						3 SM 48 34 14	
-34.7	34.7		Bottom of Harbor 34.7'				
			Core Recovery 36.7'				
-36.7	36.7		SH-Tan fine to medium grained silty sand.		1	Note: W/T- Weight of 29 tools and 140 lb. hammer. 15	
	40		Change to gray fine to coarse silty sand with gravel.		2	50	
			Change to green-gray fine grained silty sand.		3	50	
	45					70	
			With gravel below 45.5'			53	
			Gravel decreasing below 47.0'		4	57	
			With occasional gravel below 48.5'			60	
-50.0	50		Bottom of Hole at 50.0'			80	
			Note: Soils field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah District		SHEET OF 2 SHEETS 1																																									
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID Splitspoon																																											
2. LOCATION (Coordinates or Station) X-819439, Y-774920				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW																																											
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314																																											
4. HOLE NO. (As shown on drawing title and file number) SH-116				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 11	UNDISTURBED 0																																								
5. NAME OF DRILLER Tommy Scott				14. TOTAL NUMBER CORE BOXES 0																																											
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A																																											
7. THICKNESS OF OVERBURDEN 38.5				16. DATE HOLE 27 Oct 83																																											
8. DEPTH DRILLED INTO ROCK 0.0				17. ELEVATION TOP OF HOLE 0.0 MLW																																											
9. TOTAL DEPTH OF HOLE 50.5				18. TOTAL CORE RECOVERY FOR BORING N/A %																																											
				19. SIGNATURE OF INSPECTOR Ted Zielonka <i>Ted Zielonka</i>																																											
ELEVATION 0.0	DEPTH 0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g																																									
			River Water 0.0' to 12.0'			<table border="1"> <thead> <tr> <th colspan="5">SAMPLE LAB</th> </tr> <tr> <th>No.</th> <th>Class</th> <th>LL</th> <th>PL</th> <th>PI</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>MH</td> <td>115</td> <td>54</td> <td>61</td> </tr> <tr> <td>3</td> <td>SM</td> <td>48</td> <td>34</td> <td>14</td> </tr> <tr> <td>4</td> <td>SP</td> <td>NP</td> <td>NP</td> <td>NP</td> </tr> <tr> <td>6</td> <td>SP</td> <td>NP</td> <td>NP</td> <td>NP</td> </tr> <tr> <td>7</td> <td>SP</td> <td>NP</td> <td>NP</td> <td>NP</td> </tr> <tr> <td>9</td> <td>MH</td> <td>76</td> <td>49</td> <td>27</td> </tr> </tbody> </table>		SAMPLE LAB					No.	Class	LL	PL	PI	2	MH	115	54	61	3	SM	48	34	14	4	SP	NP	NP	NP	6	SP	NP	NP	NP	7	SP	NP	NP	NP	9	MH	76	49	27
SAMPLE LAB																																															
No.	Class	LL	PL	PI																																											
2	MH	115	54	61																																											
3	SM	48	34	14																																											
4	SP	NP	NP	NP																																											
6	SP	NP	NP	NP																																											
7	SP	NP	NP	NP																																											
9	MH	76	49	27																																											
-12.0			Bottom of Harbor 12.0'																																												
-16.0			No Recovery. 16.0'			Note: W/T=Weight of tools and 140 lb. hammer. Traces of MH material on rod.																																									
-17.7			SM-Tan-gray fine to medium grained silty sand. 17.7'		1																																										
-18.7			MH- Dark gray silt. 18.7'		2																																										
-19.4			SM- Gray fine-medium silty sand. 19.4'																																												
-22.0			SP-Gray fine to medium poorly graded sand. 22.0		3																																										
-23.5			No Recovery. 23.5																																												
			SM-Gray fine to medium grained silty sand with a trace of gravel. 25.8' to 26.5'.		4																																										
			Fine to coarse grained with gravel 25.8' to 26.5'.		5																																										
			Fine to medium grained with a trace of gravel from 26.5' to 31.0'.		6																																										
-30.0			Continued on sheet 2 Note: Soils field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".																																									

DRILLING LOG (Cont Sheet)

ELEVATION TOP OF HOLE

(1.1) MLW

Hole No.

SU-110

PROJECT

Savannah Harbor Widening

INSTALLATION

Savannah District

SHEET

OF 2 SHEETS

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVER ERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-30.0	30 b	c	d	e	JAR	f BLOWS
-31.0			SM- Continued 31.0'			8
-32.5			No Recovery. 32.			31
-34.0			SP-Gray fine to medium grained poorly graded sand. 34.0'		7	30
-35.5	35		SM-Gray fine to coarse silty sand with gravel. 35.5'		8	33
			No Recovery.			17
-38.5			38.5'			25
	40		SM-Green-gray fine silty sand.		9	38
						75
	45				10	27
						59
						32
						27
-50.5	50				11	41
			Bottom of hole at 50.5'			56
			Note: Soils field classified in accordance with the Unified Soil Classification System.		BLOWS PER FOOT Number required to drive 1 3/8" ID splitspoon w/10 lb. hammer falling 30".	

Note: Cutting
appear to be
from fine to
coarse
grained SM.

Hole No. SH-117

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah District		SHEET 1 OF 1 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT, 1 3/8" ID Splitspoon			
2. LOCATION (Coordinates or Station) Y-827383, Y-764939				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-117				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 3	UNDISTURBED 0
5. NAME OF DRILLER Tommy Scott				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL, ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 17.6				16. DATE HOLE STARTED 28 Oct 83 COMPLETED 28 Oct 83			
8. DEPTH DRILLED INTO ROCK 0.0				17. ELEVATION TOP OF HOLE 0.0 MLW			
9. TOTAL DEPTH OF HOLE 50.0				18. TOTAL CORE RECOVERY FOR BORING N/A			
				19. SIGNATURE OF INSPECTOR Ted Zielonka <i>Ted Zielonka</i>			
ELEVATION 0.0	DEPTH 0.0	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	
			River Water 0.0' to 32.4'.		JAW	BLOWS	
	30		Bottom of Harbor 32.4'			Note: Scale change at 30.0'.	
						SAMPLE LAB	
						No. Class LL PL PI	
						2 SM NP NP NP	
-32.4			No Recovery. 33.4'			Note: W/T=Weight of w/t	
-33.4			SM-Tan fine to medium grained silty sand with occasional gravel.		1	tools and 140 lb. hammer.	
	35		CH stringer at 36.3'.			Cuttings appear to be from fine to medium grained-silty sand.	
			Color change to gray at 37.9'. 39.5'		2	8 11 45	
-39.5	40		No Recovery.			60	
						25	
	45					20	
-45.5						19	
			SM-Gray fine to medium grained silty sand. 47.0'		3	25	
-47.0			No Recovery.			30	
	50					35	
-50.0			Bottom of Hole at 50.0'				
			Note: Soils field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/ hammer falling 30".	

Hole No. SH-118

DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 2 SHEETS	
1. PROJECT		South Atlantic		Savannah District			
2. LOCATION (Coordinates or Station)		Savannah Harbor Widening		10. SIZE AND TYPE OF BIT 1 3/8" ID Splitspoon			
3. DRILLING AGENCY		X-819840, Y-773914		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
4. HOLE NO. (As shown on drawing title and file number)		SH-118		12. MANUFACTURER'S DESIGNATION OF DRILL		MLW	
5. NAME OF DRILLER		Tommy Scott		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 8 UNDISTURBED 0	
6. DIRECTION OF HOLE		☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES		N/A	
7. THICKNESS OF OVERBURDEN		36.0		15. ELEVATION GROUND WATER		N/A	
8. DEPTH DRILLED INTO ROCK		0.0		16. DATE HOLE		STARTED 29 Oct 83 COMPLETED 29 Oct 83	
9. TOTAL DEPTH OF HOLE		51.0		17. ELEVATION TOP OF HOLE		0.0 MLW	
				18. TOTAL CORE RECOVERY FOR BORING		N/A	
				19. SIGNATURE OF INSPECTOR		Ted Zielonka	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) BLOWS	
0.0	0.0						
			River Water 0.0' to 15.0'			Note: Scale change 15.0'	
-15.0	15		Bottom of Harbor 15.0'				
			SM-Gray fine to medium grained silty sand.		1	3	
						8	
	20		Light gray with organics below 19.5'		2	12	
						49	
	25		Gray fine to coarse silty sand with some gravel below 24.0'		3	75	
						69	
	30		Occasional gravel below 28.5		4	60	
						61	
	35		SP-Light gray fine to coarse grained poorly graded sand with some gravel.		5	50	
						31	
	40					49	
						52	
						47	
						77	
						31	
						38	
						79	
			Continued on sheet 2				
			Note: Soils field classified in accordance with the Unified Soil Classification System.				
						BLOWS PER FOOT	
						Number required to drive 1 3/8" ID splitspoon w/14 lb. hammer falling 30".	

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE 0.0 MLW		Hole No. SH-118		
PROJECT Savannah Harbor Widening		INSTALLATION Savannah District		SHEET 2 OF 2 SHEETS		
ELEVATION -40a 0	DEPTH 40b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			SP- (continued) With occasional gravel below 40.5'.		JAR	BLOWS
					6	22
						49
-45.0	45		45.0'			61
			SM- Green-gray fine to coarse silty sand with gravel.		7	77
						89
						91
-51.0	50		With occasional gravel below 49.5'.		8	42
			Bottom of Hole at 51.0'			
			Note: Soils field classified in accordance with the Unified Soil Classification System.			
						BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".

DRILLING LOG		DIVISION Sr Atlantic		INSTALLATION Savani District		Hole No. SH-119		SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID Splitspoon					
2. LOCATION (Coordinates or Station) X-820257, Y-773180				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW					
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314					
4. HOLE NO. (As shown on drawing title and file number) SH-119				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 9		UNDISTURBED 0	
5. NAME OF DRILLER Tommy Scott				14. TOTAL NUMBER CORE BOXES 0					
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A					
7. THICKNESS OF OVERBURDEN 41.0				16. DATE HOLE		STARTED 30 Oct 83		COMPLETED 30 Oct 83	
8. DEPTH DRILLED INTO ROCK 0.0				17. ELEVATION TOP OF HOLE 0.0 MLW					
9. TOTAL DEPTH OF HOLE 51.0				18. TOTAL CORE RECOVERY FOR BORING N/A %					
				19. SIGNATURE OF INSPECTOR Ted Zielonka					
ELEVATION 0.0	DEPTH 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE JACK f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g			
			River Water 0.0' to 10.0'.			SAMPLE LAB No. Class LL PL PI 3 SP NP NP NP 6 SP NP NP NP 8 MH 31 51 30			
			Bottom of Harbor 10.0'						
			SM- Greenish-gray fine to medium grained silty sand with gravel.		1	18			
						21			
					2	17			
						18			
						19			
						17			
			With occasional gravel below 21.0'.		3	18			
						27			
						33			
			Color change to gray.		4	31			
						29			
						33			
						31			
			Continued on sheet 2						
			Note: Soils field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".			

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No.		
PROJECT		INSTALLATION		SHEET		
Savannah Harbor Widening		Savannah District		2		
OF 2 SHEETS						
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-30.0	30 b	c	d	e	JAR	BLOWS
			SM-Continued		5	35
						30
-34.5	35		34.5'			29
			SP-Light gray fine to medium grained poorly graded sand.		6	20
						27
	40					21
			Fine to coarse grained below 40.5'.		7	39
-43.5	45		43.5'			53
			SM-Green-gray fine grained silty sand with occasional gravel.		8	100/0.8
						79
						61
	50					82
-50.0					9	91
			Bottom of Hole at 51.0'			
			Note: Soils field classified in accordance with the Unified Soil Classification System.			
						BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/10 lb. hammer falling 30".

Hole No. SH-120

DRILLING LOG

DIVISION
South AtlanticINSTALLATION
Savannah DistrictSHEET 1
OF 2 SHEETS1. PROJECT
Savannah Harbor Widening2. LOCATION (Coordinates or Station)
X-820791 Y-7723203. DRILLING AGENCY
Savannah District4. HOLE NO. (As shown on drawing title and file number)
SH-1205. NAME OF DRILLER
Tommy Scott6. DIRECTION OF HOLE
☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.

7. THICKNESS OF OVERBURDEN 44.4'

8. DEPTH DRILLED INTO ROCK 0.0'

9. TOTAL DEPTH OF HOLE 50.5'

10. SIZE AND TYPE OF BIT 1 3/8" Splitspoon

11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
MLW 4X5 1/2" core bbl w/ carbide bit12. MANUFACTURER'S DESIGNATION OF DRILL
Failing 31113. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN
DISTURBED 8 UNDISTURBED 0

14. TOTAL NUMBER CORE BOXES 1

15. ELEVATION GROUND WATER N/A

16. DATE HOLE STARTED 2 Nov 1984 COMPLETED 7 Nov 1984

17. ELEVATION TOP OF HOLE 0.0' MLW

18. TOTAL CORE RECOVERY FOR BORING 72.3 %

19. SIGNATURE OF INSPECTOR
Thaddeus J. Zielonka, Jr. Geologist

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
0.0'	0 b	c	d	e	JAR	g
			River water 0.0' to 6.1'			SAMPLE LAB No. Class LL PL PI 2 SP NP NP NP 5 SP NP NP NP
-6.1'	5		Bottom of Harbor 6.1'			
	10		SM-Tan fine to med. grain- ed silty sand w/fine gravel.		1	16
	15		Change to grey fine to coarse silty sand with- out gravel at 12.5'.			23
	20					12
	25		With fine gravel again below 22.5'			13
	30		Without gravel below 28.5'			11
-29.5'			SP Con't. 29.5'		2	NOTE: W/T= Weight of tools and 140 lb. hammer. w/t
-30.0'			(Con't. on sht. 2)			3
			NOTE: Soils field classifi- cation in accordance with the Unified Soil Classifica- tion System			28
						10
						15
						35
						31
						33
						31
					4	13
						BLOWS PER FOOT: Number required to drive 1 3/8" ID split- spoon w/140 lb. hammer

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		0.0' MLW		Hole No. SH-120	
PROJECT			INSTALLATION			SHEET 2	
Savannah Harbor Widening			Savannah District			OF 2 SHEETS	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
-30.0'	30		d	e	JAR	B	BLOWS
			(SP - Con't.) Tan Med. to coarse poorly graded sand w/gravel.		5		36
			Change to light grey fine to med. grained without gravel at 31.0'. 34.5'		6	NOTE: Scale change @ 40.0'	18
-34.5	35		No Recovery				24
							23
-39.3							24
							23
	40		SM-Green-grey fine silty sand.	REC 83.9%		Pull #1 From 39.3' to 42.2' Run 3.1' Rec 2.6' C.L. 0.5' U.L. 2.2' 100% Green-grey ret. CD 42.4'	
	42				7		
				REC 24.1%	8	Pull #2 From 42.4' to 45.3' Run 2.9' Rec 0.7' C.L. 2.2' U.L. 2.2' 100% Green-grey ret. Hole blocked No tape depth	45.3'
	44						
	46			REC 92.3%		Pull #3 From 43.5' to 50.5' Run 5.2' Rec 4.8' C.L. 0.4' U.L. 0.4' 100% Green-grey ret.	
	48						
-50.5	50		Bottom of Hole 50.5'			CD 50.5'	
						NOTE: Two sections of core waxed for lab. Sample #1 47.7'-48.5' Sample #2 48.9'-50.1'	

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah District		SHEET OF 2 1 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID Splitspoon			
2. LOCATION (Coordinates or Station) X-821360, Y-771555				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and title number) SH-121		5. NAME OF DRILLER Tommy Scott		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES	
				DISTURBED /		UNDISTURBED 0	
				15. ELEVATION GROUND WATER N/A			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				16. DATE HOLE 8 Nov 83		17. ELEVATION TOP OF HOLE 0.0 MLW	
7. THICKNESS OF OVERBURDEN 34.0				18. TOTAL CORE RECOVERY FOR BORING N/A %			
8. DEPTH DRILLED INTO ROCK 0.0				19. SIGNATURE OF INSPECTOR Ted Zielonka			
9. TOTAL DEPTH OF HOLE 50.0							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0	0.0				JAR	9 BLOWS	
			River Water 0.0' to 16.0'.			Note: Scale change at 15.0'.	
	15		Bottom of Harbor 16.0'.				
-16.0			SM-Tan fine to medium grained silty sand with occasional gravel.		1	Note: W/T=Weight of w/t tools and 140 lb. hammer. 12	
	20		Gray with wood chips and no gravel below 20.0'.			SAMPLE LAB 12	
			No wood chips below 23.0'.		2	No. Class LL PL PT 15	
	25					2 SP NP NP NP 14	
						4 SP NP NP NP 9	
	25					5 SM-H 55 32 23 18	
	30		Fine to coarse below 29.0'.		3	22	
						22	
-33.5	35		SP-Tan fine to coarse poorly graded sand with gravel.			29	
			With occasional gravel below 36.5'.		4	23	
	40					25	
-40.0						24	
Continued on sheet 2 Note: Soils field classified in accordance with the Unified Soil Classification System.				BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/140 lb hammer falling 30".			

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE 0.0 MLW		Hole No. SH-121		
PROJECT Savannah Harbor Widening		INSTALLATION Savannah District		SHEET 2 OF 2 SHEETS		
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)
-40.0	40 b	c	d	e	JAR	R BLOWS
-40.5			SP-Continued 40.5'		5	29
			SM-Green-gray fine silty sand.		6	36
			Gray fine to coarse silty sand with fine gravel.			53
	45		Change back to green-gray fine silty sand at 42.5'.		7	35
						32
						40
-50.0	50					41
			Bottom of Hole at 50.0'			
			Note: Soils field classified in accordance with the Unified Soil Classification System.			
						BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/140 hammer falling 30".

Hole No. SH 125

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah River		SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" split spoon, 5 1/2"			
2. LOCATION (Coordinates or Station) X-825636 Y-766704				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW fishtail			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL CME-550			
4. HOLE NO. (As shown on drawing title and file number) SH-125				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 14	UNDISTURBED 0
5. NAME OF DRILLER P. Romero				14. TOTAL NUMBER CORE BOXES 0		15. ELEVATION GROUND WATER	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				16. DATE HOLE STARTED 5-10-84		COMPLETED 5-11-84	
7. THICKNESS OF OVERBURDEN 61.5'				17. ELEVATION TOP OF HOLE 10.5			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 61.5'				19. SIGNATURE OF INSPECTOR Larry Benjamin			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
10.5	0	c	d	e		g	BLOWS
9.0			SM-Black fine silty sand w/decayed wood.		1		10
			SP-Tan coarse poorly graded sand.		2	W.T. 5.0'	10
	5					Date 5-10-84	7
					3	Depth to water during drilling.	8
							6
1.5	10		MH Grey fine silty fat clay w/decayed wood.		4	W.T. 5.2'	4
						Water table reading 24 hrs after hole completed.	7
							3
							4
-3.0	15		SM-Grey fine to med. silty sand, trace of wood.		5		9
			Light green				
-6.0	20		SP-Light green med. to coarse poorly graded sand.		6	At 10.5' mixed zeogel mud & continuously drove 1.5'(18") & fishtailed 1.5'(18") to a depth of 61.5'	15
							24
							23
							25
							20
					7		18
	25		Trace of wood				10
			No wood or med. grain sizes.				29
							29
			Grey				
-10.5	30						25
Continued on sht 2							
NOTE Soils field classified in accordance with the Unified Soil Classification System.				BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/ 140 lb. hammer falling			

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No.		
PROJECT		INSTALLATION		SHEET		
Savannah Harbor Widening		Savannah River		2 OF 2 SHEETS		
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling and water level depths weathered and if mentioned)
-14.5'	30'		SP-Grey coarse poorly graded sand.			BLOWS 18
						24
						26
35					9	35
						33
						27
40			Trace of fat clay.		10	11
			No clay			14
			Trace of wood			23
			No wood			18
45					11	23
			Fine to med. grained			29
						30
50			Fine grained		12	37
						40
						19
55					13	26
						36
			Tan			35
						35
-49.5	60		ML-Green fine inorganic silt, calcareous. (Sandy silt)		14	34
-51.0			Bottom of Boring 61.5'			
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" ID split spoon w/ 140 lb. hammer falling 30".

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah River		Hole No. SH-126 SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon & 5 1/2" fishtail			
2. LOCATION (Coordinates or Station) X-825286 Y-767053				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL CME - 550			
4. HOLE NO. (As shown on drawing title and file number) SH-126				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES	
5. NAME OF DRILLER P. Roundtree				DISTURBED 17		UNDISTURBED 0	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN 60.0'				16. DATE HOLE STARTED 5-12-84		COMPLETED 5-12-84	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 10.0'			
9. TOTAL DEPTH OF HOLE 60.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR Larry Benjamin <i>Larry Benjamin</i>			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
10.0'	0'				JAR	
			SC-Black & brown fine clayey sand.		1	
7.0			Med. grained		2	
	5		MH-Green & grey fine silty fat clay.		3	
			Grey			
-0.5	10		ML-Light green fine sandy silt w/mica.		4	
-1.0					5	
	15		SP-Grey coarse poorly graded sand.		6	
						
	20				7	
						
	25				8	
			Tan			
	30				9	
-10.0						

Continued on sht 2

NOTE: Soils field classified in accordance with the Unified Soil Classification System.

BLOWS PER FOOT:

Number required to drive 1 3/8" ID splitspoon w/

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No.			
PROJECT		10.0'		SH-126			
Savannah Harbor Widening		INSTALLATION		Savannah River			
				SHEET 2 OF 2 SHEETS			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	BLOWS
-20.0'	30'	c	d	e			
			SP-Tan coarse poorly graded sand.				32
							31
	35						32
					10		32
							31
							30
-30.5	40		MH-Grey fine silty fat clay.				18
-32.0					11		9
			SP-Tan coarse poorly graded sand		12		26
	45						31
					13		35
							36
	50				14		39
			Trace of river gravel, 1/2"				36
							35
							32
	55				15		30
			No river gravel				30
-47.0			ML-Green fine inorganic silt calcareous, (sandy silt).		16		32
-50.0	60				17		68
			Bottom of Boring 60.0'				
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.				
						BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/ 140 lb. hammer falling 30".	

DRILLING LOG		DIVISION		INSTALLATION		Hole No.		SHEET	
1. PROJECT		South Atlantic		Savannah River		SH-127		1	
Savannah Harbor Widening								OF 2 SHEETS	
2. LOCATION (Coordinates or Station)				10. SIZE AND TYPE OF BIT		1 3/8" splitspoon		5 1/2"	
X-324881 Y-767364				11. DATUM FOR ELEVATION SHOWN (TBM or MLL)		MLW		11	
3. DRILLING AGENCY				12. MANUFACTURER'S DESIGNATION OF DRILL		CME-550			
Savannah District				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED		UNDISTURBED	
4. HOLE NO. (As shown on drawing title and file number)		SH-127		14. TO - NUMBER CORE BOXES		0			
5. NAME OF DRILLER		P. Rountree		15. ELEVATION GROUND WATER					
6. DIRECTION OF HOLE		☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		16. DATE HOLE		STARTED		COMPLETED	
				5-13-84		5-14-84			
7. THICKNESS OF OVERBURDEN		58.5'		17. ELEVATION TOP OF HOLE		8.4			
8. DEPTH DRILLED INTO ROCK		0.0'		18. TOTAL CORE RECOVERY FOR BORING		N/A			
9. TOTAL DEPTH OF HOLE		58.5'		19. SIGNATURE OF INSPECTOR		Larry Benjamin		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)			
8.4	0'				JAR	BLOWS			
			SM-Black & white fine silty sand.		1	5			
			Brown		2	4			
			MH-Grey fine silty fat clay w/roots.		3	1			
5.4	5					W.T. 2.5'			
						Date 5-13-84			
						Depth to water weight of hammer			
0.6	10		SP-Grey med. to coarse poorly graded sand.		4	5			
			Coarse grained			Water table reading 24 hrs. after hole completed.			
	15				5	10			
						14			
	20				6	15			
						At 9.0' mixed Zeogel mud & continuously drove 1.5'(18") & fish-tailed 1.5'(18") to a depth of 58.5'.			
	25				7	15			
						22			
						25			
						25			
-2.6	30					23			
			Continued on sht 2						
			NOTE Soils field classified in accordance with the Unified Soil Classification System.		BLOWS PER FOOT: Number required to drive 1 3/8"ID splitspoon w/ 140 lb. hammer falling 30".				

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		8.4'		Hole No.		SH-127	
PROJECT			INSTALLATION			SHEET			
Savannah Harbor Widening			Savannah River			OF 2 SHEETS			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOV. ERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)		BLOWS	
-21.6'	b 30	c	d	e					
			SP-Grey coarse poorly grad- ed sand.		8			27	
								31	
	35							29	
					9			26	
								24	
								23	
	40				10			23	
								27	
								28	
	45				11			27	
			Trace of coarse river gravel.					29	
								30	
	50							28	
			Tan no river gravel.		12			26	
								32	
			Trace of clay		13			37	
	55							34	
			No clay.					30	
					14			29	
-50.1			Bottom of Boring 58.5'						
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.				BLOWS PER FOOT: Number required to drive 1 3/8"ID splitspoon w/ 140 lb. hammer falling 30".		

DRILLING LOG		South Atlantic		Savannah River		SH-129		SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon &					
2. LOCATION (Coordinates or Station) X 820545 Y-772752				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) 5 1/2" fishtail					
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL CME-550					
4. HOLE NO. (As shown on drawing title and file number) SH-129				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 18		UNDISTURBED 0	
5. NAME OF DRILLER P. Rountree				14. TOTAL NUMBER CORE BOXES ()					
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER					
7. THICKNESS OF OVERBURDEN 60.0'				16. DATE HOLE STARTED 5-15-84 COMPLETED 5-16-84					
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 10.1'					
9. TOTAL DEPTH OF HOLE 60.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %					
				19. SIGNATURE OF INSPECTOR Larry Benjamin <i>Larry Benjamin</i>					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)			
10.1'	0'	c			1AR	BLOWS			
			SM-Tan fine silty sand, trace of roots.		1	3			
					2	2			
5.6	5		MH-Grey fine silty fat clay w/trace of coarse grains.		3	W.T. 7.0' Date 5-15-84 Depth to water during drilling.			
2.6			SP-Grey coarse poorly graded sand.		4	15			
	10		Trace of decayed wood.			11			
			No decayed wood.			19			
	15				5	17			
-6.4			SM Light grey fine to med. silty sand, trace of mica.		6	14			
	20					11			
-10.9			MH-Grey fine silty fat clay w/some sand.		7	Notes: The boring was moved 11.0' Northeast.			
-12.4			SM-Light grey fine to med. silty sand trace of mica.		8	At 9.0' mixed Zeogel mud & continuously drove 1.5'(18") & fish-tailed 1.5'(18") to a depth of 60.0'			
-15.4	25		SP-Light green & tan med. to coarse poorly graded sand.		9	12			
						17			
	30					25			
-16.9						27			
Continued on sht 2									
Note: Soils field classified in accordance with the Unified Soil Classification System.				BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/ 140 lb. hammer falling					

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No.		
PROJECT		INSTALLATION		SH 129		
Savannah Harbor Widening		Savannah River		SHEET 2 OF 2 SHEETS		
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)
-19.9'	30'	c	d	e	JAR	R BLOWS
-24.4	35		SM-Light green fine silty sand, trace of mica.		10	18
						12
						15
					11	21
						19
-36.4	40		SP-Light green med. to coarse poorly graded sand.			18
						23
					12	27
						26
						27
-39.4	45		Grey, coarse grained.			32
						35
						49
					13	43
						39
-42.4	50		SM-Grey fine to med. silty sand, trace of river gravel.			32
						36
						41
					14	52
						57
-49.9	55		SP-Grey coarse poorly graded sand.			
					15	
-49.9	60		ML-Green fine inorganic silt, calcareous. (Sandy silt)			
					16	
					17	
-49.9	60		Bottom of boring 60.0'		18	
			Note: Soils field classified in accordance with the Unified Soil Classification System.		BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, Ga.		Hole No. SH-130	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 6"		SHEET 1 OF 2 SHEETS	
2. LOCATION (Coordinates or Station) X=819365 Y=775500				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) fishtail MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-130				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 16	
5. NAME OF DRILLER L. Lucas				14. TOTAL NUMBER CORE BOXES		UNDISTURBED 0	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. EL ATION GROUND WATER See Remarks			
7. THICKNESS OF OVERBURDEN 57.0'				16. DATE HOLE		STARTED 2 Apr 1987	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 6.6'		COMPLETED 4 Apr 1987	
9. TOTAL DEPTH OF HOLE 57.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR T. Nicholson (0-30') J. Arthur (30-57')			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
6.6'	0'				JAR	BLOWS	
5.1'			CH-Brown & greyish green fat clay, trace of fine sand, silt & roots, wet.		1	Boring drilled in the tidal zone. No ground water level established. Began using Revert drilling mud at 0.0'. Grouted hole after completion of boring.	
3.6'			Greyish green.		2		
2.1'			MH-Greyish green fat silt, trace of mica, wet.		3		
0.6'			SC-Greenish grey clayey fine sand, trace of fine gravel, wet.		4		
-0.9'			Fine to med. grained.		5		
-2.4'			Some thick fat clay layers.		6		
-3.9'			Fine grained.		7		
-5.4'			CH-Brown fat clay, wet.		8		
-8.4'			SP-Tan poorly graded fine sand, trace of mica, wet.		9		
			Fine to med. grained, trace of silt.				
-14.4'	20'		Greenish tan.			Weight of hammer drove splitspoon from 10.5' to 12.0'. LAB CLASSIFICATION No. Class. LL PL PI 2 CH 79 30 48 9 SP-SM NP NP NP 13 CH 91 34 57 15 CH - - -	
-15.9'			Tan				
-23.4'	30'						
Continued on sht #2 -							
NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.						BLOWS PER FOOT: Number required to drive 1 3/8" ID split-spoon w/140 lb. hammer	

DRILLING LOG (Cont Sheet)

ELEVATION TOP OF HOLE

6.6' MLW

Hole No. SH-130

PROJECT

Savannah Harbor Widening

INSTALLATION

Savannah, Ga.

SHEET 2

OF 2 SHEETS

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	BLOWS
-23.4'	30'	c	d	e			
			SP-Tan poorly graded fine to med. sand, trace of silt & mica, wet.		10		44
							35
	35				11		33
							28
-30.9'			Fine grained, no silt.				34
							30
-33.9'	40		Fine to med. grained, trace of coarse gravel.		12		25
-35.4'							30
-36.9'			Med. grained, trace of clay in several thin grey layers, no gravel.		13		26
-38.4'	45						50
			CL-Greyish green lean clay, some fine sand, silt & trace of mica, damp.				33
							55
	50		Trace of fine sand, silt & mica, several very thin grey layers of silt & mica.		14		75
-44.4'							77
-45.9'			Some silt & mica, trace of fine sand.		15		50
							80
	55		Some fine sand, trace of silt & mica, no grey layers.		16		100/0.8
-50.4'							75
			Bottom of Boring 57.0'				

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, Ga.		Hole No. SH-131 SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 3/8" splitspoon, 6"			
2. LOCATION (Coordinates or Station) X=819740 Y=774506				11. DATUM FOR ELEVATION SHOWN (BM, ASD) MLW spiral auger & fishtail			
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL CME 45			
4. HOLE NO. (As shown on drawing title and file number) SH-131				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 21 UNDISTURBED 1	
5. NAME OF DRILLER J. Butts				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER See Remarks			
7. THICKNESS OF OVERBURDEN 70.5'				16. DATE HOLE		STARTED 9 Apr 1987 COMPLETED 10 Apr 1987	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 21.0'			
9. TOTAL DEPTH OF HOLE 70.5'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR James Arthur, Geologist			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
21.0'	0'						BLOWS
18.0'			SM-Light brown, silty, fine to med. sand, dry.		1	Water level 13.5' depth to water during drilling.	6
16.5'			SC-Light brown clayey fine sand, trace of coarse gravel & mica, damp.		2		9
	5		With several thin layers of grey clay.		3	No 24 hour water level reading taken. Grouted hole after completion of boring.	9
13.5'			Fine to med. grained, no gravel or clay layers.				8
12.0'			Fine grained.		4	Began using Revert drilling mud at 18.0'.	3
10.5'	10		Several very thin grey clay layers, trace of fine gravel.			UNDISTURBED	4
9.0'			Trace of fine to coarse gravel.			Top of hole elev. 22.1' MLW. Moved rig up slope 6.0', S67°E to elev. 22.1' MLW.	8
7.5'			SM-Tan & grey silty fine sand, trace of mica & clay, wet.		5	Cleaned out hole to 49.0' w/ 6" fishtail & Revert mud. Pushed 5" shelby tube 1.5' to refusal at 50.5'.	6
6.0'	15		Greenish grey, trace of wood.		6	Recovered 0.8' sample. Jar sample taken from top & bottom of tube. Attempted second shelby tube sampling from 50.5' to 52.5' but got no recovery. Grouted hole.	3
4.5'			SC-Greyish green & brown clayey fine sand, trace of roots & mica, damp.		7		3
3.0'			CH-Grey fat clay, some wood, trace of mica & fine sand, damp.		8		2
1.5'	20		OH-Dark greyish brown organic clay.		9		3
-1.5'			CH-Dark greyish brown fat clay, some wood, trace of fine sand & mica, damp.		10		26
-4.5'	25		Trace of wood.				28
-6.0'			SP-Grey & tan poorly graded, fine to med. sand, trace of silt, clay & mica, wet.				29
-7.5'			Greyish tan, med. grained, no clay.				
-9.0'	30		Trace of clay.				
Continued on sht 2				BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/ 140 lb. hammer falling			

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		21.0' MLW		Hole No. SH-131	
PROJECT			INSTALLATION			SHEET 2 OF 2 SHEETS	
Savannah Harbor Widening			Savannah, Ga.				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	BLOWS
-9.0'	30b	c	d	e			
-10.5'			SP-Greyish tan, poorly graded, fine to med. sand, trace of clay, mica & wood, wet.		11		25
			Fine grained, no clay.				27
-13.5'	35		SM-Greyish tan silty fine to med. sand, trace of mica, wet.		12		25
			Trace of clay & fine gravel.				23
-16.5'			No clay or gravel.				26
-18.0'			Trace of clay.				22
-19.5'	40		Some grey streaks, no clay.		13		28
-21.0'			Fine grained.				28
			SC-Greyish green, clayey, fine sand, trace of wood & mica, wet.		14		27
-25.5'	45		CL-Greyish green, lean clay, some fine sand, silt & trace of mica, damp. See remarks.		15		25
-27.0'			SP-Light greyish tan & white, poorly graded, fine to med. sand, trace of mica, wet.		16		31
-28.5'	50		Fine grained.		17		8
			Light greyish tan, fine to med. grained.				0
-31.5'			Trace of fine gravel.		18		4
-33.0'	55		CL-Dark greyish green, lean clay, some fine sand & silt, trace of mica, damp.		19		41
			Trace of fine sand & silt.				54
-36.0'	60				20		54
-37.5'							59
-39.0'	65						71
							84
-42.0'							43
							37
	70				21		35
							30
							27
-49.5'							33
			Bottom of Boring @ 70.5'				

DRILLING LOG		DIVISION		INSTALLATION		TITLE NO.	
Savannah District		Savannah, Ga.		Savannah, Ga.		SH-132	
1. PROJECT		Savannah Harbor Widening		10. SIZE AND TYPE OF BIT		1 3/8" splitspoon, 6" spiral	
2. LOCATION (Coordinates or Station)		X=820165 Y=773504		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		MLW auger & fishtail	
3. DRILLING AGENCY		Savannah District		12. MANUFACTURER'S DESIGNATION OF DRILL		CME 550	
4. HOLE NO. (As shown on drawing title and file number)		SH-132		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 22 UNDISTURBED 0	
5. NAME OF DRILLER		L. Lucas		14. TOTAL NUMBER CORE BOXES		0	
6. DIRECTION OF HOLE		☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER		See Remarks	
7. THICKNESS OF OVERBURDEN		70.5'		16. DATE HOLE		STARTED 6 Apr 1987 COMPLETED 7 Apr 1987	
8. DEPTH DRILLED INTO ROCK		0.0'		17. ELEVATION TOP OF HOLE		20.8'	
9. TOTAL DEPTH OF HOLE		70.5'		18. TOTAL CORE RECOVERY FOR BORING		N/A	
				19. SIGNATURE OF INSPECTOR		James Arthur, Geologist	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	BLOWS
20.8'	0'	c					
19.3'			SM-Light brown silty fine to med. sand, trace of fine gravel & mica, damp.		1	Blow count obtained by use of automatic hammer.	6
17.8'			Light brown & tan, trace of wood.				16
14.8'	5'		Trace of clay in several thin clayey layers.		2	Water level 12.0' depth to water during drilling.	10
13.3'			Light brown, fine grained, no wood, gravel or clay.				11
11.8'			Trace of fine gravel & clay in several very thin layers.		3	No 24 hour water level reading taken. Grouted hole after completion of boring.	8
10.3'	10'		Trace of fine to coarse gravel, no clay.				9
8.8'			No gravel.				5
7.3'			Wet.		4	Began using Revert mud at 18.0'.	5
5.8'	15'		SC-Brown clayey fine to med. sand, trace of fine gravel & mica, wet.			LAB CLASSIFICATION	
2.8'			Grey & brown, med. grained.		5	No. Class. LL PL PI	7
1.3'			CH-Brown & grey fat clay, some fine sand in several thick layers, trace of roots & mica, damp.			5 MH 98 59 39	3
-0.2'	20'		Trace of sand.			8 SP-SM NP NP NP	6
-1.7'			Dark grey fat clay, trace of mica, damp.		6	12 MH 165 87 78	7
-3.2'	25'		Some fine sand in thick layer from 23.6' to 24.0'			14 SM NP NP NP	4
-6.2'			SM-Greyish tan silty fine sand, trace of mica & clay, wet.		7	17 SP-SM NP NP NP	5
-7.7'			Trace of wood.			20 CH 107 42 65	15
-9.2'	30'		No clay.		8		15
			Continued on sht 2				21
							22
							24

NOTE: Soils visually field classified in

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		20.8' MLW		Hole No.		SH-132	
PROJECT			INSTALLATION			SHEET 2		OF 2 SHEETS	
Savannah Harbor Widening			Savannah, Ga.						
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) f BLOWS			
-9.2'	30'	c							
-10.7'			SM-Greyish tan silty fine sand, trace of mica, wet.			20			
-12.2'			Grey.			20			
-13.7'			Trace of wood. see remarks		9	33.0' to 34.5'-Very little splitspoon recovery.			
	35		SP-Greyish tan poorly graded fine to med. sand, trace of silt & mica, wet.		10	16			
-16.7'			SM-Grey silty fine to med. sand, trace of mica, wet.		11	16			
-18.2'			CH-Dark brown & light grey fat clay, some organics, damp.		12	15			
-19.7'	40		Light grey fat clay, trace of mica, wood & coarse gravel.			11			
-21.2'			Trace of fine sand & mica, no wood or gravel.		13	3			
-22.7'			SC-Grey clayey fine sand, trace of silt & mica, damp.		14	6			
-24.2'	45		SM-Grey silty fine sand, trace of clay & mica, wet.		15	3			
-25.7'			SP-Greyish tan poorly graded fine sand, trace of silt & mica, few thin grey silty layers, wet.		16	18			
	50		Trace of wood.			15			
			No wood.			29			
-33.2'	55		Fine to med. grained, trace of fine gravel.		17	31			
-36.2'			Med. to coarse grained, trace of clay in a very thin layer of green clay.			32			
-37.7'			CL-Dark greyish green lean clay, some silt & trace of fine sand & mica, damp.		18	26			
-39.2'	60		Some fine sand & several very thin grey layers of silt & fine sand.			24			
-40.7'					19	20			
					20	31			
-45.2'	65					36			
					21	22			
						22			
-49.7'	70				22	29			
						25			
						28			
						16			
						22			
			Bottom of Boring 70.5'			22			

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, Ga.		HOLE NO. SH-133		SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 6"					
2. LOCATION (Coordinates or Station) X=825260 Y=767125				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW				spiral auger & fishtail	
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Falling 314					
4. HOLE NO. (As shown on drawing title and title block)				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN				DISTURBED UNDISTURBED	
5. NAME OF DRILLER J. Butts				14. TOTAL NUMBER OF CORE BLANKS					
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER See Remarks					
7. THICKNESS OF OVERBURDEN 70.5'				16. DATE HOLE STARTED 18 Mar 1987 COMPLETED 19 Mar 1987					
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 20.5' MLW					
9. TOTAL DEPTH OF HOLE 70.5'				18. TOTAL CORE RECOVERY FOR BORING N/A %					
				19. SIGNATURE OF INSPECTOR James Arthur, Geologist					

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	BLOWS
20.5'					JAR		
20.3'			Asphalt	0.2'	1		
19.0'			GM-Brown & light brown to orange silty fine to coarse gravel, some fine to med. sand dry.		2	Water level 14.7' depth to water during drilling.	12
17.5'			SP-Orange poorly graded fine to med. sand, trace of silt & fine gravel, dry.		3		7
	5		Damp.			No 24 hour water level taken. Grouted hole after completion of boring.	6
3.0'			Light brown to orange, med grained.				12
11.5'			Trace of wood.				7
10.0'	10		Light brown, thick layer of fat clay, trace of fine gravel.		4		17
8.5'			CH-Brown & grey fat clay, trace of fine to med. sand, damp.		5		10
7.0'			Some med. to coarse sand in thick layers, trace of decayed wood.		6		4
5.8'			Wet.		7		3
5.5'	15		SC-Brown & grey clayey, med. to coarse sand, trace of fine gravel, wet.		8	Began using Revert drilling mud @ 16.5'.	10
4.0'			CH-Greyish brown fat clay, some silty fine sand layers, trace of roots, mica & fine gravel damp.		9		1
2.5'			No sand, roots or gravel.			LAB CLASSIFICATION	2
1.0'	20		Dark greenish grey, some roots & thin to thick layers of silty fine sand.			No. Class LL PL PI	5
-0.5'			SM-Tannish grey silty fine to med. sand, trace of mica, wet.			7 SM-H 93 51 42	8
-2.0'			SP-Greyish tan poorly graded fine to med. sand, trace of silt & mica, wet.		10	8 SM-SC - - -	14
-3.5'	25		Few grey streaks, trace of decayed wood.		11	11 SP NP NP NP	23
-5.0'			No wood.			16 SP NP NP NP	16
-9.5'	30				12	20 SP NP NP NP	24

Continued on shc 2

NOTE: Soils visually field classified

BLOWS PER FOOT:
Number required to drive 1 3/8" ID splitspoon w/ 140 lb. hammer falling 30".

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		20.5' MLW		Hole No.		SH-133	
PROJECT Savannah Harbor Widening				INSTALLATION Savannah, Ca.				SHEET OF 2 SHEETS	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVER- ERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)		BLOWS	
-9.5'	30'	c	d	e	JAR	g			
11.0'			SP-Greyish tan poorly graded fine to med.sand,few grey streaks,trace of silt & mica, wet.					27	
-12.5'					13			27	
-14.0'	35		Medium grained.					26	
-15.5'			Fine to med.grained,few thin clayey layers,trace of de- cayed wood.		14			27	
-18.5'			No clayey layers or wood.					33	
-21.5'	40		Few very thin clayey layers.					30	
-23.0'			Fine grained,no clay.		15			47	
			Few very thin grey silty layers.					31	
	45		Fine to med.grained,no silty layers.					30	
			Few thin grey silty layers.		16	NOTE: 64.5'to 66.0'No splitspoon drive taken. Boring was inadvertantly cleaned out to 66.0'after last splitspoon drive to 64.5'.		29	
-27.0'			Fine grained,no silty layers.					33	
-29.0'	50		Fine to med.grained.					29	
			Few thin grey silty layers.		17			22	
-32.0'			Med.to coarse grained,no silty layers.					37	
-33.5'			Trace of fine gravel.					35	
-35.0'	55		No gravel.		18			29	
-36.5'			Fine to med.grained,trace of fine gravel.					31	
-38.0'			Med.grained.		19			27	
	60		See Remarks.					38	
-41.0'			SP-Greyish tan poorly graded fine to med.sand,few grey streaks,trace of silt,mica & fine gravel,wet.					24	
-42.5'					20			27	
-44.0'	65							33	
-45.5'			Tan to greyish tan,med.to coarse grained,some fine gravel.		21			37	
								See note	
-48.5'								37	
-50.0'	70				22			35	
			Bottom of Boring 70.5'					41	

NOTE:
64.5' to 66.0' No
split spoon drive
taken. Boring was
inadvertantly cleaned
out to 66.0' after
last split spoon drive
to 64.5'.

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, Ga.		HOLE NO. SH-134		SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 3/8" splitspoon, 6" spiral					
2. LOCATION (Coordinates or Station) X=825635 Y=766770				11. DATUM FOR ELEVATION SHOWN (FSM or MSL) MLW auger & fishtail					
3. DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314					
4. HOLE NO. (As shown on drawing title and file number) SH-134				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 19		UNDISTURBED 0	
5. NAME OF DRILLER J. Butts				14. TOTAL NUMBER CORE BOXES 0					
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER See remarks					
7. THICKNESS OF OVERBURDEN 58.5'				16. DATE HOLE STARTED 19 Mar 1987		COMPLETED 20 Mar 1987			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 8.1'					
9. TOTAL DEPTH OF HOLE 58.5'				18. TOTAL CORE RECOVERY FOR BORING N/A %					
				19. SIGNATURE OF INSPECTOR James Arthur, Geologist					
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)			
8.1'	0					BLOWS			
6.6'			SM-Brown & orange silty fine to med. sand, some roots, damp.		1				
5.1'			SP-Orange poorly graded fine to med. sand, trace of roots, damp.		2	Water level 3.0' depth to water during drilling.			
3.6'					3				
2.1'	5		SM-Light brown & orange silty med. to coarse sand, trace of fine gravel, wet. See remarks.			3.0' to 4.5' No split-spoon recovery. Sample #3 taken from auger.			
0.6'			Light brown & grey.						
-0.9'			Grey, fine to med. grained, no gravel.		4				
-2.4'	10		Med. to coarse grained, trace of fine gravel.		5	Grouted hole after completion of boring. No 24 hour water level reading taken.			
-3.9'			CH-Greyish brown fat clay, some roots, trace of wood, damp.		6				
-5.4'			Greenish grey, trace of roots & mica, no wood.			Began using Revert drilling mud at 9.0'.			
-6.9'	15		No roots.		7				
-8.4'			Some fine silty sand @ 14.7'.			10.5' to 12.0' Weight of hammer drove splitspoon.			
-9.9'			SM-Greenish grey silty fine sand, trace of clay & mica, wet.		8				
-11.4'	20		No recovery, see remarks.		9				
-12.9'			SM-Greenish grey silty fine to med. sand, trace of clay & mica, wet.			16.5' to 18.0' No splitspoon recovery. Wash return had fine sand & clay particles.			
-14.4'			SP-Greyish tan poorly graded fine to med. sand, trace of silt, mica & wood, wet.		10				
-15.9'	25		No wood.						
-18.9'			Few thin grey silty layers.						
-20.4'			SM-Tannish grey silty med. sand, trace of mica, wet.						
-21.9'	30		Fine to med. grained, some wood, trace of clay & leaves.		11				
			SP-Greyish tan poorly graded med. sand, few very thin grey layers, trace of silt & mica, wet.						
						BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/ 140 lb. hammer falling 30".			

Continued on sht 2

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No.		
PROJECT Savannah Harbor Widening		INSTALLATION Savannah, Ga.		SH-134		
SHEET OF 2 SHEETS		SHEET OF 2 SHEETS				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOV. ERY	BOX OR SAMPLE NO JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
		c	d	e		g
-21.9'	30'					
-23.4'			SP-Greyish tan poorly graded fine to med.sand,trace of silt & mica,wet.		12	
-24.9'						
-26.4'			SC-Grey clayey fine sand,trace of mica & wood,wet.		13	
-27.9'	35					
-29.4'			SP-Tan & greyish tan poorly graded fine to med.sand,trace of silt & mica,wet.			
-29.4'			Greyish tan.		14	
-32.4'	40		Fine grained,some wood,trace of clay.			
-33.9'			No wood or clay.			
-35.4'			Fine to med.grained.		15	
-36.9'	45		Med. grained,trace of fine gravel.			
-38.4'			Med.to coarse grained.			
-39.9'			Grey,large piece of wood at 45.0',few thick dark grey layers.		16	
-41.4'	50					
-42.9'			Greyish tan,no dark grey layers.			
-44.4'			Fine to med.grained.		17	
-45.9'			No gravel.			
-47.4'	55		Trace of fine gravel,several very thin grey clayey layers.		18	
-47.4'			Several thin grey fat clay layers at 53.0'			
-50.4'			No grey clay layers.		19	
	60		Med.grained.			
			Bottom of Boring @ 58.5'			

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah, Ga.		File No. SH-135
1. PROJECT Savannah Harbor Widening		10. SIZE AND TYPE OF BIT 3/8" splitspoon, 6"		SHEET 1	
2. LOCATION (Coordinates or Station) X=826560 Y=765908		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW spiral auger & fishtail		OF 2 SHEETS	
3. DRILLING AGENCY Savannah District		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-135		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 18	UNDISTURBED (0)
5. NAME OF DRILLER J. Butts		14. TOTAL NUMBER CORE BOXES (0)			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		15. EL. ATION GROUND WATER See remarks			
7. THICKNESS OF OVERBURDEN 63.0'		16. DATE HOLE		STARTED 20 March 1987	COMPLETED 21 March 1987
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 12.1'			
9. TOTAL DEPTH OF HOLE 63.0'		18. TOTAL CORE RECOVERY FOR BORING N/A %			
19. SIGNATURE OF INSPECTOR James Arthur, Geologist					

ELEVATION 12.1'	DEPTH 0 b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
10.6'			SP-Light brown to orange poorly graded med. sand, trace of silt & roots, dry.		1	Water level 4.5'	2
9.1'			Damp.			depth to water during drilling.	6
7.6'			Fine to med. grained, trace of wood.		2	Grouted hole after completion of boring.	6
6.1'	5		No wood, wet.			No 24 hr. water level reading made.	5
4.6'			Brown & orange, med. grain- ed.			7.5' -9.0'-No split- spoon recovery-	3
3.1'			Grey, trace of fine gravel & mica. (see remarks)		3	examined sample from auger.	2
1.6'	10		CH-Greyish brown fat clay, some roots, trace of fine sand & mica, damp.			Began using Revert drilling mud @ 9.0'.	1
0.1'			Greenish grey, trace of roots.		4	LAB CLASSIFICATION	1
-1.4'	15		Several thin layers of fine sand.			No. Class LL PL PI	5
			Several very thin layers of fine to med. sand.		5	3 CH 172 60 122	17
			SM-Greyish tan silty, fine to med. sand, trace of mica, several thin clayey layers wet.		6	5 SC NP NP NP	15
					9	6 SM 43 31 12	9
					13	9 SP NP NP NP	2
					16	13 SM NP NP NP	2
						16 SP NP NP NP	0
			Greenish grey & tan, several thick layers of grey fat clay.		6	24.0' to 25.5'-Weight of hammer drove split- spoon.	7
	25		SC-Grey & tan clayey fine sand, trace of mica & silt, wet.		7		9
			CH-Dark greenish grey fat clay, trace of fine sand & mica, damp.		8		17
	30		Some fine to med. sand @ 26.7'.				
			SP-Greyish tan, poorly graded fine to med. sand, trace of				

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No.			
PROJECT		12.1' MLW		SH-135			
Savannah Harbor Widening		INSTALLATION		SHEET 2 OF 2 SHEETS			
Savannah, Ga.							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	BLOWS
	30'	c	d	e			
			SP-Greyish tan poorly graded fine to med.sand,trace of silt & mica, wet.				24
-22.4'					9		12
-23.9'	35		Fine grained.				30
			Fine to med.grained.		10		25
							25
-26.9'			Fine Grained.				18
-28.4'	40		Fine to med. grained.		11		25
							27
-31.4'							15
-32.9'	45		Several very thin grey clayey layers.				29
-34.4'			No clay.		12		27
-35.9'			SM-Tannish grey,silty, fine to med.sand,trace of clay & mica,wet.		13		19
					14		27
-38.9'	50		SP-Greyish tan, poorly graded fine to med.sand,trace of silt & mica,wet.				15
-40.4'							21
-41.9'			Med.grained,trace of clay in several thin grey layers.		15		26
-43.4'	55		Trace of fine gravel.				24
			Trace of fine to coarse gravel.		16		22
-46.4'							26
	60		Med. to coarse grained, trace of fine gravel.		17		28
			SM-Dark greyish green,silty fine sand,trace of clay & mica,damp.				25
-50.9'					18		51
	65		Bottom of Boring @ 63.0'				
NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.				BLOWS PER FOOT: Number required to drive 1 3/8"ID solitspoon w/ 140 lb. hammer falling 30".			

DRILLING LOG

DIVISION

South Atlantic

INSTALLATION

Savannah, Ga.

FILE NO. SU-136

1. PROJECT

Savannah Harbor Widening

2. LOCATION (Coordinates or Station)

-830550 Y=762100

3. DRILLING AGENCY

Savannah District

4. HOLE NO. (As shown on drawing title and file number)

SH-136

5. NAME OF DRILLER

L. Lucas

6. DIRECTION OF HOLE

☒ VERTICAL ☐ INCLINED

DEG. FROM VERT.

7. THICKNESS OF OVERBURDEN

58.1'

8. DEPTH DRILLED INTO ROCK

0.0'

9. TOTAL DEPTH OF HOLE

58.1'

10. SIZE AND TYPE OF BIT

3/8" splitspoon, 6" spiral

11. DAY ON FOR ELEVATION SHOWN (TBM or BMT)

NILW

12. MANUFACTURER & DESIGNATION OF DRILL

Falling 115

13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN

DISTURBED

UNDISTURBED

14. TOTAL NUMBER CORE BOXES

0

15. ELEVATION GROUND WATER

See remarks

16. DATE HOLE

STARTED

28 Mar 1987

COMPLETED

30 Mar 1987

17. ELEVATION TOP OF HOLE

9.2'

18. TOTAL CORE RECOVERY FOR BORING

N/A

19. SIGNATURE OF INSPECTOR

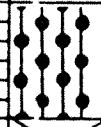
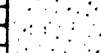
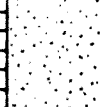
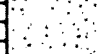
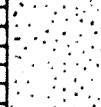
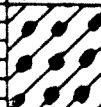
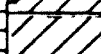
James Arthur, Geologist

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	BLOWS
7.7'	0		SM-Light brown silty fine to med.sand, trace of clay, mica, roots & wood, damp.		1	Water level 3.0' depth to water during drilling.	5
6.2'			No wood or roots, moist.				5
4.7'	5		No clay, wet.				16
1.7'			Light brown & grey.		2	No 24 hour water level reading taken. Hole grouted after completion of boring.	8
-1.3'	10		SP-Grey poorly graded fine to med.sand, trace of silt, mica & wood, wet.		3	Began using Revert drilling mud at 7.5'.	7
-2.8'			SM-Grey silty fine to med. sand, trace of mica, wet.				5
-4.3'			CH-Brown fat clay, moist.		4	Weight of hammer drove splitspoon from 12.0' to 13.5'.	2
-5.8'	15		Greyish brown, trace of fine sand in thin layers, trace of wood, damp.		5		10
-7.3'			Dark grey, no wood.				0
-8.8'			Several thin & very thin sand layers.		6	LAB CLASSIFICATION	3
						No. Class LL PL PI	
					6	CH 133 42 91	1
					9	MH 135 56 79	5
					10	MH 111 52 59	9
					11	CL 27 19 8	10
					13	SM 24 23 1	2
					16	SP NP NP NP	3
					18	SP-SM NP NP NP	2
					19	MH 52 26 23	2
					20	CH 101 39 62	2
							4
					10		2
					11		2
							4
							2
							2
							4
							2

NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.

BLOWS PER FOOT:

Number required to

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		9.2' MLW		Hole No. SH-136	
PROJECT			INSTALLATION			SHEET 2 OF 2 SHEETS	
Savannah Harbor Widening			Savannah, Ga.				
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	BLOWS
-20.8'	30'	c	d	e			
			SM-Light grey silty fine sand, some mica, trace of clay, wet.		12	33.0' to 34.5' - Spring missing in splitspoon. Installed new spring.	7
-23.8'			No recovery, see remarks.				8
-25.3'							4
-26.8'	35		SC-Light grey clayey fine sand, some mica, trace of silt, wet.		13		2
-28.3'			Trace of wood.		14		8
-29.8'			SM-Grey silty fine sand, some mica, wet.		15		24
-32.8'	40		SP-Grey poorly graded fine sand, trace of silt & mica, wet.				41
-33.8'			Fine to med. grained.		16		63
-35.8'	45		Tannish grey, med. to coarse grained.				36
-38.8'			Coarse grained, trace of fine gravel.		17		23
-41.8'	50		Some fine gravel, trace of clayey coarse sand in several thin layers.				24
-43.3'			Several very thin grey & green clay layers.		18		15
-46.3'	55		GC-Grey clayey fine gravel, some coarse sand, trace of coarse gravel & mica, wet.		19		7
-47.8'			CL-Green lean clay, trace of fine sand & silt in several very thin layers, damp.		20		8
-48.0'			SM Green silty fine sand, trace of clay, damp.		21		9
			Bottom of Boring @ 58.1'				26
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.				31
						BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/ 140 lb. hammer falling 30".	100/0.6

DRILLING LOG

DIVISION

South Atlantic

INSTALLATION

Savannah, Ga.

FIGURE NO.

SH-137

1. PROJECT

Savannah Harbor Widening

2. LOCATION (Coordinates or Station)

X=830965 Y=761480

3. DRILLING AGENCY

Savannah District

4. HOLE NO. (As shown on drawing title and file number)

SH-137

5. NAME OF DRILLER

J. Tuttle

6. DIRECTION OF HOLE

☒ VERTICAL
☐ INCLINED

DEG. FROM VERT.

7. THICKNESS OF OVERBURDEN

60.0'

8. DEPTH DRILLED INTO ROCK

0.0'

9. TOTAL DEPTH OF HOLE

60.0'

10. SIZE AND TYPE OF BIT

1 3/8" splitspoon, 6" spiral

11. DATUM FOR ELEVATION SHOWN (TBM or MSL)

MLW

12. MANUFACTURER'S DESIGNATION OF DRILL

Falling 314

13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN

DISTURBED

18

UNDISTURBED

0

14. TOTAL NUMBER CORE BOXES

0

15. ELEVATION GROUND WATER

See Remarks

16. DATE HOLE

STARTED

14 Mar 1987

COMPLETED

16 Mar 1987

17. ELEVATION TOP OF HOLE

10.5'

18. TOTAL CORE RECOVERY FOR BORING

N/A

19. SIGNATURE OF INSPECTOR

James Arthur, Geologist

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	BLOWS
10.5'	0				JAR		
9.0'			SP-Light brown & tan poorly graded fine to med. sand, dry.		1		
7.5'			Tan, some silty orange streaks.				
6.0'			Wet.			Water level 3.0' depth to water during drilling.	4
4.5'	5		SM-Light brown, tan & orange silty fine to med. sand, wet.		2		9
3.0'			Light brown to orange, some tan streaks.			No 24 hour water level reading taken.	9
1.5'			SP-Grey poorly graded med. sand, wet.		3	Backfilled hole w/ grout after completion of boring.	8
0.0'	10		Fine to med. grained, few thin dark grey clayey layers, trace of mica.		4		3
-1.5'			Piece of wood from approx. 10.5' to 10.6'.			Began using Revert drilling mud at 7.5'.	4
-3.0'			CH-Grey & brown fat clay, trace of wood & mica, damp.		5		37
-3.5'	15		Brown, no wood.		6	LAB CLASSIFICATION	1
-6.0'			SP-Tan poorly graded fine to med. sand, few thin grey streaks, trace of silt, wet.			No. Class LL PL PI	9
-7.5'			Med. grained, trace of fine gravel.		7	5 MH 108 49 59	17
-9.0'	20		CH-Grey to greenish grey fat clay, damp.			7 CH 145 41 104	5
-10.5'			Grey, trace of tan fine sand in very thin layers.		8	8 SP-SM NP NP NP	1
-12.0'			SP-Tannish grey poorly graded fine sand, trace of silt & mica, wet.		9	10 CH 171 56 115	4
-13.5'	25		Fine to med. grained, trace of clay in thin dark grey layers.		10	13 SP NP NP NP	5
-18.0'			CH-Grey to greenish grey fat clay, trace of mica, damp.			17 SP-SC - - -	0
-19.5'	30		Layer of med. grained sand at approx. 29.7'.			Weight of hammer drove splitspoon from 24.0' to 25.5'; 25.5' to 27.0'; 27.0' to 28.5' & 28.5' to 30.0'.	0

Continued on sh. 2

NOTE: Soils visually classified

DRILLING LOG (Cont Sheet)

ELEVATION TOP OF HOLE

10.5' MLW

Hole No.

SH-137

PROJECT
Savannah Harbor Widening

INSTALLATION
Savannah, Ga.

SHEET 2
OF 2 SHEETS

ELEVATION a	DEPTH 30'	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	BLOWS
-21.0'			See Remarks.				
-24.0'	35		SM-Light grey silty fine sand, trace of mica, wet.		11	30.0' to 31.5'-No recovery, material probably sand, same as shown in last part of previous drive.	7 12 10
-25.5'			Some grey to dark grey streaks.				
-28.5'	40		SP-Light grey to tannish grey poorly graded fine sand, trace of silt & mica, wet.		12		16 31
-31.5'			Fine to med. grained, some grey streaks.				28 25
-33.0'			Med. grained, trace of fine gravel, no grey streaks.		13		25
-34.5'	45		Med. to coarse grained.				37
-36.0'			No gravel.				26
-39.0'			Trace of fine gravel.		14		32
-40.5'			Greyish tan, coarse grained, no gravel.				27
-42.0'	50		Trace of fine gravel.				29
-43.5'			Tannish grey, med. to coarse grained.		15		26
-45.0'	55		GM-Tannish grey silty fine gravel, some coarse sand, wet.				23 14
-48.0'			GC-Grey clayey fine gravel, some coarse sand, wet.		16		10
-49.5'	60		CH-Greyish green fat clay, some fine gravel & coarse sand, trace of mica & silt, damp.		17		7 18
			Bottom of Boring @ 60.0'		18		38

DRILLING LOG

DIVISION
SOUTH ATLANTIC

Hole No. 101

1. PROJECT
SAVANNAH HARBOR DEEPENING
2. LOCATION (Coordinates or Station)
X-822130 Y-769655 GA. EAST

3. DRILLING AGENCY
SAVANNAH DISTRICT

4. HOLE NO. (As shown on drawing title and file number)
SH-151

5. NAME OF DRILLER
DAVID JUSTISS

6. DIRECTION OF HOLE
☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.

7. THICKNESS OF OVERBURDEN 60.0'

8. DEPTH DRILLED INTO ROCK 0.0'

9. TOTAL DEPTH OF HOLE 60.0'

INSTALLATION
SAVANNAH, GA.

SHEET 1
OF 2 SHEETS

10. SIZE AND TYPE OF BIT 1 1/2" split spoon, 6" spiral auger, 10" roller rock bit & 3/4" fishtail

11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
MLW

12. MANUFACTURER'S DESIGNATION OF DRILL
FALING 314

13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN
DISTURBED 15 UNDISTURBED 0

14. TOTAL NUMBER CORE BOXES

15. ELEVATION GROUND WATER SEE REMARKS

16. DATE HOLE STARTED 22 OCT 91 COMPLETED 22 OCT 91

17. ELEVATION TOP OF HOLE 10.7'

18. TOTAL CORE RECOVERY FOR BORING N/A

19. SIGNATURE OF INSPECTOR

JAMES ARTHUR, P.G.

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	BLOWS
+10.7'	0				JAR		
+9.2'			(SM) Brown, fine to med. silty SAND. Some roots, dry. Asphalt from 1.2'.		1		70
+6.2'			(SC) Greyish-brown, fine to med., clayey SAND. Very thick asphalt layers, wet at 2.1'.		2	Spit spoon drives taken at 4.5' intervals.	
+4.7'	5		(SM) Greyish-brown, fine silty SAND. Trace of clay, wet.		3	Cleaned out to 9.0' w/10" roller rock bit & Zeogel drilling mud.	3
+1.7'			Wash. Contained large amounts of wood & trash (plastic, etc.).			Set 8" casing to 9.0' then began using 5 1/2" fishtail to clean out between split spoon drives.	
+0.2'	10		(SC) Greenish-light grey, clayey, fine SAND. Some thin layers of clay & fine sand, damp.		4	Water level 2.1'. Depth to water during drilling.	5
-2.8'			Wash			Water level 2.4'. Depth to water 25 Oct 91. Taped hole to 6.9' d.	
-4.3'	15		(CH) Light green, fat CLAY. Some coarse sand from 14.7' to 15.0', damp.		5		3
-7.3'			Wash.				
-8.8'	20		(SP) Greenish-light grey, coarse, poorly graded coarse. Some fine gravel, trace of silt, wet.		6		19
-11.8'			Wash.				
-13.3'	25		(CL) Dark grey, silty lean CLAY, trace of mica, dry.		7		22
-16.3'			Wash.				
-17.8'			(SC) Greenish-grey, fine, clayey SAND. Some silt, trace of mica, dry.		8		
-19.3'	30		Wash.				34
Continued on sheet #2							
NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.							

DRILLING LOG (Cont Sheet)

ELEVATION TOP OF HOLE

10.7' MLW

Hole No. SH-151

PROJECT

SAVANNAH HARBOR DEEPENING

INSTALLATION

Savannah, Ga.

SHEET 2

OF 2 SHEETS

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	BLOWS
-19.3'	30	.		.			
-20.8'			Wash.				
-22.3'			(SM) Greyish-green & grey, fine silty SAND. Trace of clay & mica, slightly damp.		9		38
	35		Wash.				
-25.3'			(CL) Greyish-green, silty lean CLAY. Some fine sand, trace of mica, slightly damp.		10		29
-26.8'			Wash.				
-29.8'	40		(ML) Light greenish-grey & grey, lean SILT. Trace of fine sand, clay & mica, dry.		11		54
-31.3'			Wash.				
-34.3'	45		(CL) Greenish-grey, silty lean CLAY. Some fine sand, trace of mica, dry.		12		26
-35.8'			Wash.				
-38.8'	50		(SM) Greenish-grey, fine silty SAND. Trace of clay & mica, slightly damp.		13		20
-40.3'			Wash.				
-43.3'	55		(SC) Greenish-grey, fine clayey SAND. Some silt, trace of mica, slightly damp.		14		54
-44.8'			Wash.				
-47.8'	60		Same as 54.0' to 55.5'.		15		38
-49.3'			Bottom of Boring 60.0'				

DRILLING LOG		VISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		Hole No. SH-176	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 1/8" SPLITSPOON, 5/2" FISHTAIL		SHEET 1 OF 1 SHEETS	
2. LOCATION (Coordinates or Station) X-818862 Y-775265 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-176				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6 UNDISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 60.4' (Water 44.2')				16. DATE HOLE STARTED 28 JAN 92		COMPLETED 28 JAN 92	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.4'				18. TOTAL CORE RECOVERY FOR BORING N/A			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			

ELEVATION 0.0	DEPTH 0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f UAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g BLOWS
			Water			
	40					
-44.2'	45		(SC) Dark grey, fine clayey SAND. Trace of silt.		1	Scale change at 40.0'. Set 6" diameter casing by own weight to 44.7'.
-47.2'			Some silt.			19
-50.2'	50		(CL) Grey, silty, lean CLAY. Some fine sand, trace of mica.		2	43
					3	43
-54.7'	55		Dark grey.			46
-56.2'			(SC) Dark grey, fine clayey SAND. Trace of silt.		4	41
					5	100/0.8
-60.4'	60				6	61
			Bottom of Boring 60.4'			55
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			53
						72
						100/0.7
						BLOWS PER FOOT: Number required to drive 1 1/8" I.D. splitspoon w/140 lb. hammer falling 30".

DRILLING LOG		VISION SOUTH ATLANTIC	INSTALLATION SAVANNAH, GA.	SHEET 1 OF 1 SHEETS
1. PROJECT SAVANNAH HARBOR DEEPENING			10. SIZE AND TYPE OF BIT 1 3/8" SPLITSPOON, 5 1/2" FISTAIL	
2. LOCATION (Coordinates or Station) X=819910 Y=774717 GA. EAST			11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
3. DRILLING AGENCY SAVANNAH DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314	
4. HOLE NO. (As shown on drawing title and file number) SH-177			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 8	
			DISTURBED 8	
			UNDISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS			14. TOTAL NUMBER CORE BOXES 0	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN 60.8' (Water 41.2')			16. DATE HOLE STARTED 28 JAN 92 COMPLETED 28 JAN 92	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0'	
9. TOTAL DEPTH OF HOLE 60.8'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.	

ELEVATION 0.0	DEPTH 0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f UAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	BLOWS
			Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 42.7'.	
	40		Bottom of Harbor 41.2'				
-41.2'			(SC) Dark grey, fine clayey SAND. Trace of fine gravel and small wood particles.		1	Weight of rods drove splitspoon from 41.2' to 42.8'.	0
-42.8'			(CL) Dark grey, lean CLAY. Some fine sand.		2		33
-45.8'			(SC) Dark grey, fine clayey SAND. Trace of silt.		3		47
	50				4		62
-53.3'			(CL) Dark grey, silty lean CLAY. Some fine sand.		5		64
-56.3'			(SC) Dark grey, fine clayey SAND. Some silt.		6		71
-57.8'			(CL) Dark olive-grey, silty, lean CLAY. Trace of fine sand.		7		67
-60.8'			Bottom of Boring 60.8'		8		87
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	79

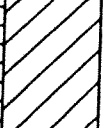
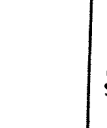
DRILLING LOG		VISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		Hole No. SH-178 SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" SPLITSPOON, 5 1/2" FISHTAIL			
2. LOCATION (Coordinates or Station) X-819311 Y-774351 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-178				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 4 UNDISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 60.2' (Water 43.0')				16. DATE HOLE STARTED 29 JAN 92 COMPLETED 29 JAN 92			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.2'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			

ELEVATION 0.0	DEPTH 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f UAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	BLOWS h	
			Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 45.2'. Pushed casing with Kelley to 45.6'.		
-43.0'			Bottom of Harbor 43.0'					
-45.2'	45		(SC) Dark grey, fine clayey SAND. Trace of wood particles & fine to coarse gravel.		1	Weight of rods drove splitspoon to 43.5'. Weight of hammer drove it to 45.2'.	0	
			No wood or gravel.					
	50					2		
	55					3		
-52.7'			(CL) Dark grey, lean CLAY. Some fine sand & silt, trace of mica.					
	60				4			
-60.2'			Bottom of Boring 60.2'					
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.				BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" SPLITSPOON, 5/2" FISHTAIL			
2. LOCATION (Coordinates or Station) X-819292 Y-773811 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-179				BURDEN SAMPLES TAKEN		DISTURBED	UNDISTURBED
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES		0	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				16. DATE HOLE		STARTED 29 JAN 92	COMPLETED 29 JAN 92
7. THICKNESS OF OVERBURDEN 60.4' (Water 40.9')				17. ELEVATION TOP OF HOLE		0.0'	
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING		N/A	
9. TOTAL DEPTH OF HOLE 60.4'				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			

ELEVATION 0.0	DEPTH 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. UAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	BLOWS
			Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 42.1'.	
	40		Bottom of Harbor 40.9'				
-40.9'							
-42.4'			(CL) Dark grey, lean CLAY. Some fine sand, silt & fine gravel.		1		16
			Silty, lean clay, trace of fine sand, no gravel.				60
	45				2		50
							68
-48.4'					3		54
	50		(SC) Dark grey, fine clayey SAND. Some silt, trace of mica.				73
							80
					4		83
	55						78
							100/0.9
							100/0.9
							52
-60.4'	60		Bottom of Boring 60.4'		5		31
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		Hole No. SM-100	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 5 1/2" fishtail		SHEET 1 OF 1 SHEETS	
2. LOCATION (Coordinates or Station) X-819697 Y-773405 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL FALING 314			
4. HOLE NO. (As shown on drawing title and file number) SH-180				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5 UNDISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 60.9' (Water 42.9')				16. DATE HOLE STARTED 5 DEC 91		COMPLETED 5 DEC 91	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.9'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			

ELEVATION 0.0	DEPTH 0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	BLOWS
			Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 43.5'.	
	40		Bottom of Harbor 42.9'				
	45		(CH) Dark olive-grey, fat CLAY. Trace of silt & mica.		1		20
	47.4						33
	50		Dark olive grey to grey, some silt.		2		33
	51.9						60
	55		(CL) Dark olive grey, silty lean CLAY. Trace if fine sand & mica.		3		55
	56.4						60
	60		(CH) Dark olive-grey, fat CLAY. Some silt, trace of fine sand & mica.		4		71
							60
					5		90
							70
							86
							96
			Bottom of Boring 60.9'				
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION SAVANNAH, GA.	SHEET 1 OF 1 SHEETS
1. PROJECT SAVANNAH HARBOR DEEPENING			10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 51/2" Fishtail	
2. LOCATION (Coordinates or Station) X-819823 Y-772822 GA. EAST			11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
3. DRILLING AGENCY SAVANNAH DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL FALLING 314	
4. HOLE NO. (As shown on drawing title and file number) SH-181			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 5 UNDISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS			14. TOTAL NUMBER CORE BOXES 0	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN 60.1' (Water 42.1')			16. DATE HOLE STARTED 3 FEB 92 COMPLETED 3 FEB 92	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0'	
9. TOTAL DEPTH OF HOLE 60.1'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.	

ELEVATION 0.0'	DEPTH 0'	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	BLOWS
			Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 43.1'.	
-42.1'	40		Bottom of Harbor 42.1'				
			(CL) Dark grey, silty, lean CLAY. Trace of fine sand.		1	Weight of rods drove splitspoon from 42.1' to 43.2'.	2
-46.6'	45						16
			Lean clay, some silt & fine sand.		2		22
-51.1'	50						36
			(SC) Dark grey, fine clayey SAND. Some silt.		3		54
							44
	55				4		66
							50
							48
					5		56
							56
-60.1'	60		Bottom of Boring 60.1'				62
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	
	30						

DRILLING LOG

VISION
SOUTH ATLANTIC

Hole No. SH-102

1. PROJECT
SAVANNAH HARBOR DEEPENING

2. LOCATION (Coordinates or Station)
X-820234 Y-772555 GA. EAST

3. DRILLING AGENCY
SAVANNAH DISTRICT

4. HOLE NO. (As shown on drawing title and file number)
SH-182

5. NAME OF DRILLER
DAVID JUSTISS

6. DIRECTION OF HOLE
☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.

7. THICKNESS OF OVERBURDEN 59.8' (Water 44.8')

8. DEPTH DRILLED INTO ROCK 0.0'

9. TOTAL DEPTH OF HOLE 59.8'

INSTALLATION
SAVANNAH, GA.

SHEET 1
OF 1 SHEETS

10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 5 1/2" fishtail

11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
MLW

12. MANUFACTURER'S DESIGNATION OF DRILL
FALING 314

13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN
DISTURBED 5 UNDISTURBED 0

14. TOTAL NUMBER CORE BOXES 0

15. ELEVATION GROUND WATER N/A

16. DATE HOLE STARTED 5 DEC 91 COMPLETED 5 DEC 91

17. ELEVATION TOP OF HOLE 0.0'

18. TOTAL CORE RECOVERY FOR BORING N/A %

19. SIGNATURE OF INSPECTOR
JAMES ARTHUR, P.G.

ELEVATION 0.0	DEPTH 0.	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc. If significant) f	BLOWS g
			Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 44.8'.	
	40		Bottom of Harbor 44.8'				
-44.8'	45		(CH) Dark olive-grey, fat CLAY. Trace of silt & mica.		1		25
-49.3'	50		Some silt.		2		51
-53.8'			(CL) Dark olive grey, silty lean CLAY. Trace of mica.		3		68
-52.3'			Trace of fine sand.				52
-55.3'	55		(CH) Dark olive-grey, fat CLAY. Some silt, trace of mica.		4		52
							39
							35
							46
							44
-59.8'	60		Bottom of Boring 59.8'		5		45
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 1/8" splitspoon, 51/2" Fishtail			
2. LOCATION (Coordinates or Station) X=820368 Y=772006 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL FAILING 314			
4. HOLE NO. (As shown on drawing title and file number) SH-183				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5	UNDISTURBED 0
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 59.5' (Water 41.5')				16. DATE HOLE		STARTED 3 FEB 92	COMPLETED 3 FEB 92
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 59.5'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0'	0				JAR	BLOWS	
			Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 41.6'.	
-41.5'	40		Bottom of Harbor 41.5'				
	45		(SC) Dark grey, fine clayey SAND. Some silt, trace of mica.		1	38	
						35	
						46	
					2	36	
						35	
	50					34	
					3	33	
						35	
						43	
	55				4	39	
						42	
					5	41	
-59.5'	60		Bottom of Boring 59.5'				
	30		NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 1/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 51/2" Fishtail			
2. LOCATION (Coordinates or Station) X=820813 Y=771614 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL FALLING 314			
4. HOLE NO. (As shown on drawing title and file number) SH-184				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6 UNDISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 60.9' (Water 42.9')				16. DATE HOLE		STARTED 30 JAN 92 COMPLETED 30 JAN 92	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.9'				18. TOTAL CORE RECOVERY FOR BORING N/A			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0'	0					BLOWS	
			Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 43.0'.	
	40		Bottom of Harbor 42.9'				
	45		(CL) Dark grey, lean CLAY. Some silt & fine sand, trace of mica.		1	33	
						41	
						34	
	50				2	33	
						47	
	51.9'		(SC) Dark grey, fine clayey SAND. Some silt, trace of mica.		3	91	
						60	
	54.9'		(CL) Dark grey, lean CLAY. Some fine sand.		4	65	
						47	
	57.9'		(SC) Dark grey, fine clayey SAND. Trace of silt.		5	60	
						46	
	60		Olive-grey.		6	50	
			Bottom of Boring 60.9'				
	30		NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 1/8" splitspoon, 5 1/2" fishtail			
2. LOCATION (Coordinates or Station) X-821329 Y-770794 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL FAILING 314			
4. HOLE NO. (As shown on drawing title and file number) SH-185				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5	UNDISTURBED 0
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 60.3' (Water 43.8')				16. DATE HOLE		STARTED 24 JAN 92	COMPLETED 24 JAN 92
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.3'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
				REMARKS			

9. TOTAL DEPTH OF HOLE		60.3		SPRINGS		REMARKS	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	(Drilling time, water loss, depth of weathering, etc., if significant)	
0.0'	0	c	d			BLOWS	
	40		Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 44.2'.	
-43.8'	45		(SM) Olive-grey, fine silty SAND. Some clay.		1	30	
-46.8'			(SC) Olive-grey, fine clayey SAND. Some silt.		2	54	
-48.3'	50		Olive-grey to grey, trace of mica.			44	
	55				3	49	
						36	
					4	36	
						47	
					5	45	
-60.3'	60		Bottom of Boring 60.3'			46	
						40	
						37	
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION VANNAH, GA.		Hole No. 37-100 SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 5/2" fishtail			
2. LOCATION (Coordinates or Station) X-822019 Y-770017 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL FAILING 314			
4. HOLE NO. (As shown on drawing title and file number) SH-186				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. DISTURBED 7 UNDISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 60.8' (Water 37.7')				16. DATE HOLE STARTED 10 JAN 92		16. DATE HOLE COMPLETED 10 JAN 92	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.8'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			

ELEVATION 0.0'	DEPTH 0 b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc. If significant) g	BLOWS
	35		Water			Scale change at 35.0'. Set 6" diameter casing by own weight to 44.3'.	
-37.7'			Bottom of Harbor 37.7'				
	40		(MH) Dark grey to black, clayey SILT.		1	Weight of rods drove splitspoon from 37.7' to 44.3'. Jar 2 taken from material change at approx. 44.0' to 44.3'.	0
-44.0'			(CH) Dark olive-grey, fat CLAY.		2		
-44.3'	45		(SM) Olive-grey, fine, silty SAND. Some clay.		3		46
							54
-48.8'	50		(SC) Dark grey, fine clayey SAND. Some silt.		4		55
							53
							35
-54.8'	55		(CL) Dark grey, silty, lean CLAY. Some fine sand, trace of mica.		5		32
			Trace of fine sand.		6		35
							30
							30
-60.8'	60				7		36
							62
Bottom of Boring 60.8'						BLOWS PER FOOT:	
NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.						Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" SPLITSPOON, 5 1/2" FISHTAIL			
2. LOCATION (Coordinates or Station) X=822920 Y=768856 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSU) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-187				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 7		DISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 60.1' (Water 36.1')				16. DATE HOLE 19 NOV 91		STARTED 19 NOV 91	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.1'				18. TOTAL CORE RECOVERY FOR BORING N/A			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
ELEVATION 0.0	DEPTH 0.0	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	
			Water Bottom of Harbor 36.1'			Scale change at 35.0'. Set 6" diameter casing by own weight to 41.5'.	
-36.1'	35		(MH) Dark grey to black, clayey SILT. Very wet & soft.		1	Weight of rods drove splitspoon from 36.1' to 41.1'. Added hammer and drove from 41.1' to 42.1' with 12 blows.	
-41.1'	40		(SM) Olive-grey, fine, silty SAND. Trace of clay.		2		
-43.6'	45		(SC) Greenish-grey, fine clayey SAND. Some silt.		3		
-48.1'	50		(CH) Greenish-grey, fat CLAY. Trace of fine sand.		4		
-51.1'	55		Some fine sand.		5		
					6		
					7		
-60.1'	60		Bottom of Boring 60.1'			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	
NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.							

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 5/2" fishtail			
2. LOCATION (Coordinates or Station) X=823361 Y=768567 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL FAILING 314			
4. HOLE NO. (As shown on drawing title and file number) SH-188				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5	UNDISTURBED 0
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 50.0' (Water 41.0')				16. DATE HOLE STARTED 15 JAN 92 COMPLETED 15 JAN 92			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 50.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
ELEVATION 0.0'	DEPTH 0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc. if significant) g	
			Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 42.3'.	
-41.0'	40		Bottom of Harbor 41.0'				
-42.2'			(SM) Dark grey to black, coarse silty SAND. Some clay.		1		
			(SC) Olive, fine clayey SAND. Some silt.		2		
					3	Weight of rods drove splitspoon to 42.3'.	
	45				4		
					5		
-50.0'	50		Bottom of Boring 50.0'				
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG

DIVISION
SOUTH ATLANTICINSTALLATION
SAVANNAH, GA.SHEET 1
OF 1 SHEETS1. PROJECT
SAVANNAH HARBOR DEEPENING2. LOCATION (Coordinates or Station)
X-823634 Y-768168 GA. EAST3. DRILLING AGENCY
SAVANNAH DISTRICT4. HOLE NO. (As shown on drawing title and file number)
SH-1895. NAME OF DRILLER
DAVID JUSTISS6. DIRECTION OF HOLE
☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.

7. THICKNESS OF OVERBURDEN 61.3' (Water 43.3')

8. DEPTH DRILLED INTO ROCK 0.0'

9. TOTAL DEPTH OF HOLE 61.3'

10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 5/2" fishtail

11. DATUM FOR ELEVATION SHOWN (TBM or MSU)
MLW12. MANUFACTURER'S DESIGNATION OF DRILL
FALLING 31413. TOTAL NO. OF OVER-
BURDEN SAMPLES TAKEN DISTURBED 5 UNDISTURBED 0

14. TOTAL NUMBER CORE BOXES 0

15. ELEVATION GROUND WATER N/A

16. DATE HOLE STARTED 22 JAN 92 COMPLETED 22 JAN 92

17. ELEVATION TOP OF HOLE 0.0'

18. TOTAL CORE RECOVERY FOR BORING N/A %

19. SIGNATURE OF INSPECTOR
JAMES ARTHUR, P.G.

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	BLOWS
0.0'	0	c	d		JAR		
			Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 43.7'.	
	40		Bottom of Harbor 43.3'				
-43.3'			(SM) Olive-grey, fine silty SAND. Some clay.		1	Set splitspoon to 43.8' under own weight.	13
-46.3'	45		Trace of large grained gravel, single grained.		2	No sample recovered from 46.3' to 47.8' on first attempt. Cont'd. without cleanout to 49.3'. Single large grain gravel 1" in diameter was recovered in this drive at 46.5'. Gravel was likely cause of the missed sample.	52
-47.8'							37
	50						58
-50.8'			(CH) Dark olive-grey fat CLAY. Some silt. Some sand.		3		29
	50						44
					4		46
							69
	60				5		63
							40
							27
-61.3'			Bottom of Boring 61.3'				37
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

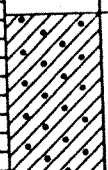
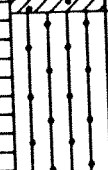
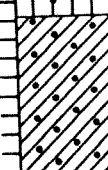
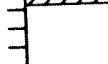
DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION AVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 5 1/2" fishtail			
2. LOCATION (Coordinates or Station) X-823776 Y-767656 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSU) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL FALLING 314			
4. HOLE NO. (As shown on drawing title and file number) SH-190				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6 UNDISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 50.3' (Water 39.4')				16. DATE HOLE		STARTED 15 JAN 92 COMPLETED 15 JAN 92	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 50.3'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
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)	
0.0'	0				JAR	BLOWS	
	35		Water			Scale change at 35.0'. Set 6" diameter casing by own weight to 42.0'.	
	40		Bottom of Harbor 39.4'				
-39.4'			(MH) Very dark grey, clayey SILT.		1	Jar sample 2 taken at change of material from approx. 42.5' to 42.8'.	
-42.5'			(SC) Olive, fine clayey SAND. Trace of wood particles.		2	Weight of rods drove splitspoon from 39.4' to 42.8'.	
-42.8'			Some silt, no wood particles.		3		
-45.8'			(SM) Olive, fine silty SAND. Some clay.		4		
-47.3'			(SC) Olive, fine clayey SAND. Some silt.		5		
-50.3'			Bottom of Boring 50.3'		6		
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		VISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 5/2" fishtail			
2. LOCATION (Coordinates or Station) X=824153 Y=767289 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL FALLING 314			
4. HOLE NO. (As shown on drawing title and file number) SH-191				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 7	UNDISTURBED 0
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 61.1' (Water 41.6')				16. DATE HOLE		STARTED 22 JAN 92	COMPLETED 22 JAN 92
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 61.1'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	BLOWS
0.0	0.0				JAR		
	40		Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 41.7'.	
-41.6'			Bottom of Harbor 41.6'				
	45		(SM) Olive-grey, fine grained silty SAND. Some clay.		1		46
							38
							26
					2		31
-47.6'			(SC) Olive-grey, fine grained clayey SAND. Some silt.		3		38
-49.1'			Dark olive-grey.				52
-51.1'			(CH) Dark olive-grey, fat CLAY. Some silt. Some sand.		4		68
							66
-53.6'			(SC) Olive to dark olive-grey, fine clayey SAND. Some silt.		5		43
							69
							75
					6		54
					7		48
-61.1'			Bottom of Boring 61.1'				
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		VISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 5 1/2" fishtail			
2. LOCATION (Coordinates or Station) X=824153 Y=767289 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL FALING 314			
4. HOLE NO. (As shown on drawing title and file number) SH-191				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 7	UNDISTURBED 0
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 61.1' (Water 41.6')				16. DATE HOLE		STARTED 22 JAN 92	COMPLETED 22 JAN 92
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 61.1'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
ELEVATION 0.0	DEPTH 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
			Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 41.7'.	
	40		Bottom of Harbor 41.6'				
			(SM) Olive-grey, fine grained silty SAND. Some clay.		1		
	45						
			(SC) Olive-grey, fine grained clayey SAND. Some silt.		2		
	47.6'				3		
	49.1'		Dark olive-grey.				
	50						
			(CH) Dark olive-grey, fat CLAY. Some silt. Some sand.		4		
	51.1'						
	53.6'		(SC) Olive to dark olive-grey, fine clayey SAND. Some silt.		5		
	55						
	60				6		
					7		
	61.1'						
			Bottom of Boring 61.1'				
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION SAVANNAH, GA.	SHEET 1 OF 1 SHEETS
1. PROJECT SAVANNAH HARBOR DEEPENING			10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 5 1/2" fishtail	
2. LOCATION (Coordinates or Station) X=824479 Y=766986 GA. EAST			11. DATUM FOR ELEVATION SHOWN (TBM or MSU) MLW	
3. DRILLING AGENCY SAVANNAH DISTRICT			12. MANUFACTURER'S DESIGNATION OF DRILL FALLING 314	
4. HOLE NO. (As shown on drawing title and file number) SH-192			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 5 UNDISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS			14. TOTAL NUMBER CORE BOXES 0	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER N/A	
7. THICKNESS OF OVERBURDEN 60.4' (Water 43.9')			16. DATE HOLE STARTED 23 JAN 92 COMPLETED 23 JAN 92	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0'	
9. TOTAL DEPTH OF HOLE 60.4'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.	

ELEVATION 0.0	DEPTH 0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) BLOWS
			Water			Scale change at 41.8'. Set 6" diameter casing by own weight to 44.8'.
	40		Bottom of Harbor 43.9'			
-43.9'	45		(SC) Olive, fine, clayey SAND. Some silt.		1	12
						39
						50
-48.4'	50		(SM) Olive, fine silty SAND. Some clay.		2	51
						39
						27
-52.9'	55		(SC) Olive-grey, fine clayey SAND. Some silt.		3	34
						63
						69
-57.4'			(CH) Dark olive-grey, fat CLAY. Some silt & fine sand, trace of mica.		4	74
-58.9'			(SC) Olive-grey, fine clayey SAND. Trace of silt.		5	57
-60.4'	60		Bottom of Boring 60.4'			
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".

DRILLING LOG		LOCATION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 5 1/2" fishtail			
2. LOCATION (Coord/notes or Station) X-826339 Y-765324 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-195				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 4 UNDISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 60.4' (Water 48.4')				16. DATE HOLE STARTED 15 DEC 91 COMPLETED 15 DEC 91			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.4'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
ELEVATION 0.0	DEPTH 0.	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. UAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
			Water			Scale change at 45.0'. Set 6" diameter casing by own weight to 49.3'.	
-48.4'	45		Bottom of Harbor 48.4'				
-49.9'	50		(SC) Olive grey, fine clayey SAND. Some silt.		1	15	
			Trace of silt.		2	47	
	55				3	37	
					4	37	
-60.4'	60		Bottom of Boring 60.4'			45	
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			51	
						56	
						58	
						BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 5/2" fishtail			
2. LOCATION (Coordinates or Station) X-827358 Y-764236 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSU) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL FALLING 314			
4. HOLE NO. (As shown on drawing title and file number) SH-197				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 6		DISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0		UNDISTURBED 0	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A		16. DATE HOLE STARTED 4 FEB 92 COMPLETED 4 FEB 92	
7. THICKNESS OF OVERBURDEN 60.0' (Water 39.0')				17. ELEVATION TOP OF HOLE 0.0'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
8. DEPTH DRILLED INTO ROCK 0.0'				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
9. TOTAL DEPTH OF HOLE 60.0'							
ELEVATION 0.0	DEPTH 0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO JAR	REMARKS (Drilling time, water loss, depth of weathering, etc. If significant) g BLOWS	
	35		Water			Scale change at 35.0'. Set 6" diameter casing by own weight to 42.7'.	
-39.0'	40		(SM) Dark-grey, medium to coarse silty SAND. Trace of wood particles.		1	Weight of rods drove splitspoon from 39.0' to 42.0'. 0	
-42.0'			(SP) Dark grey, coarse, poorly graded SAND. Trace of silt.		2	No recovery after first attempt from 46.5' to 48.0'. Redrove to 48.0' then cont'd. drive to 49.5'. Sample 3 from 46.5' to 49.5'. 17	
-43.5'	45		Grey & tan.			Had excessive binding inside casing while driving splitspoon from 48.0' to 49.5' causing casing to be driven 0.7". This resulted in a high blow count of 53. 10	
-46.5'			Greyish-brown, medium to coarse sand, layer of clayey sand at 49.4' to 49.5'.		3	22	
-49.5'	50		(SC) Olive-grey, fine clayey SAND. Some silt.		4	17	
	55				5	53	
	60				6	20	
-60.0'			Bottom of Boring 60.0'			26	
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			35	
						31	
						30	
						37	
						36	
						BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		VISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 1/8" splitspoon, 5 1/2" fishtail			
2. LOCATION (Coordinates or Station) X-828240 Y-763367 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSU) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL FALLING 314			
4. HOLE NO. (As shown on drawing title and file number) SH-198				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6 UNDISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 60.9' (Water 43.9')				16. DATE HOLE		STARTED 4 FEB 92 COMPLETED 4 FEB 92	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.9'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
ELEVATION 0.0	DEPTH 0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY	BOX OR SAMPLE NO JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
			Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 46.7'.	
	40		Bottom of Harbor 43.9'				
	45		(MH) Black clayey SILT.		1	Weight of rods drove splitspoon from 43.9' to 45.9'. 0	
	45.9'		(SM) Black, medium to coarse silty SAND. Some wood particles, trace of clay.		2	29	
	48.9'		(SP) Light brownish-grey, coarse, poorly graded SAND. Some fine gravel.		3	10	
	50		(SC) Olive-grey, fine, clayey SAND. Trace of silt & coarse gravel.		4	33	
	53.4'		Trace of wood, no gravel.			24	
	54.9'		No wood.			22	
	57.9'		(CL) Olive-grey, lean CLAY. Some silt & fine sand. Trace of silt, wood & fine gravel.		5	26	
	59.4'		(SC) Olive-grey, fine, clayey SAND. Trace of silt, wood & fine gravel.		6	45	
	60		Bottom of Boring 60.9'			49	
	60.9'					54	
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			50	
						BLOWS PER FOOT: Number required to drive 1 1/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG

VISION
SOUTH ATLANTICINSTALLATION
SAVANNAH, GA.SHEET 1
OF 1 SHEETS1. PROJECT
SAVANNAH HARBOR DEEPENING2. LOCATION (Coordinates or Station)
X-829313 Y-762257 GA. EAST3. DRILLING AGENCY
SAVANNAH DISTRICT4. HOLE NO. (As shown on drawing title and file number)
SH-1995. NAME OF DRILLER
DAVID JUSTISS6. DIRECTION OF HOLE
☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.

7. THICKNESS OF OVERBURDEN 60.0' (Water 42.0')

8. DEPTH DRILLED INTO ROCK 0.0'

9. TOTAL DEPTH OF HOLE 60.0'

10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 5 1/2" fishtail

11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
MLW12. MANUFACTURER'S DESIGNATION OF DRILL
FAILING 31413. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN
DISTURBED 7 UNDISTURBED 0

14. TOTAL NUMBER CORE BOXES 0

15. ELEVATION GROUND WATER N/A

16. DATE HOLE STARTED 5 FEB 92 COMPLETED 5 FEB 92

17. ELEVATION TOP OF HOLE 0.0'

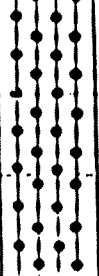
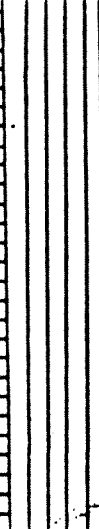
18. TOTAL CORE RECOVERY FOR BORING N/A %

19. SIGNATURE OF INSPECTOR
JAMES ARTHUR, P.G.

ELEVATION 0.0	DEPTH 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) f	BLOWS g
			Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 47.8'.	
	40		Bottom of Harbor 42.0'				
-42.0'			(SM) Very dark grey to black, medium to coarse silty SAND. Some clay.		1	Weight of rods drove splitspoon from 42.0' to 43.5'.	3
-43.5'			(SP) Brownish-grey, coarse, poorly graded SAND. Trace of fine gravel, silt & clay.			No recovery at first attempt from 45.0' to 46.5'. Redrove to 46.5', then cont'd. drove to 48.0'. High blow count of 46 probably due to toolbinding inside casing.	6
-45.0'	45		No clay.				5
							46
							22
-49.5'	50		(SC) Olive-grey, fine, clayey SAND. Some silt.		2		41
-51.0'			Trace of silt.				34
-52.5'			Some silt.		3		100/0.9
-54.0'	55		(CL) Olive-grey, lean CLAY. Some silt & fine sand.		4		32
							27
-57.0'			(SC) Olive-grey, fine, clayey SAND. Trace of silt.		5		22
							35
-60.0'	60		Bottom of Boring 60.0'				
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" SPLITSPOON, 5 1/2" FISHTAIL			
2. LOCATION (Coordinates or Station) X=829915 Y=762329 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
4. HOLE NO. (As shown on drawing title and file number) SH-200				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 8 UNDISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 60.2' (Water 38.9')				16. DATE HOLE		STARTED 20 NOV 91 COMPLETED 20 NOV 91	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.2'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
ELEVATION 0.0	DEPTH 0	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	
	35		Water				
			Bottom of Harbor 38.9'				
-38.9'	40		(MH) Dark grey to black, clayey SILT. Some fine to coarse sand, very wet & soft.		1	No splitspoon recovery from 42.2' to 43.7'. Redrove to 43.7' then cont'd. drive to 45.2'. Made batch of Florigel drilling mud at 45.2'.	
-40.7'			(SM) Grey, medium to coarse, silty SAND. Trace of clay.		2		
-42.2'			(SP) Greyish-tan, coarse, poorly graded SAND. Some fine gravel.		3		
-45.2'	45		(GP) Greyish-tan, fine, poorly graded gravel. Some medium to coarse sand, trace of silt.		4		
-46.7'			(SM) Light olive-grey, fine, silty, SAND. Trace of clay.		5		
-48.2'			Partially indurated from 48.2' to 49.7'.				
-51.2'	50		(SC) Olive-grey, fine, clayey SAND. Some silt.		6		
-55.7'	55		(SM) Light olive-grey, fine, silty SAND. Trace of clay.		7		
-57.2'			Occasional clay layers up to 0.2' thick.		8		
-60.2'	60		Bottom of Boring 60.2'				
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

Hole No. SP-1

DRILLING LOG		DIVISION <u>SOUTH ATLANTIC</u>		INSTALLATION <u>SAVANNAH RIVER</u> <u>SAVANNAH HARBOR, GA.</u>		SHEET / OF 2 SHEETS	
1. PROJECT <u>S.C.L. RAILROAD BRIDGE</u>				10. SIZE AND TYPE OF BIT <u>1 1/8" ID SPLITSPORN</u>			
2. LOCATION (Coordinates or Station) <u>65' DOWNSTREAM FROM BRIDGE ABUTMENT</u>				11. DATUM FOR ELEVATION SHOWN (<u>MLW</u>)			
3. DRILLING AGENCY <u>SAVANNAH DIST. IT</u>				12. MANUFACTURER'S DESIGNATION OF DRILL <u>FALLING 314</u>			
4. HOLE NO. (As shown on drawing title and file number) <u>SP-1</u>				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED <u>5</u>	UNDISTURBED <u>0</u>
5. NAME OF DRILLER <u>T. W. SCOTT</u>				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN <u>- 67.2'</u>				16. DATE HOLE		STARTED <u>20 APRIL 1976</u>	COMPLETED <u>20 APRIL 1976</u>
8. DEPTH DRILLED INTO ROCK <u>0.0'</u>				17. ELEVATION TOP OF HOLE <u>- 35.7' MLW</u>			
9. TOTAL DEPTH OF HOLE <u>- 67.2' MLW</u>				18. TOTAL CORE RECOVERY FOR BORING <u>2</u>			
				19. SIGNATURE OF INSPECTOR <u>Charles D. Griffin</u>			
ELEVATION e	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
<u>-35.7</u>	0'		WATER DEPTH - 35.7'			Note: Set 4" casing. Clean out hole using Fishtail Bit before driving Splitspoon.	
<u>-39.2</u>	5'		OH- BLACK AND DARK GRAY SOFT ORGANIC SILT		1	2 4	
<u>-46.7</u>	10'		SM- OLIVE GREEN FINE SILTY SAND		2	10 50 59 54 61	
<u>-60.7</u>	25'		ML- OLIVE GREEN INORGANIC SILT		3	58 51 55 62 59 64 77 51 41	
Continued on Sheet No. 2							
NOTE: Soils field classified in accordance with the Unified Soil Classification System.				BLOWS PER FOOT: Number required to drive 1 1/8" ID splitspoon w/140 lb. hammer falling 30".			