

PROJECT		INSTALLATION		Hole No.	SHEET 2 OF 2 SHEETS	
S.C.L. RAILROAD BRIDGE		-35.7 MLW		SP.1		
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)
-67.2	27'		ML - OLIVE GREEN INORGANIC SILT		100	BLOWS 8
	30'				5	33
						44
						29
						31
			BOTTOM OF HOLE -67.2 MLW			30

.NON TOP OF HOLE

PROJECT

-35.7 MW

Hole No. 5p.1

S. C. L. RAILROAD BRIDGE

INSTALLATION

SANJUAN HARBOR

SHEET 2
OF 2 SHEETS

ELEVATION

DEPTH

LEGEND

CLASSIFICATION OF MATERIALS (Description)

**% CORE
RECOV.
ERY**

[illegible]

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

2

25'

C

d

196

BLOWS

15

ML- OLIVE GREEN
INORGANIC SILT

5

— 33

- 44

— 29 —

- 31

34

-67.2.

BOTTOM OF HOLE - 67.2 MLW

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, Ga.		SHEET 1 OF 1 SHEETS	
1. PROJECT Widening & Deepening Savannah Harbor				10. SIZE AND TYPE OF BIT 3 1/2" I.D. Sampler			
2. LOCATION (Coordinates or Station) STA 1110, N. Side				11. DATUM FOR ELEVATION SHOWN (T.B.W. or M.S.L.) MIW			
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-63				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISTURBED 1 UNDISTURBED	
5. NAME OF DRILLER Al Stockel				14. TOTAL NUMBER CORE BORE- 1 plastic tube			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND-WATER- Tide gage 2.4		16. DATE HOLE STARTED 5-20-67 COMPLETED 5-20-67	
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE -30.1		18. TOTAL CORE RECOVERY FOR BORING 1.95%	
8. DEPTH DRILLED INTO ROCK				19. SIGNATURE OF INSPECTOR J. A. Albritton			
9. TOTAL DEPTH OF HOLE 18.0'							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
-30.0						Time Sec/ft.	
-35.0			MH-gray; soft silt			Zone of core loss -30.1 to -38.1	
-40.0			SP-gray, fine to med. grained, micaceous sand.		V-63	72.0	
-45.0			SM-Lt. gray, fine grained silty sand.			5.0	
			SP-Light gray, medium grained sand.	95		3.0	
			SM-ML-gray very fine sand and light green, dense silt with chips of mottled gray & green siltstone & sandstone.			3.0	
			Bottom of Hole -48.1			9.0	
			Note: Soils field classified in accordance with the Unified Soil Classification System.			5.0	

DRILLING LOG

REVISION

South Atlantic

INSTALLATION

NOTE 170.

V-64

SHEET 1 OF 1 SHEETS

1. PROJECT

Widening & Deepening Savannah Harbor

2. LOCATION (Coordinates or Station)

Sta. 114, S. Side

3. DRILLING AGENCY

Alpine Geophysical Asso.

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

V-64

5. NAME OF DEALER

Al Stockel

6. DIRECTION OF HOLE

☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.

7. THICKNESS OF OVERBURDEN

8. DEPTH DRILLED INTO ROCK

9. TOTAL DEPTH OF HOLE

11.7'

10. SIZE AND TYPE OF BIT

3-1/2" ID Sampler

11. DATUM FOR ELEVATION SHOWN (TODAY'S DATE)

MLW

12. MANUFACTURER'S DESIGNATION OF DRILL

Alpine 20' Vibratory Sampler

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN

DISTURBED

1

UNDISTURBED

0

14. TOTAL NUMBER CORE BOXES

1 Plastic Tube

15. ELEVATION GROUND WATER

Tide Gage 1.3

16. DATE HOLE

STARTED

5-20-67

COMPLETED

5-20-67

17. ELEVATION TOP OF HOLE

-31.7

18. TOTAL CORE RECOVERY FOR BORING

75 %

19. SIGNATURE OF INSPECTOR

J. A. Albritton

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water lost, depth of weathering, etc., if significant)
-30.0						
-35.0			MH-Gray, very soft silt.			
-40.0			SM-Gray, medium grained, silty sand.	75	V-64	
-45.0			SP-Gray, medium grained, slightly silty, micaceous sand.			
			SM-Gray, fine grained, micaceous sand.			
			SM-ML-Gray, fine sand and green, hard, dense silt.			
			BOTTOM OF HOLE - 43.4'			
			Soils field classified in accordance with the Unified Soil Classification System.			

Time
Sec./Ft.

Zone of Core Loss

-31.7 to -36.4

0.5

0.5

0.5

1.0

6.0

13.0

12.0

7.0

6.0

7.0

85/0 7'

Hole No. V-65

DRILLING LOG		South Atlantic		INSTALLATION Savannah, Ga.		SHEET OF 1 SHEETS	
1. PROJECT Widening & Deepening Savannah Harbor				10. SIZE AND TYPE OF DRILL 3-1/2" ID Sampler			
2. LOCATION (Coordinates or Station) Sta. 113A, N. Side				11. DATUM FOR ELEVATION SHOWN (SEE DRAWING) 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-65				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES	
				DISTURBED 1		UNDISTURBED 0	
5. NAME OF DRILLER Al Stockel				15. ELEVATION GROUND WATER Tide Gage 0.5			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				16. DATE HOLE 5-20-67		17. ELEVATION TOP OF HOLE -32.1	
7. THICKNESS OF OVERBURDEN				18. TOTAL CORE RECOVERY FOR BORING 70 %		19. SIGNATURE OF INSPECTOR J. A. Albritton	
8. DEPTH DRILLED INTO ROCK							
9. TOTAL DEPTH OF HOLE 15.5'							

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)
-30.0						Time Sec/Ft
-35.0			MH-Gray, very soft silt.			0.4
-40.0			SM-Gray, silty sand.	70	V-65	0.4
-45.0			SP-Gray, medium to coarse grained, gravelly sand.			0.4
			SM-Gray, medium grained, silty sand.			0.4
			ML-Green, dense silt.			0.4
			BOTTOM OF HOLE -47.6'			0.4
			Soils field classified in accordance with the Unified Soil Classification System.			0.4

Zone of Core Loss
-32.1 to -38.3
ONLY

0.4
0.4
0.4
0.4
0.4
0.4
1.0
2.0
2.0
3.0
4.0
7.0
34.0
71.0/0.5

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		SHEET OF 1 SHEETS	
1. PROJECT Widening & Deepening Savannah Harbor				10. SIZE AND TYPE OF BIT 3-1/2" Sampler			
2. LOCATION (Coordinates or Station) Sta. 112A, S. Side				11. DATA FOR ELEVATION SHOWN (FEET & INCHES) M.L.W.			
3. DRILLING AGENCY Alpine Geophysical Asso.				12. MANUFACTURER'S DESIGNATION OF DRILL Alpine 20' Vibratory Sampler			
4. AL NO. (As shown on drawing title and file number) V-66B				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED 1 UNDISTURBED 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 -0.3			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 5-20-67 COMPLETED 5-20-67			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -32.3			
9. TOTAL DEPTH OF HOLE 15.7'				18. TOTAL CORE RECOVERY FOR BORING 75 %			
				19. SIGNATURE OF INSPECTOR J. A. Albritton			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOR OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
-30.0						Time Sec/Ft.	
-35.0			MH-Gray, very soft silt with wood chips.			0.5 0.5 0.5 0.5	
-40.0			SM-Gray, fine to medium grained, silty sand.	75	V-66B	Zone of Core Loss -32.3 to -37.8 1.0 1.0 3.0 4.0 5.0 7.0 5.0 6.0 4.0 75.0	
-45.0			SP-Gray, fine to medium grained, slightly silty sand. Light gray, coarse sand.				
			ML-Green, dense, dry, slightly plastic silt.				
			BOTTOM OF HOLE -48.0'				
			Soils field classified in accordance with the Unified Soil Classification System.				

FOR INFORMATION ONLY

Hole No. V-67

DRILLING LOG

DIVISION

South Atlantic

INSTALLATION

Savannah, Georgia

SHEET

OF 1 SHEETS

PROJECT

Widening and Deepening, Savannah Harbor

10. SIZE AND TYPE OF BIT 3 1/2" ID Sampler

11. DATUM FOR ELEVATION SHOWN (TBM or MSL)

M.W.

12. MANUFACTURER'S DESIGNATION OF DRILL

Alpine 20 Vibratory Sampler

13. TOTAL NO. OF OVERBURDEN
SAMPLES TAKEN

DISTURBED

UNDISTURBED

14. TOTAL NUMBER CORE BORE 1 plastic tube

15. ELEVATION GROUND WATER Tide Gage 0.0

16. DATE HOLE

STARTED

5/20/67

COMPLETED

5/20/67

17. ELEVATION TOP OF HOLE -29.0

18. TOTAL CORE RECOVERY FOR BORING 89 %

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)
-25.0						
-30.0						Time Sec/ft
-35.0			SM- Dark gray, medium grained silty sand with decomposed wood and plant fragments.	88	V-67	Zone of core loss 0.5 -20.0 to -37.0 0.5
-40.0			SP-Tan, medium grained sand.			
-45.0			ML-Green, dense, dry, silt.			
			Bottom of Hole -47.0 Note: Soils field classified in accordance with the Unified Soils Classification System.			

SECTION
 ONLY

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION SAVANNAH, GEORGIA		Hole No. V-68	SHEET OF 1 SHEETS
1. PROJECT WIDENING & DEEPENING SAVANNAH HARBOR						
2. LOCATION (Coordinates or Station) Station III, S. Side						
3. DRILLING AGENCY Alpine Geophysical Association						
4. HOLE NO. (As shown on drawing title and file number) V-68						
5. NAME OF DRILLER Al Stockel						
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.						
7. THICKNESS OF OVERBURDEN						
8. DEPTH DRILLED INTO ROCK						
9. TOTAL DEPTH OF HOLE 18.0'						
10. SIZE AND TYPE OF BIT 3 1/2" ID Sampler						
11. DATUM FOR ELEVATION SHOWN (T.B.M. or M.S.L.) MLW						
12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE 20' VIBRATORY SAMPLER						
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED 1 UNDISTURBED						
14. TOTAL NUMBER CORE PRIEX 1 Plastic Tube						
15. ELEVATION GROUND WATER Title Gage 1.7						
16. DATE HOLE STARTED 5/20/67 COMPLETED 5/20/67						
17. ELEVATION TOP OF HOLE -31.3						
18. TOTAL CORE RECOVERY FOR BORING 72						
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)
-30.0						Time Sec./ft.
-35.0			MU-gray, very soft silt.			Zone of core loss -31.3 to -39
-40.0			SP-light gray, medium grain- ed sand.	72	V-68	
-45.0			ML-Light green, dense, slightly plastic silt.			
-50.0			Bottom of Hole 49.3 Note: Soils field classified in accordance with the Unified Soils Classification System.			

DRILLING LOG		DIVISION		INSTALLATION		Hole No. V-69A	
PROJECT		LOCATION		SHEET		SHEETS	
1. PROJECT		2. LOCATION		3. SHEET		4. SHEETS	
Widening & Deepening Savannah Harbor		Station 110, N. Side		Savannah, Georgia		Sheet 1 of 1	
3. DRILLING AGENCY		4. HOLE NO. (As shown on drawing, title and file number)		5. DATE HOLE		6. ELEVATION TOP OF HOLE	
Alpine Geophysical Association		V-69A		5/20/67		-30.4	
7. NAME OF DRILLER		8. DIRECTION OF HOLE		9. ELEVATION TOP OF HOLE		10. TOTAL CORE RECOVERY FOR BORING	
Al Stockel		VERTICAL		-30.4		70	
9. THICKNESS OF OVERBURDEN		10. SIGNATURE OF INSPECTOR		11. TOTAL NUMBER CORE BOXES		12. SIGNATURE OF INSPECTOR	
18.2'		J.A. ALBRITTON		1 Plastic Tube		J.A. ALBRITTON	
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						Time Sec./ft.	
-35.0			Mil-gray, very soft silt.			0.6	
-40.0			SN-gray, med. grained, micaceous, silty sand.			0.6	
-45.0			SP-tan, medium grained, micaceous sand	70	V-69A	0.6	
-50.0			ML-Green, hard, dense silt, grading toward a compaction shale			0.6	
			Bottom of Hole -49.1			0.6	
			Note: Soils field classified in accordance with the Unified Soils Classification System.			0.6	

Hole No. V-69A

SHEET	1
OF 1	SHEETS

SAVANNAH CERCLA

10. SIZE AND TYPE OF DR 3 1/2" ID Sampler

11. DATUM FOR ELEVATION SHOWN (T.M. or M.S.L.)

MLW

12. MANUFACTURER'S DESIGNATION OF DRILL

Alpine 20' Vibratory Sampler

13. TOTAL NO. OF OVERBURDEN
SAMPLES TAKEN

• 012541220

APPENDIX A

14. TOTAL NUMBER CORE BOXES 1 Plastic Tube

15. ~~STATION GROUND-WATER~~ Tide Gage 3.6

14. DATE HOUR

SLAVEN

5/20/57

COMPLETED

5/20/67

17. ELEVATION TOP OF HOLE -30.4

18. TOTAL CORE RECOVERY FOR BORING 70

19. SIGNATURE OF INSPECTOR

J. A. ALBRITTON

REMARKS
time, water loss, depth of
eg. etc., if significant)

Time
Sec/ft.

Mil-gray, very soft silt.

SM-gray, med. grained, micaceous, silty sand

SP- tan, medium grained, micaceous
sand

11-Green, hard, dense silt,
grading toward a compaction shale

Bottom of Hole -49.1
Note: Soils field classified
in accordance with the Unified
Soils Classification System.

Zone of core loss
-30.4 to -37.05:

0
-
-
-
-
-

200/0.7'

DRILLING LOG		DIVISION		INSTALLATION		Hole No.	
1. PROJECT		Jth Atlantic		Savanna Ga.		V-708	
2. LOCATION (Coordinates or Station)		Sta. 109, N. Side		10. SIZE AND TYPE OF BIT		3-1/2" ID Sampler	
3. DRILLING AGENCY		Alpine Geophysical Asso.		11. DATUM FOR ELEVATION SHOWN (MEASUREMENT)		MLW	
4. HOLE NO. (As shown on drawing and file number)		V-708		12. MANUFACTURER'S DESIGNATION OF DRILL		Alpine 20' Vibratory Sampler	
5. NAME OF DRILLER		Al Stockel		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISTURBED 1 UNDISTURBED 0	
6. DIRECTION OF HOLE		☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES		1 Plastic Tube	
7. THICKNESS OF OVERBURDEN				15. ELEVATION GROUND WATER		Tide Gage 8.6	
8. DEPTH DRILLED INTO ROCK				16. DATE HOLE		STARTED 5-22-67 COMPLETED 5-22-67	
9. TOTAL DEPTH OF HOLE		19.0'		17. ELEVATION TOP OF HOLE		-31.5	
				18. TOTAL CORE RECOVERY FOR BORING		66 %	
				19. SIGNATURE OF INSPECTOR		J. A. Albritton	
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						Time Sec/Ft	
-35.0			MH-Nearly black, very soft, sandy silt.			0.5	
-40.0			SM-Dark gray, medium grained, silty, micaceous sand.			0.5	
-45.0			SP-Tan, medium to coarse grained, micaceous sand.			0.5	
-50.0			SM-Gray, medium grained, micaceous, silty sand.	66	V-708	0.5	
			SP-Tan, medium to coarse grained, micaceous sand.			0.5	
			ML-Green, very dense, slightly plastic silt.			0.5	
			BOTTOM OF HOLE -50.5'			0.5	
			Soils field classified in accordance with the Unified Soil Classification System.			0.5	

ONLY
 0.5
0.5
0.5
0.5
0.5
2.0
3.0
29.0
120.0
32.0
12.0
1.0
6.0
6.0
5.0
5.0
13.0
82.0

Hole No. V-72

DRILLING LOG		DIVISION 5th Atlantic		INSTALLATION Savannah, Ga.		SHEET 1 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. 108, N. Side				11. DATUM FOR ELEVATION SHOWN (ON DRAWING SHEET) 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-72				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISTURBED 1 UNDISTURBED 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 5.6		16. DATE HOLE STARTED 5-22-67 COMPLETED 5-22-67	
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE -33.2			
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING 70 %			
9. TOTAL DEPTH OF HOLE 16.0'				19. SIGNATURE OF INSPECTOR J. A. Albritton			

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						
-35.0			MH-Dark gray, very soft silt.			Time Sec/Ft
-40.0			SM-Dark gray, medium to coarse grained, silty-sand.	70	V-72	1.0 0.66 Zone of Core Loss -33.2 to -38.3 0.66 2.0 5.0 4.0 3.0 2.0 3.0 4.0 5.0 5.0 8.0 11.0 73.0
-45.0			SP-Tan, medium to coarse grained sand. Gravelly from -48.7 to -49.2 BOTTOM OF HOLE -49.2'			
-50.0			Soils field classified in accordance with the Unified Soil Classification System.			

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, Georgia		Hole No. V-73	
1. PROJECT Widening & Deepening Savannah Harbor				10. SIZE AND TYPE OF BIT 3 1/2" L.H. Sampler		SHEET 1 OF 1 SHEETS	
2. LOCATION (Coordinates or Station) STA. 107, N. Side				11. DATUM FOR ELEVATION SHOWN (MHW, MLLW, etc.) MLW			
3. DRILLING AGENCY Alpine Geophysical, Inc.				12. MANUFACTURER'S DESIGNATION OF DRILL Alpine 20' Vibratory Sampler			
4. HOLE NO. (As shown on drawing and file number) V-73				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED: 1 UNDISTURBED: 0			
5. NAME OF DRILLER Al Stockel				14. TOTAL NUMBER CORE BORE 1 plastic tube			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION OF GROUND WATER Tide gage 4.6			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED: 5-22-67 COMPLETED: 5-22-67			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -32.4			
9. TOTAL DEPTH OF HOLE 44.5'				18. TOTAL CORE RECOVERY FOR BORING		64%	
				19. SIGNATURE OF INSPECTOR J. A. Albritten			
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							
-35.0		No Sample					
-40.0			SM, Gray, Fine to medium grained, silty sand with wood chips	64	V-73		
-45.0			SP - Tan, fine to medium grained, slightly silty sand with wood chips.				
			ML, Green, Dense silt.				
			Bottom of Hole -46.9				
			Note: Soils field classified in accordance with the Unified Soil Classification System.				

Time
Sec./ft.

1.0
0.5
0.5
1.5
1.0
2.0
3.0
4.0
7.0
5.0
8.0
18.0
40.0/0.5
50.0

Hole No. V-77

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah, Ga.	SHEET 1 OF 1 SHEETS
1. PROJECT Widening & Deepening Savannah Harbor				
LOCATION (Coordinates or Station) TA 104B, N. Side				
2. DRILLING AGENCY Alpine Geophysical Asso.				
4. HOLE NO. (As shown on drawing title and file number) V-77				
3. NAME OF DRILLER AJ Stockel				
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				
7. THICKNESS OF OVERBURDEN				
8. DEPTH DRILLED INTO ROCK				
9. TOTAL DEPTH OF HOLE 14.0				
10. SIZE AND TYPE OF BIT 3 1/2" I. D. Sampler				
11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MFW				
12. MANUFACTURER'S DESIGNATION OF DRILL Alpine 20' Vibratory Sampler				
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED 1 UNDISTURBED 0				
14. TOTAL NUMBER CORE BOXES 1 plastic tube				
15. ELEVATION-GROUND WATER Tide gage 3.4				
16. DATE HOLE STARTED 5-23-67 COMPLETED 5-23-67				
17. ELEVATION TOP OF HOLE -30.6				
18. TOTAL CORE RECOVERY FOR BORING 80 %				
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 lost, depth of weathering, etc., if significant)
-30.0						Time Sec./ft.
-35.0			SM-gray, medium grained, micaceous, silty sand			1.0 Zone of core loss 2.0 -30.6 to -36.0 4.0
-40.0			SP-tan, medium grained sand. Gravelley from -39.1 to -40.	80	V-77	
-45.0			SM-green, fine, silty sand ML-green, dense, slightly plastic silt.			
			Bottom of Hole -44.6 Note: Soils field classified in accordance with the Unified Soils Classification System.			

ATNO
ONLY

970
750
550
450
350
250
150
100
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
-500
-550
-600
-650
-700
-750
-800
-850
-900
-950
-1000

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, Ga.		V-78 SHEET 1 OF 1 SHEETS	
1. PROJECT Widening & Deepening Savannah Harbor				10. SIZE AND TYPE OF BIT 3 1/2" I.D. Sampler			
2. LOCATION (Coordinates or Station) LA 701A, S. Side				11. DATUM FOR ELEVATION SHOWN (TBM or MLL) MLW			
3. DRILLING AGENCY Alpine Geophysical Asso. AL NO. (As shown on drawing title and file number) V-78				12. MANUFACTURER'S DESIGNATION OF DRILL Alpine Geophysical Asso.			
5. NAME OF DRILLER Al Stockel				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORES	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				13. ELEVATION-GROUND MARK Tide gage 3.3		14. TOTAL NUMBER CORES 1 plastic tube	
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 5-23-67 COMPLETED 5-23-67		15. ELEVATION-GROUND MARK Tide gage 3.3	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -27.5		18. TOTAL CORE RECOVERY FOR BORING 100 %	
9. TOTAL DEPTH OF HOLE 15.0				19. SIGNATURE OF INSPECTOR J. A. Albritton			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-25.0						
-30.0			ML-gray, soft silt	100	V-78	
-35.0			ML-soft, green silt.			
			SM & ML-green, fine sand and silt.			
-40.0			ML-green, dense silt.			
			Bottom of Hole -42.5 Note: Soils field classified in accordance with the Unified Soils Classification System.			

FOR CORRELATION ONLY		Time Sec./ft.
		0.3
		0.3
		0.3
		0.3
		0.3
		0.3
		0.3
		0.3
		5.0
		28.0
		86.0
		167.0
		160.0

V-79

DRILLING LOG		DIVISION South Atlantic	INSTALLATION 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. 104, N. Side			11. DARAM FOR ELEVATION SHOWN (784.3-784.3) 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-79			13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED 1 UNDISTURBED 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 2.3	
7. THICKNESS OF OVERBURDEN			16. DATE HOLE STARTED 5-23-67 COMPLETED 5-23-67	
8. DEPTH DRILLED INTO ROCK			17. ELEVATION TOP OF HOLE -25.5	
9. TOTAL DEPTH OF HOLE 18.0'			18. TOTAL CORE RECOVERY FOR BORING 80 %	
			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)
-25.0						Time Sec/Ft
			MH-Gray, soft silt.			0.5
			SM & MH-Gray, coarse sand and soft silt.			0.5
-30.0						0.5
			MH-Gray, soft silt.	80	V-79	0.5
-35.0						0.5
			SM-Gray, medium to coarse grained, micaceous, silty sand.			0.5
			SP-Tan, medium to coarse grained, micaceous sand.			0.5
-40.0			SM-Green, fine, silty sand.			0.5
			ML-Green, dense, sandy silt.			0.5
			BOTTOM OF HOLE -43.5'			0.5
						1-0
						2.0
						7.0
						5.0
						37.0
						118.0
			Soils field classified in accordance with the Unified Soil Classification System.			

Zone of Core Loss
-25.5 to -37.5

FOR
CORRELATION
ONLY

DRILLING LOG

1. PROJECT Widening & Deepening Savannah Harbor		INSTALLATION Savannah Ga.		V-80 SHEET 1 OF 1 SHEETS	
2. LOCATION (Coordinates or Station) Sta. 103A, N. Side		10. SIZE AND TYPE OF BIT 3-1/2" ID Sampler			
3. DRILLING AGENCY Alpine Geophysical Asso.		11. DATUM FOR ELEVATION SHOWN (FROM WHICH?) MLW			
4. HOLE NO. (As shown on drawing title and file number) V-80		12. MANUFACTURER'S DESIGNATION OF DRILL Alpine 20' Vibratory Sampler			
5. NAME OF DRILLER Al Stockel		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED: 1 UNDISTURBED: 0			
6. DIRECTION OF HOLE: ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES 1 Plastic Tube			
7. THICKNESS OF OVERBURDEN		15. ELEVATION GROUND WATER Tide Gage 1.7			
8. DEPTH DRILLED INTO ROCK		16. DATE HOLE STARTED: 5-23-67 COMPLETED: 5-23-67			
9. TOTAL DEPTH OF HOLE 18.0'		17. ELEVATION TOP OF HOLE -26.3			
		18. TOTAL CORE RECOVERY FOR BORING 89 %			
		19. SIGNATURE OF INSPECTOR J. A. Albritton			

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
-25.0						
-30.0						
-35.0			SP-Tan, fine to medium grained, micaceous sand with wood and plant fragments.	89	V-80	Zone of Core Loss -26.3 to -39.3
-40.0			SM-Green, fine to medium grained, silty sand.			
			ML-Green, dense, sandy silt.			
			BOTTOM OF HOLE -44.3'			
			Soils field classified in accordance with the Unified Soil Classification System.			

Zone of Core Loss
-26.3 to -39.3

ONLY

Time
Sec/Ft

1.0
0.5
0.5
1.0
1.0
1.0
2.0
4.0
7.0
5.0
6.0
6.0
7.0
14.0
72.0
106.0

DRILLING LOG		DIVISION South Atlantic		RESISTANCE Savannah, Ga.		SHEET 1 OF 1 SHEETS	
1. PROJECT Widening & Deepening Savannah Harbor				10. SIZE AND TYPE OF BIT 3 1/2" I.D. Sampler			
2. LOCATION (Coordinates or Station) STA. 103A, S. Side				11. DATUM FOR ELEVATION SHOWN (+MAM -MAM) MLW			
3. DRILLING AGENCY Inpe Geophysical Asso.				12. MANUFACTURER'S DESIGNATION OF DRILL Alpine 20' Vibratory Sampler			
4. HOLE NO. (As shown on drawing title and file number) V-81				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISTURBED 1 UNDISTURBED 0	
5. NAME OF DRILLER A. Stockel				14. TOTAL NUMBER CORE BOXES 1 plastic tube			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND-WATER Tide gage 1.2			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE STARTED 5-23-67 COMPLETED 5-23-67			
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE -29.3			
9. TOTAL DEPTH OF HOLE 13.0'				18. TOTAL CORE RECOVERY FOR BORING 92%			
				19. SIGNATURE OF INSPECTOR J. A. Albritton			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
-25.0						Time Sec./ft.	
-30.0			MH-gray, soft silt.			Zone of core loss -29.3 to -33.4'	
-35.0			MH & SM gray silt and fine sand.	92	V-81	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 27.0 60.0 107.0 133.0 168.0	
40.0			NL-green, dense, sandy silt.			ATTENTION ONLY	
			Bottom of Hole -42.3 Note: Soils field classified in accordance with the Unified Soils Classification System.				

DRILLING LOG

UNVISIC

South Atlantic

Hole No. V-85A

1. PROJECT

Widening & Deepening Savannah Harbor

INSTALLATION

Savannah, Ga.

SHEET 1 OF 1 SHEETS

2. LOCATION (Coordinates or Station)

Sta. 100, N. Side

10. SIZE AND TYPE OF BIT

3-1/2" Vibratory Sampler

3. DRILLING AGENCY

Alpine Geophysical Asso.

11. BATHY FOR ELEVATION SHOWN (FEET/INCHES)

HLW

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

V-85A

12. MANUFACTURER'S DESIGNATION OF DRILL

Alpine 20' Vibratory Sampler

5. NAME OF DRILLER

Al Stockel

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN

DISTURBED 1 UNDISTURBED 0

6. DIRECTION OF HOLE

☒ VERTICAL ☐ INCLINED

DEG. FROM VERT.

14. TOTAL NUMBER CORE BOXES

1 Plastic Tube

7. THICKNESS OF OVERBURDEN

15. ELEVATION GROUND WATER

Tide Gage 8.0

8. DEPTH DRILLED INTO ROCK

16. DATE HOLE

5-24-67

COMPLETED

5-24-67

9. TOTAL DEPTH OF HOLE

14.0'

17. ELEVATION TOP OF HOLE

-28.5'

18. TOTAL CORE RECOVERY FOR BORING

19. SIGNATURE OF INSPECTOR

79 %

J. A. Albritton

ELEVATION

DEPTH

LEGEND

CLASSIFICATION OF MATERIALS (Description)

% CORE RECOVERY

BOX OR SAMPLE NO.

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

-25.0

-30.0

-35.0

-40.0

SM-Gray, gravelley, silty, fine, micaceous sand with rotten wood and plant fragments.

SP-Gray, fine to medium grained, slightly silty, micaceous sand.

SM-Dark gray, medium grained, silty sand.

SP-Light gray, medium grained sand.

SP-Tan, medium grained sand.

SM-Light green, fine to medium grained, silty sand.

ML-Green, dense, micaceous, plastic silt, grading toward a compacted shale.

BOTTOM OF HOLE -42.5'

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

Time Sec./Ft.

V-85A

Zone of Core Loss -28.5 to -39.5

0.1
0.5
0.5
1.0
1.0
1.0
1.0
1.0
2.0
4.0
18.0
328.0

(Revised by Amendment No. 0001)

Hole No. V-86

DRILLING LOG

DIVISION

South Atlantic

INSTALLATION

Savannah, Ga.

SHEET

Of 1 SHEETS

1. PROJECT Widening & Deepening Savannah Harbor		10. SIZE AND TYPE OF BIT 3 1/2" ID Sammler	
2. LOCATION (Coordinates or Station) TA. 98, N. Side		11. DATUM FOR ELEVATION SHOWN (TEAM USE) MIW	
3. DRILLING AGENCY Alpine Geophysical Asso.		12. MANUFACTURER'S DESIGNATION OF DRILL Alpine 20' Vibratory Sammler	
4. HOLE NO. (As shown on drawing title and file number) V-86		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED: 1 UNDISTURBED: 0	
5. NAME OF DRILLER Al Stockel		14. TOTAL NUMBER CORE BONES 1 plastic liner	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER Tide gage	
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 -32.5	
9. TOTAL DEPTH OF HOLE 11.0'		18. TOTAL CORE RECOVERY FOR BORING 80%	
		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)
-30.0						Time Sec./ft.
-35.0			OH-black, soft, organic silt			0.5
			SM-gray, medium grained, micaceous, silty sand.			0.5
			SP-tan, medium grained, micaceous sand.	80	V-86	0.5
-40.0			SM-Green, fine silty sand			0.5
			HL-Green, dense, plastic silt, grading toward a compaction shale			1.0
			Bottom of Hole 43.5			1.0
			Note: Soils field classified in accordance with the Unified Soils Classification System.			12.0
						343.0

Zone of Core Loss
-12.5 to -40.2

FOR
CORRELATION
ONLY

(Revised by Amendment No. 0001)

SAVANNAH HARBOR BORING LOGS

From Station 70+000

To

Station 79+000

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		Hole No. SH-30	
1. PROJECT Savannah Harbor				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon		SHEET 1 OF 2 SHEETS	
2. LOCATION (Coordinates or Station) See Plan Sta 77+000N, R= "31" (X-832180 Y-759915)				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-30				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5	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 17 Nov 77	COMPLETED 17 Nov 77
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0 MLW			
9. TOTAL DEPTH OF HOLE -55.5'				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	0b	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.

B1-34

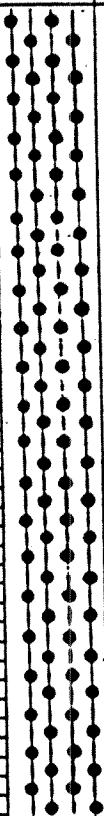
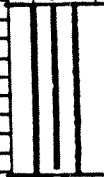
BLOWS PER FOOT:

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-30		
PROJECT Savannah Harbor		INSTALLATION Savannah, GA		SHEET 2 OF 2 SHEETS		
ELEVATION a	DEPTH 30' 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
-31.5			Water Bottom of river -31.5'		JAR	Blows
			OL - Black organic silt		1	0
-35.5	35'					0
			SC - Gray clayey sand		2	4
-40.0	40'					12
			CL - Green silty clay		3	14
						19
-45.0	45'					21
			MH - Green fat clayey silt		4	23
						26
	50'					44
						6
						79
					5	90
						100/0.5
-55.5	55'					97
			Bottom of hole -55.5' MLW			100

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		Hole No. SH-31	
1. PROJECT Savannah Harbor				10. SIZE AND TYPE OF BIT 1 3/8" ID split spoon		SHEET 1 OF 2 SHEETS	
2. LOCATION (Coordinates or Station) Sta 76+000N, R="30" (X-833000 Y-759415)				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-31				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 9 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 30 Oct 77		STARTED 30 Oct 77 COMPLETED	
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'					
	5'		Water			
	9.0		Bottom of river -9.0'		JAR	
	10'		SM - Greenish gray fine silty sand and soft silt mixture		1	BLOWS
	15'		Gray and tan, fine and medium silty sand		2	6
	18.0					7
	19.5		SM - Gray soft fat clayey silt		3	7
	20'		SM - Tan and gray silty fine and medium sand		4	9
	23.0					25
	25'		SC - Gray clayey fine sand		5	27
	27.0					26
	30.0		SM - Green fine cemented silty sand, very hard		6	28
	30'		Continued on sheet 2			32
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.			88
						100/0.5
						BLOWS PER FOOT: Number required to drive 1 3/8" ID split spoon w/ 140 lb hammer falling 30"

DRILLING LOG (Cont Sheet)		LOCATION TOP OF HOLE		0.0 MLW		Hole No. SH-31	
PROJECT			INSTALLATION			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	
-51.0	35'		SM - Green fine cemented silty sand		7	100/0.7	79
						97	
						95	
						100	
	40'					100/0.3	
						99	
						100/0.8	
						95	
					45'	8	100/0.5
-55.5	50'		MH - Dark green fine sandy and clayey silt with traces of mica		9		96
						90	
						94	
						77	
	55'		Bottom of hole -55.5' MLW				88
							63
							66

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		Hole No. SH-32	
1. PROJECT Savannah Harbor				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon			
2. LOCATION (Coordinates or Station) Sta 72+000N, R="27"				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-32				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5	
5. NAME OF DRILLER Perry Rountree				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 16 Nov 77	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE		COMPLETED 16 Nov 77	
9. TOTAL DEPTH OF HOLE -56.0' MLW				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR CHARLES D. GRIFFIN			

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-MLW	0'	c	d	e	f	g
	5'		Water			
	10'					
	15'					
	20'					
	25'					
	30'					
-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
3/8" ID splitspoon w/
140 lb hammer falling 30"

DRILLING LOG (Cont Sheet)		ATION TOP OF HOLE		0.0 MLW		Hole No. SH-32	
PROJECT Savannah Harbor			INSTALLATION Savannah, GA			SHEET 2 OF 2 SHEETS	
ELEVATION a	DEPTH 30'	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV. e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
-32.0			Water Bottom of river -32.0'		JAR	BLOWS	
			SM - Gray and tan silty fine and medium sand		1	1	
	35'					2	
					2	4	
						6	
-40.0	40'		SP - Tan poorly graded sand		3	17	
						20	
	45'		With some gravel			28	
						41	
-48.0			SM - Dark green fine cement- ed silty sand		4	39	
	50'					50	
						88	
						100/0.6	
						100/0.9	
	55'				5	97	
-56.0			Bottom of hole -56.0' MLW			93	

Hole No. SH-33

DRILLING LOG		DIVISION Sout. 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) Sta 71+000N, R= "26" (X-837665 Y-758015)				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-33				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6	UNDISTURBED 0
5. NAME OF DRILLER A. L. Padgett				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		STARTED 28 Nov 77	COMPLETED 28 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	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'	c	d	e	f	g	
	5'		Water				
	10'						
	15'						
	20'						
	25'						
	30'						
-30.0							

Continued on sheet 2

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

BLOWS PER FOOT:

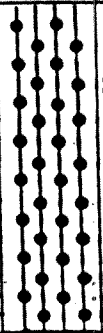
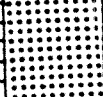
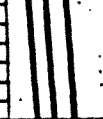
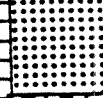
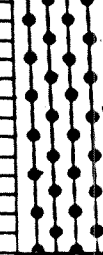
Number required to drive 1 3/8" ID splitspoon w/

DRILLING LOG (Cont Sheet)		STATION TOP OF HOLE		Hole No.			
PROJECT Savannah Harbor		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. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) f	BLOWS
-32.0			Water Bottom of river -32.0'				
	35'		SM - Gray silty fine and medium sand with thin soft silt layers		1		9
							7
					2		21
							46
	40'						28
							17
-42.5			MH - Dark greenish gray fat clayey silt		3		15
-44.0	45'				4		11
			SM - Green silty fine sand				27
							31
					5		32
	50'		Fine cemented sand, very hard				100/0.9
							98
							100
							90
	55'				6		89
-56.0			Bottom of hole -56.0' MLW				

DRILLING LOG		DIVISION		INSTALLATION		Hole No. SH-34	
1. PROJECT		South Atlantic		Savannah, GA		SHEET 1 OF 2 SHEETS	
2. LOCATION (Coordinates or Station)		Sta 70+000N, R="26" (X-838665 Y-758100)		10. SIZE AND TYPE OF BIT		1 3/8" ID splitspoon	
3. DRILLING AGENCY		Savannah District		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		MTW	
4. HOLE NO. (As shown on drawing title and file number)		SH-34		12. MANUFACTURER'S DESIGNATION OF DRILL		Sprague and Henwood	
5. NAME OF DRILLER		Perry Rountree		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 11 UNDISTURBED 0	
6. DIRECTION OF HOLE		☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES			
7. THICKNESS OF OVERBURDEN		55.0		15. ELEVATION GROUND WATER			
8. DEPTH DRILLED INTO ROCK		0.0'		16. DATE HOLE		STARTED 31 Oct 77 COMPLETED 2 Nov 77	
9. TOTAL DEPTH OF HOLE		-55.0' MTW		17. ELEVATION TOP OF HOLE		0.0 MTW	
				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)
0.0 = MTW	0b	c	d	e	f	g
			Water			
-4.0	5'		Bottom of river -4.0'		JAR	
			SM - Gray silty fine sand		1	BLOWS 7
-8.5	10'		MH - Gray soft clayey silt		2	5
-10.5			SM - Gray silty fine and medium sand		3	7
	15'		With some soft silt pockets		4	1
			Gray and brown			4
	20'					8
						15
	25'		Gray fine silty sand		5	35
						30
	30'		Gray fine sand with soft silt pockets		6	33
-30.0			Continued on sheet 2			31
			NOTE: Soils field classified in accordance with the Unified Soil Classification System			31
						25
						21
						20
						24
						25

BLOWS PER FOOT:
 Number required to drive 1 3/8" ID splitspoon w/

DRILLING LOG (Cont Sheet)		LOCATION TOP OF HOLE		0.0 MLW		Hole No. SH-34	
PROJECT			INSTALLATION			SHEET 2	
Savannah Harbor			Savannah, GA			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)	
a	38'	c	d	e	JAR	g	BLOWS
			SM - Gray fine silty sand with soft silt pockets				19
							18
							12
	35'						20
							28
-38.5							34
	40'		SP - Light tan poorly graded sand		7		30
-41.5							18
			MH - Dark gray soft clayey silt		8		3
							5
-45.0	45'				9		19
			SP - Tan poorly graded sand				20
-48.0					10		68
	50'		SM - Dark green very fine cemented silty sand, hard slightly clayey				87
							79
					11		93
							90
-55.0	55'		Bottom of hole -55.0' MLW				

DRILLING LOG		DIVISION South-Atlantic		INSTALLATION Savannah, GA		Hole No. SH-74	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon, 4"		SHEET 1 OF 1 SHEETS	
2. LOCATION (Coordinates or Station) See Plans X-831538, Y-760600				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW		Fishtail	
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-74		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 3		UNDISTURBED	
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 48.7'		16. DATE HOLE STARTED 17 Sep 82 COMPLETED 27 Sep 82		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 48.7'		19. SIGNATURE OF INSPECTOR J. Arthur, Geologist					

ELEVATION MLW	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
-23.3'	25		Water			Note: Scale change at 25.0'
-27.0'			Bottom of Harbor 23.3'		JAR	Blows
			SP-Grayish green medium to coarse poorly graded sand.		1	Note: Weight of tool string drove split-spoon from 23.3' to 25.5'. 17 Sep 82 Hole not completed. Barge moved to yard for repairs. 27 Sep 82 Returned to site, set casing to 25.7; washed hole to 30.7' and resumed boring.
-30.7	30		(See Remarks)			
-33.7'			No Recovery			
			SP-Light gray fine to medium poorly graded sand with some mica		2	33.7' to 36.7' Took a double drive to retain sample.
-36.7'	35		No Recovery			Note: All no recovery drives had fine sand in wash water.
						39.7' to 42.7' Took a double drive but sample fell back in hole.
-42.7'	40					42.7' to 48.7' Drove splitspoon continuously for four drives to retain sample.
			SP-Light gray coarse poorly graded sand with trace of fine gravel		3	Note: Terminated hole at 48.7' due to excess time required to clean hole and to obtain samples.
-48.7'	50		Bottom of Hole: 48.7'			
			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 0".

Sample Lab
No. Class LL PL PI
2 SP NP NP NP

DRILLING LOG

DIVISION
South AtlanticINSTALLATION
Savannah, GASHEET 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) See Plan X-832161, Y-759975		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) Fishtail MLW 4X5 1/2" core 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-75		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED 9
5. NAME OF DRILLER D. Laroche		UNDISTURBED 0	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES 0	
7. THICKNESS OF OVERBURDEN 61.4'		15. ELEVATION GROUND WATER	
8. DEPTH DRILLED INTO ROCK 0.0'		16. DATE HOLE STARTED 20 Sep 82 COMPLETED 21 Sep 82	
9. TOTAL DEPTH OF HOLE 61.4'		17. ELEVATION TOP OF HOLE 0.0' MLW	
		18. TOTAL CORE RECOVERY FOR BORING 92 %	
		19. SIGNATURE OF INSPECTOR J. Arthur, Geologist	

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)
MLW =	0'	c	d	e	f	g
-21.4'	20		Water			Note: Change of scale at 20.0'.
			Bottom of Harbor 21.4'		JAR	Blows
	25		MH-Gray, fat silt, with some fine sand and pieces of wood.		1	Note: 21.4' to 28.1' Weight of tool string drove splitspoon. Continued drive with 6 blows to 28.7' then tool dropped from 28.7' to 36.4'. Sample Lab No. Class LL PL PI 7 CL 38 24 14 8 SM-H 104 45 59
-36.4'	30					
-37.9'	35		SM-Gray fine silty sand with some mica and fat silt layers.		2	
-40.7'	40		(See Remarks)			Note: 37.9' to 40.7' Inadvertantly cleaned out hole.
-43.7'	45		SM-Gray fine silty sand with some mica.		3	
-45.2'			Grayish green fine silty sand with some mica and fine to coarse gravel 44.'-44.2'		4	
-46.7'			With some shell fragments		5	
-47.5'			With some fine to coarse gravel			
			Continued on Sheet #2			Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".
			Note: Soils filed classified in accordance with the Unified Soil Classification System			

DRILLING LOG (Cont Sheet)

ATION TOP OF HOLE

0.0' MLW

Hole No. SH-75

PROJECT
Savannah Harbor Widening

INSTALLATION
Savannah, GA

SHEET 2
OF 2 SHEETS

ELEVATION a	DEPTH 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
-47.5'	47.5					
-48.2'			SM-Continued			
-48.7'			(See Remarks)			
-50.2'	50		MH-Gray fat silt with some fine sand.		6	Note: 48.2'-48.7' washed 46
-53.2'			Green with trace of fine sand, layer of fine sand 52.1' to 52.2'			46
-54.4'	55		SM-Green fine silty sand with trace of fine gravel		7	Note: Scale change at 55.0' 36
	57		CH-Green fat clay with some shell fragments, mica, and fine sand, partially indurated.	83%	8	Pull 1 54.4' to 56.6' Run 2.2' Rec 0.0' CL 2.2' (fell in hole) JAR #8 54.4' to 54.6'
	59		54.9'-61.4' with less shell fragments	100%	Box 1	Pull 2 56.6' to 61.4' Run 4.8' Rec 6.6' C.G. 1.8' JAR #9 60.8' to 61.0'
-61.4'	61		Bottom of Hole: 61.4'		9	

DRILLING LOG		DIVISION South lantic		INSTALLATION Savannah, GA		SHEET 1 OF 2 SHEETS	
PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon			
LOCATION (Coordinates or Station) X-831246, Y760972				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
DRILLING AGENCY Savannah District				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
HOLE NO. (As shown on drawing title and file number) SH-91				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 9	UNDISTURBED 0
NAME OF DRILLER Earl Maulden and T.W. Scott				14. TOTAL NUMBER CORE BOXES 0			
DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER 0.0 MLW			
THICKNESS OF OVERBURDEN 50.5' (water & soil)				16. DATE HOLE		STARTED 18 Sep 83	COMPLETED 18 Sep 83
DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0 MLW			
TOTAL DEPTH OF HOLE 50.5'				18. TOTAL CORE RECOVERY FOR BORING 2			
				19. SIGNATURE OF INSPECTOR James E. Bolen Geologist <i>James E. Bolen</i>			
LEVATION	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
-9.2	10		Sea Water 0.0'-9.2' Bottom of Harbor: 9.2'		1	Note: Change of scale at 10.0'	
-14.4	15		MH-Dark green fat clayey silt with a little medium sand		2	Note: Weight of tools 9.2'-14.4'	
	20		SM-Gray silty medium fine sand with laminations of dark green fat clay 10%		3	Note: After driving to 15.9' cleaned out boring 16.0' following drive 16.0'-17.5'	8 11 4 14 13 5 12 23 20
-29.5	30		High silt content		4	Note: At 17.5' set 6" diameter steel casing to 17.5'.	
	35		With wood chips		5	Advanced casing to 29.7'	10 10 11
-32.5	40		MH-Dark gray fat clayey silt with some wood chips		6	Sample Lab	
			CH-Dark gray-green silty fat clay		7	No. Class LL PL PI	11
					8	3 SP-SM NP NP NP	11
						5 CH 59 25 34	12
						7 CL 39 18 21	11
						9 SW NP NP NP	9..
-40.0	40		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".	8

DRILLING LOG (Cont Sheet)

ELEVATION TOP OF HOLE

0.0' MLW

PROJECT

Savannah Harbor Widening

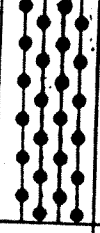
INSTALLATION

Savannah, GA

Hole No. SH-91

SHEET 2

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)
-40.0	40 b	c	d	e	JAR	R Blows
			CH-Dark gray green silty fat clay With 30% medium fine sand			Note: Advanced casing 7 to 45.0'.
-44.5	45		SM-Gray, brown silty coarse medium sand, with 10% fine gravel, low silt content		9	3'
						21
						17
						16
-50.5	50					50
			Bottom of Hole: 50.5'			38

DRILLING LOG

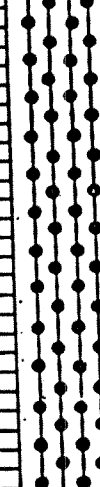
DIVISION
South AtlanticINSTALLATION
Savannah, GASHEET 1
OF 1 SHEETS

1. PROJECT Savannah Harbor Widening		10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon	
2. LOCATION (Coordinates or Station) X-833760, Y-759260		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-92		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED 6
5. NAME OF DRILLER Earl Maulden		14. TOTAL NUMBER CORE BOXES	UNDISTURBED 0
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER	()
7. THICKNESS OF OVERBURDEN 50.5'		16. DATE HOLE	STARTED 19 Sep 83
8. DEPTH DRILLED INTO ROCK 0.0'		COMPLETED 19 Sep 83	
9. TOTAL DEPTH OF HOLE 50.5'		17. ELEVATION TOP OF HOLE 0.0 MLW	
		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 RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			Sea Water 0.0'-35.2'		JAR	Blows
	10					
	20					
	30					
	35		Bottom of Harbor: 35.2'			
-35.2			MH-Dark green fat clayey silt with a trace of sand		1	Note: Change of scale at 30.0' Sample Lab No. Class LL PL PI 1 CH 125 38 87 3 SP NP NP NP 5 CH 103 29 74
-36.8			SM-Gray silty coarse medium sand, moderate silt content		2	Note: At 38.3' set 6" diameter casing steel to 38.5'. 9
	40				3	Following drive was 38.5'-40.0' 15
	45					Note: Casing is advanced 1.5' after each drive while sampling in SM material. 43
	50		ML-Dark green clayey silt with 15% fine sand		4	25
-48.5			Bottom of Hole: 50.5'		5	70
-50.5			Note: Soils field classified in accordance with the Unified Soil Classification System.		6	85
						Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30". 27
						44

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah GA		Hole No. SH-93	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon			
2. LOCATION (Coordinates or Station) X-834780 Y-759030				11. DATUM FOR ELEVATION SHOWN (THM 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-93				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 12 UNDISTURBED 0	
5. NAME OF DRILLER E. Maulden				14. TO NUMBER CORE BOXES		0.0	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER		0.0 MLW	
7. THICKNESS OF OVERBURDEN 51.0' including water				16. DATE HOLE STARTED 12 Sep 83 COMPLETED 20 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	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
a	b	c	d	e	f	g
0.0	0		Sea Water 0.0'-11.1'		JAR	Note: Change of scale 10.0'.
-11.1	10		Bottom of Harbor 11.1'			
			MH-Black green fat clayey silt with 15% medium fine sand		1	Note: Weight of tools 11.1'-16.6'
	15				2	Sample Lab
			SM-Dark green silt medium fine sand with lenses of clay 25%.		3	No. Class LL PL PI
	20					2 CH 138 41 97
						4 SP-SM NP NP NP
						6 CH 81 30 5111
						8 SM 37 30 7
						10 SP NP NP NP10
-21.0	25		CH-Dark gray silty fat clay with wood chips 10% (possibly an old piling)		4	Note: After driving to 21.1'. Cleaned out boring to 21.0'. Following drive was 21.0'-22.5' set 6" diameter steel casing to 22.5'
	30				5	Weight of tools 25.5'-28.4'. Cleaned out to 30.0'
					6	
					7	
					8	Weight of hammer 31.5'-32.9'. After driving to 34.4' cleaned out to 34.5'. Next drive was 34.5'-36.0'.
-34.5	35		SC-Alternating lenses of gray silty medium fine sand and lean clay			Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".
-35.0			Continued on Sheet 2 Note: Soils field classified in accordance with the Unified Soil Classification System.			

DRILLING LOG (Cont Sheet)		ELEV. IN TOP OF HOLE		0.0 MLW		Hole No. SH-93	
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	35.0	c	d	e	JAR	R	Blows
-37.5	40		SC-Alternating lenses of gray silty medium fine sand and lean clay		8	Note: 36.0' advanced casing to 36.0'	29
			SM-Gray silty coarse medium sand (low silt content)		9		30
					10		100/0.8
							42
-51.0	45		Silty coarse, fine sand (moderate silt content)		11		100/0.9
							34
							48
							56
	50				12		34
			Bottom of Hole: 51.0'			Note: Casing must be advanced approximately once for every 3" feet of sampling in order to keep boring open.	68

Hole No. SH-96

DRILLING LOG		DIVISION Southeast Atlantic		INSTALLATION Savannah, GA		SHEET 1 OF 1 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 3/8" ID splitspoon			
2. LOCATION (Coordinates or Station) X 835825, Y 758595				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-96				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 4 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 50.4 includes water				16. DATE HOLE		STARTED 22 Sep 83 COMPLETED 22 Sep 83	
8. DEPTH DRILLED INTO ROCK 0.0				17. ELEVATION TOP OF HOLE 0.0 MLW			
9. TOTAL DEPTH OF HOLE 50.4				18. TOTAL CORE RECOVERY FOR BORING N/A			
				19. SIGNATURE OF INSPECTOR James E. Bolen, Geologist <i>J.E. Bolen</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	Blows	
	10		Sea Water 0.0'-32.9'			Sample Lab	
	20					No. Class LL PL PI	
	30					1 SP NP NP NP	
	40					4 SP NP NP NP	
	50					Note: Change of scale at 30.0'.	
-32.9	35		Bottom of Harbor 32.9'			Note: Weight of tools 32.9'-33.8'.	
	40		SM-Brown silty coarse, fine sand, moderate silt content		1	At 36.8' set 6" casing to 37.0'.	
	45				2	Following drive is 37.0'-38.5'. Weight of tools 38.5'-40.0'. 20	
	50				3	Note: Casing must be advanced continually after each drive while sampling SM material.	
					4	100/0 9	
			Bottom of Hole: 50.4'			Blows Per Foot: Number required to drive 1 3/8" splitspoon w/140 lb. hammer falling 30".	
			Note: Soils field classified in accordance with the Unified Soils Classification System.				

DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor Widening		South Atlantic		Savannah, GA			
2. LOCATION (Coordinates or Station) X-836803 Y-758332				10. SIZE AND TYPE OF BIT 1 3/8" ID 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-98				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314			
5. NAME OF DRILLER E. Maulden-T.W. Scott				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKE		DISTURBED 8	UNDISTURBED 0
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				14. TOTAL NUMBER CORE BOXES 0			
7. THICKNESS OF OVERBURDEN 50.5' includes water				15. ELEVATION GROUND WATER 0.0 MLW			
8. DEPTH DRILLED INTO ROCK 0.0'				16. DATE HOLE		STARTED 23 Sep 83	COMPLETED 24 Sep 83
9. TOTAL DEPTH OF HOLE 50.5'				17. ELEVATION TOP OF HOLE 0.0 MLW			
				18. TOTAL CORE RECOVERY FOR BORING N/A			
				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.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0	0	b	c	d	e	JAR	g Blows
	10		Sea Water 0.0'-15.2'				Note: Change of scale at 10.0'
							Sample Lab
							No. Class LL PL PI
							2 SP NP NP NP
							4 SP NP NP NP
							8 SP NP NP NP
-15.2	15		Bottom of Harbor 15.2'				
			SM-Gray, green silty medium fine sand moderate silt content		1		Note: Weight of tools 15.2'-15.8'. 12
							After driving to 21.8'; cleaned out hole to 22.0'. 28
	20				2		Following drive was 22.0'-23.5'. 12
							6" steel casing set to 23.5'. Must be advanced 1.5' after each drive. 16
			With minor coarse sand		3		53
	25						47
							100
							24
	30				4		33
							25
							39
-35.0					5		29
			Continued on Sheet 2				
			Note: Soils field classified in accordance with the Unified Soils Classification System.				Blows Per Foot: Number required to drive a 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-98

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	c	d	e	JAR	f
			SM-Gray brown silty coarse, fine sand.		5	Blows 48
						38
						37
	40				6	29
						33
						100/0.7
	45		Silty medium, fine grained sand		7	59
						54
						72
	50				8	78
-50.5			Bottom of Hole: 50.5'			100/0.8

Hole No. SH-100

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-837669 Y-758108		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-100		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED 12	UNDISTURBED 0
5. NAME OF DRILLER E. Maulden		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' includes water		16. DATE HOLE	STARTED 25 Sep 83	COMPLETED 25 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 T.W. Scott and J.E. Bolen <i>J. 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	Blows
			Sea Water 0.0'-14.0'			Note: Change of scale at 10.0'	
-14.0	10		Bottom of Harbor 14.0'				
-14.4	15		MH-Gray fat clayey silt		1	Note: Weight of tools	7
			SM-Green silty medium, fine sand		2	14.0'-14.4'. After driving to	14
					3	17.4' cleaned out to 17.5'.	7
-20.5	20		SC-Alternating lenses of green silty medium, fine sand and fat clay		4	6" diameter casing was set to 17.5' and periodically advanced 1.5' after each drive until sampling to 44.0'.	6
-25.0	25		SM-Green silty coarse, medium sand		5		0
-28.0	30		CH-Dark gray silty fat clay		6		7
						Sample Lab	0
						No. Class LL PL PI	6
						2 SP NP NP NP	25
						4 SC-H 57 22 35	
						7 CH 144 41 103	
						10 SP-SM NP NP NP	
						Weight of tools	
						28.0'-32.5'	5
-35.0	35		Continued on Sheet 2		7	Blows: Per Foot: Number required to drive a 1 3/8" ID splitspoon w/140 lb. hammer falling 30".	
			Note: Soils field classified in accordance with the Unified Soils Classification System.				

DRILLING LOG (Cont Sheet)

ELEVATION TOP OF HOLE

0.0 MLW

Hole No. SH-100

PROJECT

Savannah Harbor Widening

INSTALLATION

Savannah, GA

SHEET 2

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)
-35.0	35	c	d	e	JAR	Blows
			CH-Dark blue silty fat clay		7	
	40				8	Note: 37.0'-39.5' weight of tools
-44.0					9	
	45		SM-Gray silty medium fine sand		10	
					11	
-50.0	50		Gray silty coarse, medium sand with 15% fine gravel		12	
			Bottom of Hole: 50.0'			100/0.9

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-838598 Y-758040				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-101				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 13	UNDISTURBED 0
5. NAME OF DRILLER E. Maulden				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' includes water				16. DATE HOLE		STARTED 25 Sep 83	COMPLETED 26 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 T.W. Scott and J.E. Bolen <i>J.E. Bolen</i>			
ELEVATION 0.0 _a	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) f	
	10		Sea Water 0.0'-15.2'			Note: Change of scale at 10.0'	
-15.2	15		Bottom of Harbor 15.2'				
-16.9			CH-Bluish gray silty fat clay		1	Note: Weight of tools 15.2'-15.4'	
-18.5			SM-Gray silty medium, fine sand		2	Cleaned out boring to 18.5' 14	
	20		CH-Gray-blue silty fat clay		3	Set 6" diameter steel casing to 21.5' 18	
					4	Sample Lab No Class LL PL PI 12	
-23.0			SC-Alternating layers of gray silty coarse, medium sand and fat clay			3 CH 142 38 104 14	
	25				5	5 SC-H 73 23 50 0	
-26.0			CH-Dark gray silty fat clay with sand laminations 15% of sample		6	7 SP-SM NP NP NP 4	
	30					10 SP .. NP NP NP 4	
						Weight of tools 26.0'-30.9'	
	35		SM-Gray silty medium, fine sand with lenses of fat clay		7	Note: At 32.4' cleaned out hole to 32.5'. Weight of tools 32.5'-34.8' 8	
-34.8							
-35.0			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". 0	

DRILLING LOG (Cont Sheet)			ELEVATION TOP OF HOLE		Hole No. SH-101	
PROJECT			INSTALLATION		SHEET 2	
Savannah Harbor Widening			Savannah, CA		OF 2 SHEETS	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant.) g
-35.0	35	c	d			
			SM-Gray silty medium fine sand with lenses of clay 10%		8	
					9	
	40		Gray silty coarse medium sand with 10% fine gravel		10	
					11	
	45					
					12	
	50				13	
-50.0			Bottom of Hole: 50.0'			

DRILLING LOG

DIVISION
South AtlanticINSTALLATION
Savannah, GASHEET 1
OF 2 SHEETS

1. PROJECT

Savannah Harbor Widening

2. LOCATION (Coordinates or Station)

X-838175 Y-758052

3. DRILLING AGENCY

Savannah District

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

SH-102

5. NAME OF DRILLER

E. Maulden

6. DIRECTION OF HOLE

☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.

7. THICKNESS OF OVERBURDEN

50.0' includes water

8. DEPTH DRILLED INTO ROCK

0.0'

9. TOTAL DEPTH OF HOLE

50.0'

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

11. DATUM FOR ELEVATION SHOWN (TBM or MSL)

MLW

12. MANUFACTURER'S DESIGNATION OF DRILL

Failing 314

13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN

DISTURBED
11UNDISTURBED
0

14. TOTAL NUMBER CORE BOXES

0

15. ELEVATION GROUND WATER

0.0 MLW

16. DATE HOLE

STARTED
30 Sep 83COMPLETED
30 Sep 83

17. ELEVATION TOP OF HOLE

0.0 MLW

18. TOTAL CORE RECOVERY FOR BORING

N/A

19. SIGNATURE OF INSPECTOR

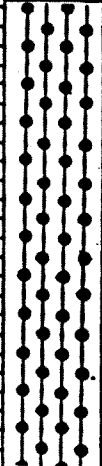
James E. Bolen, Geologist

James E. Bolen

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	Blows
			Sea Water 0.0'-2.0'			
			Bottom of Harbor 2.0'			
-2.0	5		MH-Dark gray fat clayey silt with 15% medium grain- ed sand		1	Note: Weight of tools 2.0'-7.4'
-7.4	10		SM-Gray silty coarse medium sand, moderate silt content		2	Note: At 10.4' cleaned ou to 10.5' Next drive was
	15				3	10.5'-12.0.
	20					At 13.5' set 6" diameter steel
	25					casing to 13.5'
	30					Weight of tools 16.5'-17.2'
	35				4	Next drive 17.2'- 18.7'
	40					Weight of tools 19.0-20.0'
	45					Weight of tools 24.5'-26.5'
	50		With lenses of clay 10%		5	Sample Lab
						No. Class LL PL PI
						1 CH 86 34 52
						4 SP-SM NP NP NP
						6 SM NP NP NP
						7 MH 80 40 40
						9 MH 70 35 35
						10 SP-SM NP NP NP
						Weight of tools
						28.0'-29.1'
						W/T
						Blows Per Foot: Number required to drive 1 3/8" ID splitpoon w/140 lb. hammer falling 30".
						Note: W/T=Weight of

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 splitpoon w/140 lb.
hammer falling 30".
Note: W/T=Weight of

DRILLING LOG (Cont Sheet)			TION TOP OF HOLE		0.0 MLW		HOLE NO. SH-102				
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.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)					
-30.0	30	c	d	e	JAR	g	Blows				
-37.7	35		CH-Dark gray silty fat clay with some black wood chips		8	Weight of tool	6				
						29.1'-30.6'.	W/T				
					9	Weight of tool	5				
						30.5'-31.7'.					
					:	Weight of tool	W/T				
						33.2'-35.7'					
						Weight of tool	18				
						37.2'-37.7'.	W/T				
					10	Note: At 40.7'	28				
						cleaned out to 41.0'	36				
-50.0	40		SM-Gray silty coarse, medium sand with some small clay lenses (moderate silt content)			Next drive is					
						41.0'-42.5'.	36				
							36				
							60				
					11		40				
							51				
							77				
							97				
			Bottom of Hole: 50.0'			Note: 6" diameter casing must be advanced 1.5' after every drive.					
						Note: W/T = Weight of tools including 140 lb. hammer.					

Hole No. SH-103

DRILLING LOG

DIVISION
South AtlanticINSTALLATION
Savannah, GASHEET 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 837283, Y 758195		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-103		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED 11
5. NAME OF DRILLER T.W. 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 46.8'		16. DATE HOLE	STARTED 4 Oct 83 COMPLETED 6 Oct 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 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 b	c	d	e	JAR	g Blows
-3.4			Sea Water 0.0'-3.4'			
			Bottom of Harbor 3.4'			
	5		SM-Green-gray silty sands interlayered with dark gray silt (MH)		1	Note: W/T = Weight of tools including W/T 140 lb. hammer.
	10		MH stringer at 10.5'		2	
	15					
	20		Occasional thin (0.03') MH layers Somewhat coarser than previous sample.		3	
	25		Fine to medium grained		4	
	30		Occasional dark gray silty layer. Noticeably finer than previous sample.		5	
-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 Shee. 11)		ELEVATION TOP OF HOLE		0.0 MLW		Hole No. SH-103	
PROJECT			INSTALLATION			SHEET 2	
Savannah Harbor Widening			Savannah District			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)	
-30.0	30b	c	d	e	JAR	B	Blows
			SM-Green-gray fine to medium grained silty sand				22
					6		34
							20
	35						35
					7		47
							54
	40						49
							59
-41.5			SP-Green-gray medium sand		8		43
-43.0			SM-Green-gray fine to medium grained silty sand				11
	45						48
-47.0			GP-Poorly graded sandy gravel		9		58
-47.5			SM-Gray fine silty sand		10		59
			Green-gray very fine grained silty sand.		11		100/0.
-50.2	50		Bottom of Hole: 50.2'				

Hole No. SP-104

DRILLING LOG

DIVISION
South AtlanticINSTALLATION
Savannah, GASHEET 1
OF 2 SHEETS1. PROJECT
Savannah Harbor Widening

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

2. LOCATION (Coordinates or Station)
X 832612 Y 75966011. DATUM FOR ELEVATION SHOWN (TBM or MSL)
MLW

3. DRILLING AGENCY

12. MANUFACTURER'S DESIGNATION OF DRILL

Savannah District

Failing 314

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

SH-104

13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN

DISTURBED
14UNDISTURBED
0

14. TOTAL NUMBER CORE BOXES

0

15. ELEVATION GROUND WATER

N/A

5. NAME OF DRILLER
T.W. Scott

16. DATE HOLE

STARTED
6 Oct 83COMPLETED
7 Oct 836. DIRECTION OF HOLE
☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.

17. ELEVATION TOP OF HOLE

0.0 MLW

7. THICKNESS OF OVERBURDEN

38.0'

18. TOTAL CORE RECOVERY FOR BORING

N/A

8. DEPTH DRILLED INTO ROCK

0.0

19. SIGNATURE OF INSPECTOR

Thaddeus J. Zielonka

9. TOTAL DEPTH OF HOLE

49.5'

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
0.0	0					
	5		Sea Water 0.0'-11.5'			Sample Lab No. Class LL PL PI 4 SP NP NP NP 7 SM-H NP NP NP 8 SM 47 31 16 11 SM 41 26 15 12 SM - - -
-11.5	10		Bottom of Harbor 11.5'			
	15		SM-Dark gray fine to medium grained silty sand with MH streaks Color change to gray. Fewer streaks of MH. Slightly coarser. Change to green-gray fine to coarse grained silty sand with some gravel. Wood chips		1 2 3 4 5 6 7 8	Note: W/T Weight of W/T tools and .140 lb. hammer. 12 12 5 9 18 47 16 29 70 69
-23.5	25		GC-Dark gray clayey gravel			
-25.0	25		SM-Green-gray very fine silty sand.			
-30.0	30		Continued on Sheet 2 Note: Soils field classified in accordance with the Soil Classification System.			Blows Per Foot: Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling. 30". 100/0.5

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		0.0 MLW		Hole No. SH-104	
PROJECT			INSTALLATION			SHEET 2	
Savannah Harbor Widening			Savannah District			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:)	
-30.0	30 b	c	d	e		g	Blows
			SM-Green-gray very fine silty sand.				100
-33.0							100/0.8
-34.5			GM-Green-gray silty sandy		9		100/0.5
-35.2	35		gravel		10		
			GP-Gray poorly graded		11		100/0.5
-36.0			sandy gravel		12		100/0.7
			GM-Green-gray silty				80
			sandy gravel with some				
			clay				
	40		SM-Green-gray fine silty sand.		13		57
							90
							79
	45						35
					14		41
							36
							31
-49.5	50		Bottom of Hole: 49.5'				

Hole No. SH-106

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) Y-834350 Y-759005				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-106				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 4	UNDISTURBED 0
5. NAME OF DRILLER Earl Maulden and Avery Yates				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 14.4'				16. DATE HOLE STARTED 12 Oct 83 COMPLETED 16 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 Thaddeus J. Zielonka, 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)	
0.0	0		Sea Water 0.0'-36.1'			Note: Change of scale at 30.0'	
	30					Sample Lab No. Class LL PL PI 1 SP NP NP NP	
	35		Bottom of Harbor 36.1'				
	40		SM-Tan fine to coarse grained silty sand with wood chips and occasional gravel		1	Note: W/T = Weight of tools and 140 lb hammer.	
	45		Fine to medium grained below 41.5'.		2	31	
	50		Trace of river gravel		3	22	
					4	29	
						20	
						45	
						56	
						63	
						72	
			Bottom of Hole: 50.5'			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 System.				

DRILLING LOG		DIVISION		INSTALLATION		Hole No. SH-122	
1. PROJECT		South Atlantic		Savannah District		SHEET 1 OF 2 SHEETS	
2. LOCATION (Coordinates or Station)		X-835410 Y-758830		10. SIZE AND TYPE OF BIT		1 3/8" ID Spitspoon	
3. DRILLING AGENCY		Savannah District		11. DATUM FOR ELEVATION SHOWN (TBM or ASL)		MLW	
4. HOLE NO. (As shown on drawing title and file number)		SH-122		12. MANUFACTURER'S DESIGNATION OF DRILL		GME 550	
5. NAME OF DRILLER		P. Rottree		13. TO THE NO. OF BURDEN SAMPLE TAKEN		DISTURBED 16 UNDISTURBED 0	
6. DIRECTION OF HOLE		☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		14. TO THE NO. OF CORE BOXES		N/A	
7. THICKNESS OF OVERBURDEN		65.0		15. ELEVATION GROUND WATER		N/A	
8. DEPTH DRILLED INTO ROCK		0.0		16. DATE HOLE		STARTED 2 Nov 83 COMPLETED 3 Nov 83	
9. TOTAL DEPTH OF HOLE		65.0		17. ELEVATION TOP OF HOLE		15.1	
				18. TOTAL CORE RECOVERY FOR BORING		N/A %	
				19. SIGNATURE OF INSPECTOR		James E. Rolen <i>James E. Rolen</i>	
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OF SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
15.1	0	c	d		JAR	BLOWS	
			CL-Dark brown lean clay with some silt and fine sand.		1	W.T. 7.0'	
12.1	3.0'					Date 2 Nov. 83	
	5		SM-Dark brown silty medium fine sand with some clay.		2	Depth to water during drilling	
					3	W.T. 6.3'	
6.1	9.0'					Water table reading 24 hrs. after hole completed.	
	10		SC-Gray clayey coarse-medium sand.		4		
			With wood chips and fibers.			Note: Fill material 0.0'-4.0'. Mixed mud at 7.5'.	
0.1	15.0'				5		
			MH- Dark green fat clayey silt with a trace of wood chips and fibers.			Note: W/T=Weight of Tools.	
-3.9	19.0'				6	SAMPLE LAB	
	20		SM-Dark green silty coarse medium sand. (moderate silt content).		7	No Class LL PL PI	
						1 CL 37 18 19	
-8.4	23.5'					4 SC-II 56 25 31	
	25		SC-Alternating layers of dark green fat clay and medium grained silty sand.			6 MH 93 44 49	
						8 SM-II 58 31 27	
						9 CH 130 44 36	
						11 SP-SM NP NP NP	
						12 SP-SM NP NP NP	
			MH- dark green fat clayey silt with 25% medium sand.		8		
-14.4							
-14.9	30				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 spitspoon w/140 lb. hammer falling 30".			

DRILLING LOG (Cont Sheet)		ION TOP OF HOLE 15.1'		Hole No. SH-122			
PROJECT Savannah Harbor Widening			INSTALLATION Savannah District		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) R BLOWS	
-14.9	30 b	c	d				
-18.9			MH- Dark green fat clayey silt with 25% medium sand.		9		

Hole No. SH-123

DRILLING LOG		DIVISION		INSTALLATION		SHEET	
		South Atlantic		Savannah Dist. 1st		1 OF 2 SHEETS	
1. PROJECT				10. SIZE AND TYPE OF BIT 1 3/8" ID Splitspoon			
Savannah Harbor Widening				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
2. LOCATION (Coordinates or Station)				MTW			
X-833424 Y-759382				12. MANUFACTURER'S DESIGNATION OF DRILL			
3. DRILLING AGENCY				CME 550			
Savannah District				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN			
4. HOLE NO. (As shown on drawing title and file number)				DISTURBED		UNDISTURBED	
SH-123				17		0	
5. NAME OF DRILLER				14. TOTAL NUMBER CORE BOXES			
P. Rountree				N/A			
6. DIRECTION OF HOLE				15. ELEVATION GROUND WATER			
☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				N/A			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE			
63.0'				STARTED		COMPLETED	
8. DEPTH DRILLED INTO ROCK.				4 Nov. 83		5 Nov. 83	
0.0'				17. ELEVATION TOP OF HOLE			
9. TOTAL DEPTH OF HOLE				12.3'			
63.0'				18. TOTAL CORE RECOVERY FOR BORING			
				N/A %			
				19. SIGNATURE OF INSPECTOR			
				James E. Rolen			
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)	
12.3	0						BLOWS
9.3			SM-Brown/black silty coarse fine sand (Moderate silt content). 3.0'		1		14
7.8	5		SC-Dark brown clayey medium sand. 4.5'		2		8
4.8			SM-Gray silty medium sand saturated. (Moderate silt content). 7.5'		3		9
3.3	10		MH-Dark gray fat clayey silt 9.0'		4		7
			SC-Alternating lenses of dark gray fat clay and silty medium sand. 13.5'		5		3
-1.2	15		SM- Gray silty medium sand moderate silt content. High silt content		6		3
	20						3
-8.7			MH-Dark gray fat clayey silt with a trace of sand. 24.0'		7		6
	25		SM-Gray silty medium fine sand with lenses of clay 10%.		8		4
-11.7							5
	30						6
-17.7							7
							12
							28
							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/1 lb. hammer falling 30".	

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No. SH-123			
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. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	BLOWS
-17.7	30 b	c	d	e			15
			SM-Gray silty medium fine sand with lenses of clay 10%. Very high silt content				5
	35		Gray/brown with wood chips, fibers and roots.		11		11
							5
							8
	40				12		8
							4
-29.7			42.0'				5
			Green silty fine sand very high silt content.		13		34
	45						50
							66
							82
	50				14		65
							49
							59
					15		63
	55						53
							43
							43
	60				16		43
-49.2			61.5'				44
			ML-Green sandy fine silt.		17		
-50.7			Bottom of Boring 63.0'				
			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/1 lb. hammer falling 30".	

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah District		Hole No. SH-124 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-833005 Y-759520				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY Savannah District				12. MANUFACTURE DESIGNATION OF DRILL CME 550			
4. HOLE NO. (As shown on drawing title and file number) SH-124				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 18 UNDISTURBED 0	
5. NAME OF DRILLER P. Rountree				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 61.5'				16. DATE HOLE STARTED 5 Nov 83		COMPLETED 6 Nov 83	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 10.7'			
9. TOTAL DEPTH OF HOLE 61.5'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR James E. Bolen		<i>James E. Bolen</i>	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS
10.7	0	b	c	d	JAR	(Drilling time, water loss, depth of weathering, etc., if significant)
			SM-Gray brown silty medium fine sand.		1	
7.7			With wood chips and roots			
6.2	5		SC- Gray clayey medium fine sand.		2	W.T. 3.0'
					3	Date 5 Nov. 83
			MH- Dark gray fat clayey silt with wood chips and roots.			Depth to water during drilling
0.3	10				4	
					5	Note: Mixed mud at 19.5'.
	15		SM- Gray silty medium fine sand (high silt content).		6	Sample Lab
						No. Class LL PL PI
						3 MH 128 56 72
						5 SM NP NP NP 9
						7 MH 151 66 85
						9 SP-SM NP NP NP 10
-8.8	20					12 ML 31 27 4
-10.3			MH-Dark gray fat clayey silt.		7	17 MH 98 61 37 7
			SM- Gray silty coarse medium sand.		8	
	25				9	
-19.3	30				10	
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-124
	10.7		
	INSTALLATION		SHEET 2

TOP 9

Hole No. SH-124

PROJECT _____

INSTALLATION

SHEET 2

OF 2 SHEETS

Savannah Harbor Widening

Savannah District

Savannah Harbor Widening			Savannah District			
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)
-19.3	30	c	d	e	f	g
						BLOWS
			SM- Grayish green silty coarse medium sand.			32
						15
						18
	35		36.0'		11	48
-25.3			Green silty fine sand (very high silt content) .		12	77
						85
	40				13	94
						100
						100/0.8
	45				14	100/0.8
						100/0.7
						100/0.7
						100/0.7
	50				15	100/0.7
						100/0.8
						90
	55				16	80
			57.0'			64
-46.3			ML- Dark green clayey silt with 25% fine sand.		17	50
						40
	60				18	30
-50.8			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 splitspoon w/140 lb. hammer falling 30".

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			
2. LOCATION (Coordinates or Station) X-831931 Y-760221				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-128		13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		DISTURBED 16	UNDISTURBED 0
5. NAME OF DRILLER C.D. Justiss				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN 64.5'				16. DATE HOLE STARTED		COMPLETED	
8. DEPTH DRILLED INTO ROCK 0.0'				15 May 1984		17 May 1984	
9. TOTAL DEPTH OF HOLE 64.5'				17. ELEVATION TOP OF HOLE 12.6'			
				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR Lou Archambault <i>[Signature]</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)	
12.6'	0'	c	d	e	JAR	BLOWS	
6.6'	5		SM-Tan & brown, fine to med. grained, dry, silty sand w/scattered gravel, twigs & grasses.		1	W.T. 6' Date 15 May 1984 Depth to water during drilling. W.T. 6' Water table reading 72 hrs. after hole completed.	28
							9
							7
							5
							2
							1
-0.9'	10		Brown with shell fragments.		2		0
						0	
-3.4'	15		CH-Grey fat clay w/organics.		3		3
						14	
-15.9'	20		SP-SM-Grey, green med.-poorly graded silty sand w/scattered mica.		4		32
						40	
						20	
						23	
						17	
						10	
-15.9'	25				5		16
						10	
						2	
-15.9'	30		SW-SM-Grey green fine to coarse grained silty sand w/mica.		6		2
(Con't. on sht. 2)							
NOTE: Soils field classified in accordance with the Unified Soil Classification System				FLOWS PER FOOT: Number required to drive 1 3/8" ID split spoon w/14			

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No.		SH-128	
PROJECT		INSTALLATION		SHEET 2		OF SHEETS	
Savannah Harbor Widening		Savannah River					
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
a	30 b	c	d	e		g	
			W/wood fragments				16
-20.4'			SP-SM-Grey green med. grained, silty sand w/mica throughout.		7		22
-21.9'	35		SW-SM-fine to med.grained silty sand w/mica.				35
			Occassional gravel.		8		33
							31
							37
							22
							20
					9		37
							25
							21
			Tan coarse - med.		10		37
							44
-36.9'	50		SP-SM-Light grey coarse grained silty sand.		11		40
							26
							21
							37
			Tan		12		43
			Medium grained.				31
							36
-47.4'	60		SW-SM-Grey green well graded silty sand.		13		10
-48.9'			CH-Grey fat clay.		14		1
-50.4'			SW-SM-Grey green well graded silty sand.		15		31
-51.4'			CH-Green fat clay.		16		
-51.9'	65		Bottom of Hole 64.5'				

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, 6" spiral	
2. LOCATION (Coordinates or Station) X=831848 Y=760405			11. DATUM FOR ELEVATION SHOWN (TBM 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-138			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 18 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 63.0'			16. DATE HOLE STARTED 12 Mar 1987 COMPLETED 14 Mar 1987	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 13.0'	
9. TOTAL DEPTH OF HOLE 63.0'			18. TOTAL CORE RECOVERY FOR BORING N/A %	
			19. SIGNATURE OF INSPECTOR T. Nicholson (0-24') J. Arthur (24-63')	

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
13.0'	0						
			CH-Dark brown fat clay, some roots, brick fragments & sand, dry.		1	Water level 4.8' depth to water during drilling.	3
9.5'			SP-Tan poorly graded fine sand, some brick fragments, dry.		2		10
8.5'	5		Dark brown, fine to med. grained, trace of clay, damp.		3	No 24 hour water level taken.	11
7.0'			Trace of roots & fine gravel, wet.		4	Backfilled hole/w grout after completion of boring.	5
5.5'	10		CH-Brown fat clay, trace of fine to coarse gravel & roots, wet.			12.0'-Began using Revert mud.	2
4.0'			Some roots, no gravel.		5	Undisturbed sample taken from 24.0' to 26.0' w/5" shelby tube. Recovered 1.8'. Jar sample from 24.0' to 24.1' & 25.7' to 25.8' from shelby tube.	2
2.5'	15		Greenish grey, no roots, 3" piece of wood @ 11.0'.		6		11
1.0'			Trace of fine to med. sand.				16
-0.5'			Trace of fine to coarse gravel.				7
-2.0'	20		SM-Greyish green silty fine sand, trace of fine to coarse gravel, wet.		7	LAB CLASSIFICATION	3
-3.5'			Some fine to coarse gravel, trace of clay in thin layers.			No. Class LL PL PI	14
-6.5'	25		No clay.			1 SM NP NP NP	25
-11.0'			CH-Greenish grey fat clay, trace of fine to coarse gravel, fine sand & mica, damp.		8	6 SP-SM NP NP NP	9
-12.5'					9	8 CH 126 37 39	4
-15.5'						9 SC 40 24 16	10
-17.0'	30		SC-Greenish grey clayey fine to med. sand, trace of mica, wet.		10	11 SP NP NP NP	15
			SM-Greenish grey silty fine to med. sand, trace of mica, wet.			14 SP NP NP NP	21

Continued on sht 2

BLOWS PER FOOT:
Number required to drive 1 3/8" ID splitspoon w/140 lb. hammer falling 30".
NOTE: Soils visually field classified in accordance with the Unified

DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No.			
PROJECT		INSTALLATION		SHEET 2			
Savannah Harbor Widening		Savannah, Ga.		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
-17.0'	30'	c	d	e			
			SM-Greenish grey silty fine to med.sand, trace of mica, wet.				24
-20.0'					11		19
-21.5'	35		Med. to coarse grained.				28
			Fine to med. grained.				28
					12		31
							29
			Grey, some light brown & tan streaks.				30
-29.0'			SP-Greyish brown poorly graded med.to coarse sand, trace of silt & mica, wet.		13		25
-30.5'					14		33
-32.0'	45		Light brown, few grayish brown streaks.				21
-33.5'			Very thin layer of decayed wood at approx. 47.0'.				26
-35.0'			Few grey streaks, trace of fine gravel.		15		21
-36.5'	50		No gravel.				26
-38.0'							38
-39.5'			Light greyish tan, fine to med.grained, trace of fine gravel.		16		32
-41.0'	55		Greyish tan, med.to coarse grained.				24
-44.0'			Coarse grained.		17		22
-45.5'	60		Some fine gravel.				25
			Few thin grey silty layers.				17
					18		20
-50.0'	65		Bottom of Boring 63.0'				20
							20
							22

SH-139

Savannah, Ga.

of 2 SHEETS

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 3 SHEETS
1. PROJECT Savannah Harbor Widening		10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 6" spiral		
2. LOCATION (Coordinates or Station) X=834110 Y=759335		11. DATUM FOR ELEVATION SHOWN (TBM 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-141		13. TOTAL NO. OF OVER-5" IDEN SAMPLES TAKEN DISTURBED 10 UNDISTURBED		
5. NAME OF DRILLER J. Butts		14. TOTAL NUMBER CORE BOXES -		
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER -		
7. THICKNESS OF OVERBURDEN 61.5'		16. DATE HOLE STARTED 10 Mar 1987 COMPLETED 11 Mar 1987		
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE +11.8' MLW		
9. TOTAL DEPTH OF HOLE 61.5' (El. -49.7')		18. TOTAL CORE RECOVERY FOR BORING N/A %		
		19. SIGNATURE OF INSPECTOR <i>Toni F. Nicholson</i> Toni F. Nicholson, Geologist		

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO. PAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	BLOWS
11.8'	0'	c	d				
10.3'			SC-Brown, fine to med. w/ fine gravel.		1	Water level during drilling 1.8'.	42
			SM-Tan, fine to med.		2		20
7.3'			Greenish grey, glauconitic, fine, w/ 1" MH layers & wood fragments.		3	24 hour water level reading 1.6'.	5
5.8'	5		CH-Greenish grey, w/ fine to med. SM layers.		4	Began using Revert drilling fluid at 7.5'.	1
			SM-Greyish green, fine, w/ CH layers. Glauconitic, slightly micaceous. 6" CH layer @ 8.5' to 9.0'.		5	NOTE: Encountered concrete about 6" below ground surface 4', 5', & 7' downstream of boring while locating drilling site for taking SH-141 undisturbed.	2
2.8'	10		CH-Greenish grey, 6" very fine to fine SM layer at 11.5'.			Final location for undisturbed was 5' upstream from original boring.	3
			With minor SM layers.		6		3
	15		SM-Greenish grey, fine, glauconitic, slightly micaceous.		7		8
			With minor CH layers.				9
-2.7'	20		Light greenish grey, very fine to fine.		8		8
			Greenish grey, fine to med. w/ CH layers.			NOTE: Large amounts of lumber lying on top of ground near boring.	11
	25		Fine, very minor CH layers.		9	LAB CLASSIFICATION	21
						No. Class LL PL PI	29
						CH 122 51 71	27
							35
							34
	30				10		23
			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 splitspoon w/ 140 lb. hammer falling	

DRILLING LOG (Cont Sheet)			ELEVATION TOP OF HOLE		11.8' MLW		Hole No.		SH-141	
PROJECT			INSTALLATION			SHEET 2		OF 3 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) BLOWS				
a	b	c	d	e	f	g				
			SM-Continued, as above.							
			Fine to med. w/several CH layers.		11					
	35		Wood from 35.0' to 35.5'							
			Fine, w/brown clayey, organic zones		12	NOTE: 31.5'-33.0' No drive taken, driller accidentally cleaned out to 33.0' after taking drive from 30.0' to 31.5'.				
	40					36.0' to 37.5' No recovery.				
			Fine to med., w/wood fragments.		13					
			Without wood fragments.							
	45		Without clayey, organic zones.							
			Medium grained.		14					
	50									
			Fine to med. w/minor fine gravel.		15					
-40.7'			CH-Brown, w/minor organics rootlets.		16A					
-41.7'					16B					
	55		SP-Tannish grey, med., sub- rounded.							
			Fine to med. w/ 1/2" layer brown CH.		17					
-46.7'			Silty		18					
	60		SM-Light tan, fine, w/some coarse grains.							
-49.7'			Bottom of Boring 61.5'							

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, Ga.		SHEET 3 OF 3 SHEETS	
1. PROJECT Savannah Harbor Widening				10. SIZE AND TYPE OF BIT 6" Fishtail			
2. LOCATION (Coordinates or Station) X=834110 Y=759335				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-141A				13. TOTAL NO. OF OVER- BURDEN SAMPLES TAKEN		DISTURBED 1	UNDISTURBED 1
5. NAME OF DRILLER J. Butts				14. TOTAL NUMBER CORE BOXES -			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER -			
7. THICKNESS OF OVERBURDEN 14.0'				16. DATE HOLE		STARTED 12 Mar 1987	COMPLETED 12 Mar 1987
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 11.8' MLW			
9. TOTAL DEPTH OF HOLE 14.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR <i>Tom F. Nicholson</i> Toni F. Nicholson, Geologist			
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)	
11.8'	0'						
	5		Fishtailed 0.0'-12.0'			Boring located approx. 5' upstream from original SH-141 boring.	
	10					NOTE: Jar sample taken from undisturbed sample from 13.9' to 14.0'.	
-0.2'			CH-Greyish green, w/SM stringers.		UD-1	LAB CLASSIFICATION No. Class LL PL PI UD-1 MH 95 45 50	
-2.2'						UD-1-1	
	15		Bottom of Boring 14.0'				
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.				

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, 6" spiral			
2. LOCATION (Coordinates or Station) X=834910 Y=759063				11. DATUM FOR ELEVATION SHOWN (TBM 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-142				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 10 UNDISTURBED ()	
5. NAME OF DRILLER L. Lucas				14. TOTAL NUMBER CORE BOXES ()			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER See Remarks			
7. THICKNESS OF OVERBURDEN 63.0'				16. DATE HOLE		STARTED 27 Mar 1987 COMPLETED 27 Mar 1987	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 13.3'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
9. TOTAL DEPTH OF HOLE 63.0'				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)	
13.8'	0	c	d		1	BLOWS	
11.8'			SM-Light brown & grey silty fine to med. sand, some roots, damp.			3	
10.3'			Trace of roots.		2	4	
8.8'	5		SP-Light brown & tan poorly graded fine to med. sand, trace of silt, damp.		3	7	
7.3'			SM-Light brown silty fine to med. sand, some tan streaks, trace of clay, moist.		4	9	
5.8'			Wet, see remarks.			7	
4.3'	10		Brownish grey.			11	
2.8'			Trace of roots & mica.		5	19	
1.3'			No roots.			9	
-0.2'			SC-Grey clayey fine to med. sand, some silty layers, trace of wood & mica, wet.		6	7	
-3.2'	15		Fine grained, some thick grey fat clay layers, no wood.		7	10	
-4.7'			SM Grey silty fine sand, some dark grey streaks, trace of mica & clay, wet.		8	10	
-6.2'	20		SC-Grey & greyish brown clayey fine sand, some thick layers of sand & clay, trace of mica, wet.		9	15	
-7.7'			SM-Tannish grey silty fine sand, trace of clay in thin layers & mica, wet.		10	8	
-10.7'	25		CH-Grey fat clay, some fine to med. sand in many thin to very thin layers, trace of mica, damp.		11	9	
-12.2'			SC-Grey clayey med. sand, some thick layers of sand, trace of mica, wet.			9	
-13.7'			Fine to med. grained.			22	
-15.2'			SM-Grey silty fine sand, trace of mica & clay in thin layers			24	
-16.7'	30					16	
						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		13.3' MLW		Hole No.		SH-142	
PROJECT			INSTALLATION			SHEET 2 OF 2 SHEETS				
Savannah Harbor Widening			Savannah, Ga.							
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)		% CORE RECOV- ERY	BOX OR AMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)		BLOWS	
-16.7'	30'	c	d		e					
-18.2'			SM-Grey silty fine sand, trace of mica & clay in several thin clayey layers.			12			36	
-19.7'			Greenish grey, no clay.						35	
-21.2'	35		Tannish grey, fine to med. grain- ed, few dark grey streaks, trace of clay & mica.						19	
-22.7'			No clay.			13			28	
-24.2'			Trace of clay in thin layers.						32	
	40		No clay.						35	
-28.7'			Greenish grey, fine to med. sand, trace of clay & mica.			14			36	
-30.2'			Tannish grey, fine grained, no clay.						39	
-31.7'	45		Greenish grey.			15			38	
			Fine to med. grained, piece of wood at 50.8' to 51.0'.						43	
-36.2'	50		Several thin layers of wood.						22	
-37.7'			Greyish tan, trace of fine gravel, no wood.			16			44	
			Fine grained.						37	
-42.2'	55		Grey & tan, med. grained, some fine gravel.			17			44	
-45.2'									24	
-46.7'	60					18			36	
-49.7'						19			22	
			Bottom of Boring @ 63.0'						23	
									33	
									37	
									53	
									37	

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			
2. LOCATION (Coordinates or Station) X=835417 Y=758005				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
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-143				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 18	UNDISTURBED -
5. NAME OF DRILLER J. Butts				14. TOTAL NUMBER CORE BOXES -			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER -		16. DATE HOLE	
				STARTED 2 Mar 1987		COMPLETED 3 Mar 1987	
7. THICKNESS OF OVERBURDEN 64.5'				17. ELEVATION TOP OF HOLE +13.8'			
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 64.5'				19. SIGNATURE OF INSPECTOR Toni F. Nicholson, 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)	
13.8'	0	c	d	e			g BLOWS
			CL-Brown, w/rootlets & tan SP layers.		1		5
10.8'			SP-Tan, fine to med, w/clayey zones, micaceous.		2	Water level during drilling 5.4'	8
	5		Wet.			24 hour water level reading 5.2'	4
6.3'			SM-Dark tan, fine to med, micaceous.		3	Mixed Revert drilling mud at 9.0'.	10
	10		Greenish grey, glauconitic, w/MH layers & wood fragments rotten wood 13.1'-13.5'.			LAB CLASSIFICATION	6
			CH-Greyish green. Rotten wood 14.7'-15.0'. Wood 15.5'-16.0'. SM layer 16.0'-16.2'.		4	No. Class LL PL PI	3
0.3'			SM-Greenish grey, fine, micaceous, w/1" wood fragment.		5	5 CH 102 36 66	3
	15		Fine to med. grained.			8 SC-H 57 22 35	7
-2.7'			Fine grained, w/brown organics.		6	10 SM NP NP NP	7
	20		MH-Greyish green, w/SM layers.			11 SP-SM NP NP NP	16
			SM-Greenish grey, fine to med, glauconitic, micaceous w/MH layers.		7	14 SP-SM NP NP NP	21
-11.7'	25					17 SP-SM NP NP NP	19
-13.2'					8		11
	30						10
							11
							9
							15
							13
Continued on sht 2				BLOWS PER FOOT:			
NOTE: Soils visually 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		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, 6" spiral			
2. LOCATION (Coordinates or Station) X=836130 Y=758670				11. DATUM FOR ELEVATION SHOWN (TBM 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-144				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 17 UNDISTURBED 0	
5. NAME OF DRILLER J. Butler				14. TOTAL NUMBER CORE HOLES 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 24 Mar 1987 COMPLETED 26 Mar 1987	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 8.5'			
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.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
8.5'	0					BLOWS	
7.0'			CH-Brown fat clay, some fine sand & roots at 1.3', wet.		1	Water level 1.3' depth to water during drilling.	
5.5'			SM-Grey silty fine to med. sand, large piece of wood, wet.		2		
4.0'			Brown, trace of clay, no wood.		3	No 24 hour water level reading taken.	
			No clay.			Crouted hole after completion of boring.	
1.0'			Some wood & clay layer at 8.7'.			Began using Revert drilling mud at 6.0'.	
-0.5'					4	9.0' to 10.5' - Higher blow count may be due to driving through wood.	
-2.0'			CH-Greyish brown fat clay, some wood & trace of fine sand, wet. (See remarks)				
-3.5'			No. recovery, see remarks.		5	10.5' to 12.0' - No splitspoon recovery.	
			CH-Same as from 9.0' to 10.5'.		6	Probably wood blocking entry of soft clay.	
-6.5'			SC-Grey clayey fine to med. sand, some thick silty sand layers, trace of mica, wet.			LAB CLASSIFICATION	
-9.5'					7	No. Class LL PL PI	
-11.0'			SM-Greenish grey silty fine to med. sand trace of mica & clayey sand in thin layers wet.			4 MH 99 42 57	
-14.0'			No clay.		8	6 SC-H 52 21 31	
-15.5'			CH-Greenish grey fat clay, some sand in thin to very thin layers, trace of mica, wet.			8 CH 96 33 63	
-18.5'			SP-Greyish tan poorly graded fine to med. sand, trace of silt & mica, wet.		9	11 SP NP NP NP	
-21.5'			Trace of clay in several very thin layers.		10	13 SP 28 23 5	
			Continued on sht 2			15 SP NP NP NP	
			NOTE: Soils visually field classified in accordance with the Unified Soil			BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/ 140 lb. hammer falling 40".	

DRILLING LOG (Cont Sheet)

ELEVATION TOP OF HOLE

8.5' MLW

Hole No. SH-144

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
-21.5'	30'	c	Cont'd.	e			
-23.0'			SP-Greyish tan poorly graded fine to med.sand,trace of silt mica & wood in thin layer & clay in very thin layers.				25
-26.0'			Tannish grey,med.to coarse grained,trace of fine gravel, no wood or clay.		11		28
-27.5'	35						21
-29.0'			Greyish tan,thin layer of wood, no gravel.				20
-30.5'			Fine to med.grained,few grey streaks.		12		14
-32.0'	40						17
-33.5'			SM-Tannish grey silty fine to med.sand,few grey streaks, trace of wood & mica,wet.		13		17
-35.0'			Trace of clay in several thin layers.		14		18
-36.5'	45						18
-39.5'			SC-Grey clayey fine to med. sand,some thick clay layers & thick layer of fine to med. sand,trace of mica,wet.		15		57
-42.5'	50		SP-Greyish tan poorly graded fine to med.sand,few thin grey streaks,trace of silt & mica,wet.				32
-44.0'			Thin layer of wood.		16		52
-47.0'	55		Tan,trace of fine gravel, no wood.				71
			Med.grained,some fine gravel.				57
			Med.to coarse grained,trace of fine gravel.				42
-50.0'	60		Fine to med.grained,no gravel.		17		37
			Some fine gravel.				34
			Bottom of Boring @ 58.5'				44
							55

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			
2. LOCATION (Coordinates or Station) X=836398 Y=758650				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
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-145				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 22	UNDISTURBED -
5. NAME OF DRILLER Wayne Justiss/Avery Yates				14. TOTAL NUMBER CORE BOXES -			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER -			
7. THICKNESS OF OVERBURDEN 61.5'				16. DATE HOLE		STARTED 11 Feb 1987	COMPLETED 24 Feb 1987
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE +11.4' MLW			
9. TOTAL DEPTH OF HOLE 61.5' (El.-50.1')				18. TOTAL CORE RECOVERY FOR BORING. %			
				19. SIGNATURE OF INSPECTOR <i>Toni F. Nicholson</i> Toni F. Nicholson, 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
11.4'	0'						
10.4'	1'		SM-Brown, fine to med. w/ grass roots.		1A	Water level during drilling 3.0'.	11
8.4'	3'		SP- Tan, fine to med.		2A	Water level 2.9' 24 hours after completion of boring.	3
7.4'	4'		SC-Brown, fine to med., wet.		2B		2
5.4'	5'		SM-Green to grey, fine to med., glauconitic, slightly micaceous.		3A	Began using Revert mud at 10.5'.	3
4.4'	6'				3B		4
3.8'	7'		SC-Dark grey, fine to coarse w/ large gravel.		4		4
0.9'	10'		CH-Dark grey.			No recovery 16.5' to 18.0', 19.5' to 21.0'.	5
-2.1'	12'		SM-Dark grey, slightly clayey fine to med., few coarse grains and gravel.			LAB CLASSIFICATION	7
-4.3'	15'		No Recovery (few pieces of large gravel).		5	No. Class LL PL PI	10
			MH-Dark greyish brown.		6A	9A MH 115 47 68	3
					6B	3B MH - - -	6
-9.6'	20'		SM-Greenish grey, med., glauconitic, slightly micaceous.		7		17
-11.1'	22'		Fine to med. grained.		8		13
	25'		MH-Greenish grey, sandy zones.				27
-15.6'	27'		SM-Greenish grey, fine, w/ MH layers.		9A		20
-16.1'	29'		Fine to med., 3" MH layer @ 24.5'.		9B		17
	30'		With 1/4" dia. root fragment.				32
			MH-Green.				
			SM-Greenish grey, fine to med., micaceous, glauconitic.				

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

+11.4' MLW

Hole No. SH 145

PROJECT

Savannah Harbor Widening

INSTALLATION

Savannah, Ga.

SHEET 2
OF 2 SHEETS

ELEVATION a	DEPTH 30.0'	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
			SM-Continued, as above.			
			Dark greenish grey, med., w/ few coarse grains.		10	
	35		Greyish green, w/few organics.			
			Light greyish green, very glauconitic, large mica flakes.		11	No recovery 45.0' to 46.5'.
	40		Med. grayish green.		12	NOTE: Boring moved 3' from original location due to fishtail and 10' rod lost in hole.
			Subrounded-subangular quartz grains.			
	45		Light greyish green, small wood fragments.		13	Fishtailed down to 51.0' after relocating hole.
			Light grey, fine to coarse, few clayey zones, w/gravel.			
	50		Light greenish grey, fine.		14	
			Light tan, fine to med.			
	55		SP-Light tan, med., micaceous.		15	
-42.6'			SM-Light tan, fine to med., few organics.		16	
-44.1'					17	
	60		Bottom of Boring @ 61.5'			
-50.1'						
	65					

DIVISION South Atlantic

INSTALLATION
Savannah, Ga.

2. LOCATION (Coordinates or Station)
X=836728 Y=758537

3. DRILLING AGENCY
Savannah District

4. HOLE NO. (As shown on drawing title and file number)	SH-146
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3. NAME OF DRILLER
Wayne D. Dill

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' (El.-49.7')
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10. SIZE AND TYPE OF BIT 3/8" splitspoon

11. DATUM FOR ELEVATION SHOWN (TBM or MSL)

MLW

12. MANUFACTURER'S DESIGNATION OF DRILL

CME 45

13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED	UNDISTURBED
	()	--

14. TOTAL NUMBER CORE BOXES _____

18. ELEVATION GROUND WATER

16. DATE HOLE	STARTED 3 Feb 1987	COMPLETED 10 Feb 1987
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17. ELEVATION TOP OF HOLE 10.3' MLW

18. TOTAL CORE RECOVERY FOR BURING.	%
100	100

19. SIGNATURE OF INSPECTOR *Toni F. Nicholson*
Toni F. Nicholson, 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
10.8'	0'	c	d	e			
			SP-Tan, med.-coarse grained, w/minor fine gravel.		1		12
							23
			Fine-coarse grained, w/8" layer dark tan-grey SM @ 2.0'.		2	Water level 4.5' depth to water during drilling.	17
							17
			Reddish-tan, wet.				12
			Gradual change to grey color.				4
			Blue-grey, med. grained, very wet.		3	Water level 4.5' reading made 24 hours after completion of boring.	5
							3
-1.7'			Tan, med. grained. Change to fine-med., blue grey @ 10.0', very wet, few coarse grains.		4		50/.1
							3
-4.7'			MH-Grey-green, wood from approx. 12.0' to 12.5'.		5	At 12.0' to 13.5' drilled thru wood, then MH w/spiral auger.	WH
					6		17
			SM-Greenish grey, fine grained, slightly micaceous, glauconitic 16.5'-17.2' slightly clayey w. organics.			No. 5-Poor sample	14
							13
			With minor pea gravel.		7	Began using Revert drilling fluid at 16.5'.	24
							7
			2' layer organics (leaves & wood fragments) 24.5'- 26.7'. Few med. & coarse grains.		8		9
							10
							11
			Few wood fragments.				31
			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 Splitspoon w/ 140 lb. hammer falling 30".	

DRILLING LOG (Cont Sheet)

ELEVATION TOP OF HOLE

+10.3' MLW

Hole No. SH-146

PROJECT

Savannah Harbor Widening

INSTALLATION

Savannah, Ga.

SHEET 2

OF 2 SHEETS

ELEVATION a	DEPTH 30.0'	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	CORE COV. e	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	BLOWS
			SM-Greenish grey, fine to med. slightly micaceous, dark green mineral, glauconite.		9		34
							20
	35		Med. grey.		10		16
							21
			Greenish grey				32
	40						38
			Grey, w/ large mica flakes		11		40
							35
			Light grey, subrounded, fine to med. quartz, w/ very fine, black grains, slightly mica- ceous.		12	Began using Zeogel mud mix at 43.5'.	43
	45						42
							35
-37.7'			SP-Light tanish grey, med., subrounded.				43
	50		Med. grey, med to coarse grained.		13		32
							13
			Slightly silty, few organics, slightly micaceous.		14		24
-43.7'							42
	55		SM-Light grey, med., micaceous.		15		38
			Light greenish grey, fine to med., glauconitic.				45
			Fine grained.				53
-49.7'	60				16		94
			Bottom of Boring @ 60.0'.				

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Savannah, Ca.	SHEET 1 OF 2 SHEETS
	1. PROJECT Savannah Harbor Widening		
2. LOCATION (Coordinates or Station) X=836960 Y=758417		10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 4" spiral	
3. DRILLING AGENCY Savannah District		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) 6" MLW auger & fishtail	
4. HOLE NO. (As shown on drawing title and file number) SH-147		12. MANUFACTURER'S DESIGNATION OF DRILL CME 45 (0.0'-12.0'), CME 55 (12.0'-58.5')	
5. NAME OF DRILLER J. Butts		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN DISTURBED 16 UNDISTURBED 1	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES 0	
7. THICKNESS OF OVERBURDEN 58.5'		15. ELEVATION GROUND WATER See Remarks	
8. DEPTH DRILLED INTO ROCK 0.0'		16. DATE HOLE STARTED 20 Feb 1987 COMPLETED 6 Mar 1987	
9. TOTAL DEPTH OF HOLE 58.5'		17. ELEVATION TOP OF HOLE 8.8' MLW	
		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR T. Nicholson (0-12') J. Arthur (12-58.5')	

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
8.8'	0' b	c	d	e			
			CH-Brown fat clay, trace of roots.		1	0.0' to 1.5' - No splitspoon recovery	4
5.8'			SC-Tannish grey clayey fine to coarse sand, wet.		2	Sample #1 taken from spiral auger.	2
4.3'			Grey, trace of fine gravel.				2
2.8'			SM-Grey silty fine to med. sand, trace of clay & roots, wet.		3	Water level 3.4' depth to water during drilling.	3
1.3'			Greenish grey, trace of mica and organics.			No 24 hour water level reading taken.	4
-1.7'			Trace of fine gravel.		4	Used Quikgel drilling mud at 7.5'. Revert mud at 12.0' & 48.0'	4
-3.2'			CH-Greyish brown fat clay, wet.		5	Weight of hammer drove splitspoon from 18.0' to 19.5' 24.0' to 25.5', 25.5' to 27.0'.	1
			Trace of micaceous, silty fine sand in thin layers, damp.				1
-9.2'			Layer of silty fine to med. sand from approx. 20.7' to 21.0'.			Date Hole: Drilled to 12.0' 20 Feb 1987 but suspended until 5 Mar 1987 awaiting rig w/ larger water pump.	0
-10.7'			Trace of mic., silty fine sand in thin layers.		6		5
-12.2'			Trace of mic. silt in few very thin layers.			Undisturbed sample taken w/ 5" shelly tube from 28.0' to 30.0'. Jar sample taken from bott. of tube from 29.9' to 30.0'.	3
-13.7'			Grey fat clay, trace of mica, damp.		7		3
-15.2'			Trace of mic. silt in very thin layers.				0
-16.7'			Several very thin layers of fine to med. sand.				0
-18.2'			Layer of med. to coarse sand from approx. 29.7' to 30.0'				0
-19.7'			Continued on sht 2				3
-21.2'							6
						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

8.8' MLW

Hole No. SH-147

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
-21.2'	30'	c	d	e			
22.7'			SM-Greyish brown silty med to coarse sand, trace of mica & clay in thin layers, wet. Trace of fine gravel.		8	40.5' to 42.0' - Water pump became clogged w/ much wood while cleaning out boring.	7
	35		Greyish brown silty fine to med. sand.				10
-28.7'			SP-Greyish brown poorly graded fine to med. sand, trace of sand, trace of silt, wet.		9		5
-30.2'							5
-31.4'	40		CH-Grey & brown fat clay w/ large piece of wood, trace of fine sand. (See remarks)		10	LAB CLASSIFICATION	21
-33.2'			SP-Greyish tan poorly graded fine to med. sand, trace of silt, wet.		11	No. Class LL PL PI	36
-36.2'	45				12	11 SM-H 74 36 38	31
					13		28
-37.7'			SM-Greyish tan silty med. sand, wet.				43
-39.2'			Med. to coarse grained, trace of fine gravel.				33
-40.7'	50		Tan layer w/ some fine gravel at approx. 49.2' - 49.5'.		14		13
-43.7'			SP-Greyish tan poorly graded coarse sand, some fine gravel, trace of silt, wet.				35
-45.2'	55		Tan, fine to med. grained, no gravel.		15		27
							42
-49.7'	60		SM-Greyish tan silty fine to med. sand, trace of mica & fine gravel, wet.		16		41
			Bottom of Boring @ 58.5'				54
							60
							67

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah Ga.		SHEET OF 2 SHEETS		
1. PROJECT Savannah Harbor Widening			10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 6" spiral				
2. LOCATION (Coordinates or Station) X=837530 Y=758410			11. DATUM FOR ELEVATION SHOWN (TBM 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-148			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN TOTAL DISTURBED 19 UNDISTURBED 0				
5. NAME OF DRILLER L. Lucas			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 1 Mar 1987 COMPLETED 1 Apr 1987				
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 T. Nicholson J. Arthur				
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
10.0'	0'				JAR 1		
7.0'	3'	[Pattern]	SC-Brown, fine, w/trace of roots.			Water level reading during drilling 3.0'	3
5.5'	5'	[Pattern]	MH-Dark grey w/some sand, trace of clay & wood.		2		2
			SC-Brown & grey, fine to med, trace of wood 6.0'-7.5'.		3	24 hour water level reading 2.9'.	3
1.0'	10'	[Pattern]	CH-Grey, w/trace of wood, sand, & mica.			NOTE: Jim Arthur logged hole from 0.0' to 49.5', Toni Nicholson logged from 49.5' to 60.0'.	10
-2.0'			SC-Tannish grey, fine, trace of mica.		4		5
			SP-Tannish grey, trace of silt & mica.		5	Began using Revert drilling mud at 7.5'.	2
	15'		SM-Grey & tannish grey, fine, trace of mica.			LAB CLASSIFICATION	3
-8.0'			Fine to med.w/sev.thin clayey layers.		6	No. Class LL PL PI	8
-9.5'	20'		SP-Greyish tan, med., trace of clay.		7	3 SM-SC 23 17 6	7
					8	4 CH 93 32 61	9
						9 SP-SM NP NP NP	24
						12 CH 130 44 86	15
						16 SP NP NP NP	6
	25'				9		24
							14
							26
-18.5'							11
	30'				10		25
			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 splitspoon w/ 140 lb. hammer falling 20"	

DRILLING LOG (Cont Sheet)

ELEVATION TOP OF HOLE

+10.0' MLW

Hole No.

SH-148

PROJECT

Savannah Harbor Widening

INSTALLATION

Savannah, Ga.

SHEET 2

OF 2 SHEETS

ELEVATION -20.0'	DEPTH 30'	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
			SM-Tannish grey & grey, fine to med., trace of mica.		11		30
-23.0'			CH-Greenish grey.		12		16
-24.5'	35		SM-Tannish grey, fine to med. trace of mica.		13		4
			Med. grained.				24
			Fine to med grained.				20
	40		Trace of clay (thin layers).		14		14
			SP-Greyish tan, fine to med. w/piece of wood.				22
			Solid wood from 48.0' to 49.2'.		15		23
-36.5'	45		Grey, med., trace of clay.				23
			Tannish grey, fine to med, trace of fine gravel.		16		24
			With rotten wood fragments up to 2".				16
	50		No wood or gravel.		17	NOTE: No soil recovered from 48.0 to 49.5', only recovered wood from 48.0 to 49.2'.	44
			SM-Light grey, fine, trace of mica.				100/0.7
-45.5'	55		Fine to med, w/trace of fine gravel.		18		37
							34
							46
							34
							54
-50.0'	60		Bottom of Boring @ 60.0'.		19		62
							58

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-830569 Y-760861 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-201				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 FEB 92 COMPLETED 5 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 Q.0	DEPTH 0.0	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	
			Water				
	40		Bottom of Harbor 42.9'				
-42.9'			(CL) Grey, silty, lean CLAY. Trace of fine sand.		1	15	
-45.9'			Lean caly, some fine sand, trace of silt.		2	6	
-48.9'			(SC) Light olive-grey, fine clayey SAND. Some silt.		3	21	
-51.9'			Olive-grey, trace of silt.		4	21	
-55.9'						45	
-58.9'						41	
-60.9'						25	
	55					28	
	60				5	25	
						24	
						31	
						43	
			Bottom of Boring 60.9'			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		"VISION" SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		Hole No. SH-203 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=831846 Y=759544 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-203				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 60.4' (Water 42.4')				16. DATE HOLE STARTED 7 FEB 92 COMPLETED 7 FEB 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 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f 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 42.4'				
-42.4'			(MH) Very dark grey to black clayey SILT.		1		
-43.3'			(CL) Dark grey, silty, lean CLAY. Trace of fine sand.		2	Weight of rods drove splitspoon from 42.4' to 43.3'. Jar sample 2 from 43.3' to 43.9'.	16
-45.4'	45		(SM) Dark grey, fine, silty SAND. Some silt.		3		35
-46.9'			(SC) Dark grey, fine, clayey SAND. Some silt.		4		63
	50						31
			Olive.		5		31
-51.4'			Several hard layers up to 1/4" thick.				32
-52.9'							24
-54.4'	55		(SM) Light olive-grey, fine silty SAND. Some clay.		6		100/0.3
-55.9'			(SC) Olive-grey, fine clayey SAND. Some silt.		7		77
							23
							24
-60.4'	60		Bottom of Boring 60.4'		8		28
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-832738 Y-759052 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-204				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 57.3' (Water 43.8')				16. DATE HOLE		STARTED 7 FEB 92	COMPLETED 7 FEB 92
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE		0.0'	
9. TOTAL DEPTH OF HOLE 57.3'				18. TOTAL CORE RECOVERY FOR BORING		N/A %	
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE 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 44.3'.	
-43.8'	45		Bottom of Harbor 43.8'				
-45.3'			(SC) Dark olive-grey, fine clayey SAND. Trace of silt.		1	Weight of rods drove splitspoon from 43.8' to 44.5'. 15	
			Dark grey.			psi Took *150' hydraulic pressure to fishtail from 53.1' to 53.6'. 34	
	50				2	Boring terminated at 57.3' due to shipping traffic. 29	
						22	
						20	
						29	
-52.8'			(SM) Light olive-grey, fine, silty SAND. Some clay.		3	100/0.3	
	55					22	
-55.8'			(SC) Olive-grey, fine clayey SAND. Some silt.		4	32	
-57.3'			Bottom of Boring 57.3'				
			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. SH-205 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-833763 Y-758711 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-205				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 60.2' (WATER 40.8')				16. DATE HOLE STARTED 21 MAR 92 COMPLETED 21 MAR 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 b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY JAR	BOX OR SAMPLE NO. f	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 41.6'.
-40.8'	40		Bottom of Harbor 40.8'			
	45		(SM) Olive-grey fine silty SAND, trace of clay, layer of coarse sand from 40.8' to approx. 41.0'.		1	
	50				2	
-52.8'	53.8		Some clay at approx. 53.8.		3	
-54.3'	55		(SC) Dark grey, fine clayey SAND, trace of silt.		4	
-57.3'			Olive-grey.			
-58.8'			Light olive-grey, some silt.			
-60.2'	60		Bottom of Boring 60.2'		5	
			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 (Coordinates or Station) X=834685 Y=758482 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-206				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 6		DISTURBED 6	
				14. TOTAL NUMBER CORE BOXES 0		UNDISTURBED 0	
5. NAME OF DRILLER DAVID JUSTISS				15. ELEVATION GROUND WATER N/A			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				16. DATE HOLE 21 MAR 92		STARTED 21 MAR 92	
7. THICKNESS OF OVERBURDEN 60.0' (WATER 40.5')				17. ELEVATION TOP OF HOLE 0.0'		COMPLETED 21 MAR 92	
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
9. TOTAL DEPTH OF HOLE 60.0'				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			

ELEVATION 0.0	DEPTH 0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY JAR	BOX OR SAMPLE NO. f	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 40.9'.	
-40.5'	40		Bottom of Harbor 40.5'				
-42.0'			(SM) Olive-grey fine silty SAND, trace of clay.		1		28
-43.5'			Light olive-grey.				98
-45.5'	45		(SC) Olive-grey fine clayey SAND, some silt.		2		22
-46.5'			Some sand lenses.				29
-48.0'			(SM) Olive-grey fine silty SAND, trace of clay.		3		93
-49.5'	50		Some clay.				100/0.4'
-54.0'	55		Trace of clay.		4		55
-55.5'			(SC) Olive-grey fine clayey SAND, some silt.		5		84
-57.0'			Grey, trace of silt.				50
-60.0'	60		Bottom of Boring 60.0'		6		49
			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".	33
							30
							26

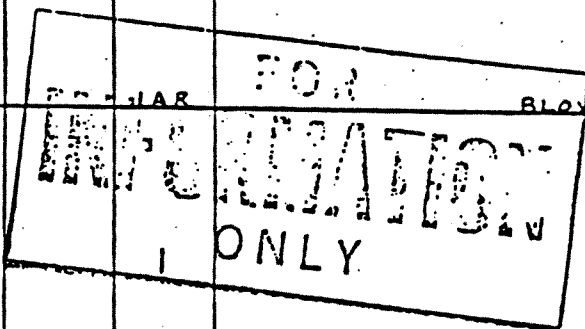
DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		SHEET 1 OF 1 SHEETS	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" SPLITSPOON, 5/2" FISHTAIL			
2. LOCATION (Coordinates or Station) X-836591 Y-757792 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
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-208				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 45.1')				16. DATE HOLE		STARTED 18 DEC 91 COMPLETED 18 DEC 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			BLOWS	
	40		Bottom of Harbor 45.1'			Scale change at 40.0'. Set 6" diameter casing by own weight to 45.7'.	
-45.1'	45		(SC) Olive grey, fine clayey SAND. Some silt.		1	41	
-46.6'			occasional layer of fine silty sand up to 0.2'			75	
-48.1'			No silty sand layers.			47	
-51.1'	50		(SM) Olive-grey, fine silty SAND. Trace of clay.		2	63	
					3	100/0.7'	
					4	100/0.8'	
-57.1'	55		Some clay.			100/0.3'	
						79	
-60.1'	60				5	56	
			Bottom of Boring 60.1'			46	
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-837605 Y-757743 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-209				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		16. DATE HOLE STARTED 20 NOV 91 COMPLETED 20 NOV 91	
7. THICKNESS OF OVERBURDEN 61.0' (Water 52.0')				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 61.0'				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	
			Water				
	50		Bottom of Harbor 52.0'				
-52.0'			(SM) Dark grey, coarse silty SAND. Some fine gravel, trace of clay.		1		
-53.5'			(SP) Greyish-tan, coarse, poorly graded SAND. Some fine gravel, trace of silt.		2		
-55.0'	55		(SC) Olive-grey, fine clayey SAND. Some silt.		3	Made batch of Zeogel drilling mud at 48.8'. Reset casing to 49.0'.	
						14	
						54	
						34	
						31	
						23	
-61.0'	60				4	38	
			Bottom of Boring 61.0'				
			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".	

Hole No. CS-6A

DRILLING LOG		DIVISION <u>SOUTH ATLANTIC</u>		INSTALLATION U.S. ARMY ENGINEERS		SHEET <u>1</u>	
1. PROJECT <u>SAVANNAH RIVER EXPLORATION</u>				2. HOLE NO. AND TYPE OF BIT <u>1 3/8" ID SPLITSPOON</u>			
3. LOCATION (Coordinates or Station) <u>SAVANNAH RIVER STA. 12+25.8</u>				11. DATUM FOR ELEVATION SHOWN <u>MLW</u>			
4. DRILLING AGENCY <u>SAVANNAH DISTRICT</u>				12. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 45</u>			
5. HOLE NO. (As shown on drawing title and file number) <u>CS-6A</u>				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES	
6. NAME OF DRILLER <u>T.W. SCOTT</u>				15. ELEVATION GROUND WATER		16. DATE HOLE	
7. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				17. ELEVATION TOP OF HOLE <u>0.0 MLW</u>		18. TOTAL CORE RECOVERY FOR BORING <u>3</u>	
8. THICKNESS OF OVERBURDEN <u>-56.5'</u>				19. SIGNATURE OF INSPECTOR <u>DAVID BELVILLE, GEOLOGIST</u>		20. REMARKS	
9. DEPTH DRILLED INTO ROCK <u>0.0'</u>				21. DATE HOLE		22. COMPLETED	
10. TOTAL DEPTH OF HOLE <u>-56.5'</u>				23. STARTED		24. COMPLETED	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
			WATER DEPTH 26.5'			
<u>-26.5</u>	0'		0' : BOTTOM OF RIVER			
			MH. DARK GREEN, WATER SATURATED MICACEOUS SANDY FAT SILT			
<u>-32.0</u>	5'					
			SM. DARK GRAY, LOOSE, SILTY, MICACEOUS FINE SAND		2	
<u>-39.0</u>	10'					
			LIGHT GREEN TO LIGHT GRAY, DENSE, SILTY, MICACEOUS FINE TO MEDIUM SAND		3	
	15'					
					4	
<u>-47.0</u>	20'					
			GREEN, DENSE, SILTY, FINE SAND		5	
<u>-51.5</u>	25'					
			Continued on Sheet No. <u>2</u>			
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.			
						BLOWS PER FOOT: Number required to drive 1 1/2" ID split spoon w/140 lb hammer falling 30".



DRILLING LOG (Cont Sheet)

LENGTH OF HOLE

0.0' MLW

Hole No.

CS-6A

PROJECT

ARMY ENGINEERING

SHEET

SAVANNAH RIVER EXPLORATION

DELTA SAVANNAH RIVER HARBOR

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)
-56.4	2ft		SM. GREEN, DENSE, SILTY FINE SAND		JAK	BLOW: 25 100/0.3 100/0.3 100/0.5 100/0.9
	30'		BOTTOM OF HOLE -56.4 MLW			

FOR INFORMATION ONLY

DRILLING LOG		DIVISION SOUTH ATLANTIC		INSTALLATION Engineer Dept		Hole No. CS-100	
1. PROJECT New Bulk Head				10. SIZE AND TYPE OF BIT 1 3/8" I.D. SPLITSPOON		SHEET 1 OF 2 SHEETS	
LOCATION (Coordinates or Station) SEE PLAN				11. DATUM FOR ELEVATION SHOWN MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL C ME 7500			
4. HOLE NO. (As shown on drawing title and file number) CS - 100				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		DISTURBED 8 UNDISTURBED 0	
5. NAME OF DRILLER SCOTT				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN 70.5'				16. DATE HOLE STARTED 12 JULY 1976 COMPLETED 13 JULY 1976			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 11.89'			
9. TOTAL DEPTH OF HOLE 70.5'				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR C. DAVIS			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	LOG RECORD 70'	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
11.9	0			MOISTURE CONTENT 7.7	1		
	5		SH - Tan silty fine and medium sand		2	W.T. - 5.0' DATE: 12 July 1976 Depth to water during drilling	
	10		OH - Gray organ. clay		3		
	15		With thin sand layers	75.3	4	W.T. - 4.0' Water table reading 24 hours after hole completed.	
	20				5		
	25		SP-SH - Gray fine and medium sand with gravel	21.5	6	LAB. CLASSIFICATION SAMPLE #4 - MH #8 - CH #1 - SM #6 - SP #7 - SP-SM	
	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. CS - 100

PROJECT

New Bulk Head

INSTALLATION

Engineer Depot

SHEET

2

OF 2 SHEETS

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% GRAY SAND e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	BLOWS h
	30		SP- SM - Gray, fine and medium sand with gravel.				20
							23
							27
	35						34
							46
							46
	40						43
							37
							42
	45						45
							42
							40
							43
	50						41
							39
							40
	55						38
							40
							49
	60		SM - Gray silty fine sand	23.4	7		51
							69
							76
	65		MI. - Green clayey silt	45.4	8		87
							40
							35
							37
	70						30

FOR
INFORMATION
ONLY

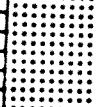
SAVANNAH HARBOR BORING LOGS

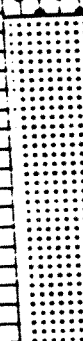
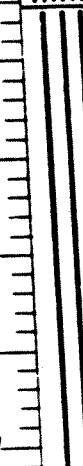
From Station 50+000

To

Station 70+000



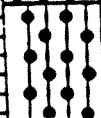
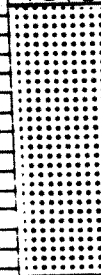
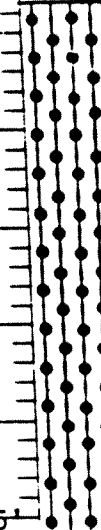
DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		Hole No. SH-36	
1. PROJECT Savannah Harbor		2. LOCATION (Coordinates or Station) Sta 64+000N, R= "24"		10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon		SHEET 1 OF 2 SHEETS	
3. DRILLING AGENCY Savannah District		4. HOLE NO. (As shown on drawing title and file number) SH-36		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW		12. MANUFACTURER'S DESIGNATION OF DRILL CME 75	
5. NAME OF DRILLER T. W. Scott		6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		14. TOTAL NUMBER CORE BOXES	
7. THICKNESS OF OVERBURDEN 55.5'		8. DEPTH DRILLED INTO ROCK 0.0'		15. ELEVATION GROUND WATER		16. DATE HOLE STARTED 27 Nov 77 COMPLETED 27 Nov 77	
9. TOTAL DEPTH OF HOLE -55.5' MLW		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 RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0 MLW	0'	c	d	e	f	g	
	5'						
	10'		Water				
	15'						
-19.5	20'		Bottom of river -19.5'		JAR	BLOWS	
-22.5			OH - Gray soft organic clayey silt		1	0	
	25'		SP - Brown and gray poorly graded sand with some soft silt layers		2	0	
						6	
						12	
-28.5						11	
-30.0	30'		SM - Gray medium silty sand Continued on sheet 2		3	14	
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.			30	
						BLOWS PER FOOT: Number required to drive 1 3/8" ID splitspoon w/ 140 lb hammer falling 30'	

PROJECT		INSTALLATION		Hole No.		SHEET	
Savannah Harbor		Savannah, GA		SH-36		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
a	b	c	d	e	f	g	h
-35.0	33'		SM - Gray medium silty sand				29
						19	
						16	
	35'					33	
-43.5			SP - Tan poorly graded sand		4		50
						53	
						50	
	40'					51	
						49	
						90	
-55.5	45'		MH - Green very fine sandy and clayey silt, very hard		5		100/0.7
						100	
						100/0.9	
	50'					100/0.8	
						99	
	55'				6		96
			Bottom of hole -55.5' MLW				

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA,		Hole No. SH-37	
1. PROJECT Savannah Harbor				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon		SHEET 1 OF 2 SHEETS	
2. LOCATION (Coordinates or Station) Sta 63+000N, R= "23" (X-845560 Y-758590)				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-37				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 8	
5. NAME OF DRILLER Perry Rountree				14. TOTAL NUMBER CORE BOXES		UNDISTURBED 0	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN 55.5'				16. DATE HOLE		STARTED 4 Nov 77	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE		COMPLETED 4 Nov 77	
9. TOTAL DEPTH OF HOLE -55.5' MLW				18. TOTAL CORE RECOVERY FOR BORING			
				19. SIGNATURE OF INSPECTOR CHARLES D. GRIFFIN			

ELEVATION 0.0 MLW 0'	DEPTH	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			
-4.5	5'		Bottom of river -4.5'		JAR	
			SM - Greenish gray silty fine sand		1	BLOWS 12
-8.5	10'		MH - Gray fat clayey silt interbedded with some sand		2	14
						11
-13.5	15'		SM - Gray silty fine sand with clayey silt layers		3	9
						9
-17.5	20'		MH - Gray fat clayey silt		4	5
						4
	25'					3
						3
-25.5	30'		CH - Gray fat stiff clay		5	4
						6
-30.0			Continued on sheet 2			7
			NOTE: Soils field classified in accordance with the Unified Soil Classification System.			8
						7
						7

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

DRILLING LOG (Cont Sheet)		ION TOP OF HOLE		0.0MLW		Hole No. SH-37	
PROJECT Savannah Harbor			INSTALLATION Savannah, GA			SHEET 2 OF 2 SHEETS	
ELEVATION a	DEPTH 30b'	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	BLOWS
-31.5			CH - Gray fat stiff clay				11
			SM - Greenish gray fine silty sand		6		30
							39
-34.5	35'		SP - Light tan poorly graded sand		7		40
							50
							54
	40'						51
							63
-41.5			SM - Green fine cemented silty sand, very hard		8		100/0.9
							97
	45'						80
							100/0.8
	50'						81
							79
							68
							71
-55.5	55'		Bottom of hole -55.5' MLW				

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah, GA	Hole No. SH-39	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) Sta 62+000N. R= "23" (X-846495 Y-758660)			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-39			13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 8
5. NAME OF DRILLER Perry Rountree			14. TOTAL NUMBER CORE BOXES		UNDISTURBED 0
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.			15. ELEVATION GROUND WATER		
7. THICKNESS OF OVERBURDEN 55.0'			16. DATE HOLE		STARTED 5 Nov 77
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE		COMPLETED 5 Nov 77
9. TOTAL DEPTH OF HOLE -55.5' MLW			18. TOTAL CORE RECOVERY FOR BORING		0.0 MLW
			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	0.0	c	d	e	f	g
			Water			
	5.5		Bottom of river -5.5'		JAR	
			SM - Greenish gray and tan silty fine sand		1	BLOWS 12
	9.5		MH - Gray fat clayey silt with sand layers		2	14
			SM - Gray fine and medium silty sand		3	12
	13.5		With some soft silt			11
			Gray and tan fine and medium sand		4	10
	20.0		Greenish gray and tan			11
			Continued on sheet 2			12
	25.0					24
						21
	30.0					31
						36
						35
						36
						34
						39
						36

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.		SHEET 2	
Savannah Harbor		0.0 MLW		SH-39		OF 2 SHEETS	
OBJECT		INSTALLATION		REMARKS			
Savannah Harbor		Savannah, GA		(Drilling time, water loss, depth of weathering, etc., if significant)			
LEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOV. ERY	BOX OR SAMPLE NO. JAR	BLOWS	
30.0	30'	c	d				
			SP-Tan poorly graded sand		5		
	35'						
	40'		With some gravel				
-41.5			SM - Dark green fine cemented silty sand		6		
	45'						
	50'				7		
					8		
-55.0	55'		Bottom of hole -55.0' MLW				

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		Hole No. SH-40	
1. PROJECT Savannah Harbor				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon		SHEET 1 OF 2 SHEETS	
2. LOCATION (Coordinates or Station) Sta 61+000N, R= "22" (X-847350 Y-758840)				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-40				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 7 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 56.0'				16. DATE HOLE STARTED 6 Nov 77 COMPLETED 6 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	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'						
	5'						
	10'						
-14.0	15'		Bottom of river -14.0'		JAR	BLOWS	
			OH - Gray soft organic clayey silt		1	1	
						1	
						0	
-20.5	20'		SM - Gray and tan silty fine and medium sand		2	1	
						3	
					3	10	
						14	
						25	
-28.0			SP - Tan poorly graded sand			30	
-30.0	30'		Continued on sheet 2		4	46	
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'			

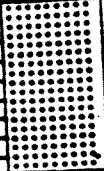
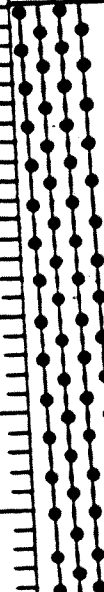
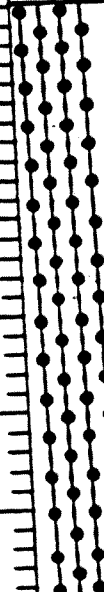
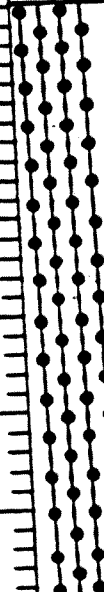
DRILLING LOG (Cont Sheet)		ELEVATION TOP OF HOLE		Hole No. SH-40		
PROJECT		INSTALLATION		SHEET 2 OF 2 SHEETS		
Savannah Harbor		Savannah, GA		REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)		
ELEVATION a	DEPTH 30'	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. JAR	BLOWS g
-41.0			SP - Tan poorly graded sand		5	54
						49
						51
						54
						31
						29
						33
						58
						78
						89
-56.0			SM - Green fine cemented silty sand		6	98
						9
						100/0.5
						93
						100/0.6
						92
						85
						91
			Bottom of hole -56.0 MLW			

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah, GA		Hole No. SH-41	
1. PROJECT Savannah Harbor				SHEET 1 OF 2 SHEETS			
2. LOCATION (Coordinates or Station) Sta 54+000W, R = "24"				10. SIZE AND TYPE OF BIT 1 3/8" ID 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-41				12. MANUFACTURER'S DESIGNATION OF DRILL CME 75			
5. NAME OF DRILLER A. L. Padgett				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 7	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				14. TOTAL NUMBER CORE BOXES		UNDISTURBED 0	
7. THICKNESS OF OVERBURDEN 55.0'				15. ELEVATION GROUND WATER			
8. DEPTH DRILLED INTO ROCK 0.0'				16. DATE HOLE STARTED 29 Nov 77 COMPLETED 29 Nov 77			
9. TOTAL DEPTH OF HOLE -55.0' MLW				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 RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
0.0 MLW	0'					
	5'		Water			
	10'					
	15'					
-19.0	20'		Bottom of river -19.0'		JAR	
-21.5			OH - Gray soft fat clayey organic silt	1		BLOWS
			SM - Greenish gray silty fine sand interbedded with soft silt layers	2		0
-26.0	25'		SP - Gray poorly graded sand			4
						7
						21
						36
-30.0	30'		Continued on sheet 2	3		30
						41

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-41	
PROJECT Savannah Harbor			INSTALLATION Savannah, GA		SHEET 2 OF 2 SHEETS	
ELEVATION a	DEPTH 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) f
	30'					BLOWS
-34.5			SP - Gray poorly graded sand			56
			With some large size gravel			39
						65
						77
	35'		SM - Dark green very fine cemented silty sand, very hard		4	100/0.6
						100
						94
						100/0.7
	40'				5	99
						90
						94
						100/0.4
	45'				6	
	50'		MH - Dark green hard fine sandy and clayey silt		7	82
						88
						83
-50.5						
	55'		Bottom of hole -55.0'			
-55.0						

DRILLING LOG		DIVISION		INSTALLATION		Hole No.	
1. PROJECT		South Atlantic		Savannah, GA		SH-42	
2. LOCATION (Coordinates or Station)		Sta 53+000W, R= "21"		10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon		SHEET 1 OF 2 SHEETS	
3. DRILLING AGENCY		Savannah District		11. DATUM FOR ELEVATION SHOWN (TBM or MLW)		MLW	
4. HOLE NO. (As shown on drawing title and file number)		SH-42		12. MANUFACTURER'S DESIGNATION OF DRILL		CME 75	
5. NAME OF DRILLER		Perry Roundtree		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 6 UNDISTURBED 0	
6. DIRECTION OF HOLE		☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		14. TOTAL NUMBER CORE BOXES		15. ELEVATION GROUND WATER	
7. THICKNESS OF OVERBURDEN		56.0'		16. DATE HOLE		STARTED 30 Nov 77 COMPLETED 30 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	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'						
	5'		Water				
	10'						
	15'						
	20'						
-21.5			Bottom of river -21.5'		JAR		
			OH - Gray soft clayey organic silt			BLOWS	
					1	0	
-24.5	25'		SP-SM - Gray fine poorly graded and silty sand			3	
					2	6	
						19	
-30.0	30'		Continued on sheet 2				
NOTE: Soils field classified in accordance with the Unified Soil Classification System.				B-65		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.	
PROJECT			INSTALLATION		SHEET	
Savannah Harbor			Savannah, GA		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)
a	b	c	d	e		f
-36.0	30'		SP-SM - Gray fine poorly graded and silty sand		3	27
					41	
					30	
					21	
					63	
					100	
					96	
					100/0.9	
					100/0.7	
					99	
-48.5	40'		SM - Green fine cemented silty sand, very hard		5	100/0.4
					100	
					93	
					90	
					87	
					91	
					83	
					80	
-56.0	50'		MH - Dark green hard clayey and fine sandy silt		6	
	55'					
			Bottom of hole -56.0' MLW			

DRILLING LOG		DIVISION Sout. Atlantic		INSTALLATION Savannah, GA		Hole No. SH-76		SHEET 1 OF 1 SHEETS	
1. PROJECT Savannah Harbor Comprehensive Study				10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon, 4"					
2. LOCATION (Coordinates or Station) X-841179, Y-757919 See Plans (off-set 19.0' down stream)				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW		fishtail			
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-76				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 7		UNDISTURBED	
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 59.5' +				16. DATE HOLE		STARTED 28 Sep 82		COMPLETED 28 Sep 82	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0' MLW					
9. TOTAL DEPTH OF HOLE 59.5'				18. TOTAL CORE RECOVERY FOR BORING					
				19. SIGNATURE OF INSPECTOR J. 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)
MLW 0.0	0	c	d	e	f	g
			Water			
-36.8'	35		Bottom of Harbor 36.8'		JAR	Note: Change of scale at 35.0'
-40.0'	40		MH-Gray fat silt with some fine to coarse sand. (See Remarks)		1	Note: Weight of rods 0 drove splitspoon from 36.8' to 38.4' and to 40.0' with hammer. 0
-43.0'			SM-Gray fine to medium silty sand with some mica		2	Three foot drives 10 taken to retain 11
-46.0	45		SP-Light grayish tan coarse poorly graded sand with trace of fine gravel		3	samples. Set casing to 39.4'. 12 43.0' -46.0' poor 14 recovery. Reset casing to 48.7'.. 30
	50		No Recovery			
-52.0'						
-53.5'	55		SP-Tan coarse poorly graded sand with trace of fine gravel		4	
			SM-Green coarse silty sand		5	
			Green fine silty sand with some mica		6	
-59.5'	60		Bottom of Boring 59.5'		7	
			Note: Soils field classified in accordance with 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 AtlanticINSTALLATION
Savannah, GASHEET
OF 2 SHEETS

PROJECT

Savannah Harbor Comprehensive Study

LOCATION (Coordinates or Station) X-851751, Y-760667

e Plans (off-set 9.0' U/S, 7.0' toward chnl)

DRILLING AGENCY

Savannah District

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

SH-77

NAME OF DRILLER

T. Scott

DIRECTION OF HOLE

☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.

THICKNESS OF OVERBURDEN

60.0'+

DEPTH DRILLED INTO ROCK

0.0'

TOTAL DEPTH OF HOLE

60.0'

10. SIZE AND TYPE OF BIT 1 3/8" ID splitspoon 4'

11. DATUM FOR ELEVATION SHOWN (TBM or MSL)

MLW

Fishtail, 4x5 1/2 BBL

12. MANUFACTURER'S DESIGNATION OF DRILL

Sprague & Henwood

13. TOTAL NO. OF OVER-
BURDEN SAMPLES TAKEN

DISTURBED

9

UNDISTURBED

0

14. TOTAL NUMBER CORE BOXES

15. ELEVATION GROUND WATER

16. DATE HOLE

STARTED

29 Sep 82

COMPLETED

30 Sep 82

17. ELEVATION TOP OF HOLE

0.0'

18. TOTAL CORE RECOVERY FOR BORING

%

19. SIGNATURE OF INSPECTOR

J. Arthur, Geologist

ELEVATION MLW	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
-19.0'	20		Water Bottom of Harbor: 19.0'		JAR	Note: Scale change at 20.0'. Blows
-19.0'	25		MH-Grayish green fat silt with some fine to coarse sand.		1	Note: 19.0' to 29.5' weight of hammer drove splitspoon.
-29.5'	30		SM-Grayish green medium to coarse silty sand with trace of fine gravel		2	
-29.5'	35		Green fine silty sand with some mica		3	
-29.5'	40		With some thin sand lenses		4	Note: 37.5' to 38.0' and 39.1' to 39.5' /0.5' in advertently cleaned hole.
-29.5'	45				5	100/0.9'
-29.5'	45				6	100/0.5'
-44.0'	45		No Recovery			100/0.6'
-50.0'	45		Continued on Sheet # 2 Note: Soils field classified in accordance with the Unified Soil Classification System.			70 100 100 Pull 1 44.0' to 51.0' Run 7.0' Rec 0.0' C.L. 7.0'
-50.0'	45					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

PROJECT

Savannah Harbor Comprehensive Study

INSTALLATION

Savannah, GA

Hole No. SH-77

SHEET
OF 2 2 SHEETS

ELEVATION
a

DEPTH
50 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)

Blows

-51.0'

No Recovery (Continued)

SM-Green fine silty sand
with some mica and thin sand
lenses.

7

8

9

Pull 1 (Continued)

60

56

100/0.8'

59

40

37

-60.0'

Bottom of Hole: 60.0'

DRILLING LOG

DIVISION
SOUTH ATLANTICINSTALLATION
SAVANNAH, GA.SHEET 1
OF 2 SHEETS1. PROJECT
SAVANNAH HARBOR DEEPENING2. LOCATION (Coordinates or Station)
X=850000 Y=759179 GA. EAST3. DRILLING AGENCY
SAVANNAH DISTRICT4. HOLE NO. (As shown on drawing title and file number)
SH-1545. NAME OF DRILLER
DAVID JUSTISS6. DIRECTION OF HOLE
☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.

7. THICKNESS OF OVERBURDEN 61.0' (Water 23.5')

8. DEPTH DRILLED INTO ROCK 0.0'

9. TOTAL DEPTH OF HOLE 61.0'

10. SIZE AND TYPE OF BIT 1 1/8" spiltspoon, 5/2" fishtail, 5 1/8" roller rock bit

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

14. TOTAL NUMBER CORE BOXES 0

15. ELEVATION GROUND WATER N/A

16. DATE HOLE : STARTED 4 DEC 91 : COMPLETED 4 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. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	BLOWS h
	20		Water			Scale change at 20.0'. Set 6" diameter casing by own weight to 27.1'.	
			Bottom of Harbor 23.5'				
-23.5'	25		(SM) Grey, medium to coarse silty SAND. Some fine to coarse gravel.		1	Used 5 1/8" roller rock bit from 25.0' to 28.0'. Began using Florigel drilling mud at 26.5'.	28
-26.5'			Trace of fine gravel & clay.		2	46.0' reset casing to 37.9'.	46
-28.0'	30		(SC) Grey, fine to medium, clayey SAND. Trace of fine gravel.		3		11
-31.0'			Thick layers of fat clay from 31.0' to 31.7'.				3
-32.5'	35		(SM) Grey, medium to coarse silty SAND. Trace of clay.		4		6
-35.5'			(SP) Greyish-tan, coarse, poorly graded SAND. Trace of silt.		5		5
-38.5'	40		Medium to coarse sand, trace of fine gravel.		6		25
-43.0'			No gravel.				33
-46.0'	45		(CL) Olive-grey, silty lean CLAY, some fine sand.		7		31
-47.5'			Trace of fine sand				24
-50.0'	50		Continued on sheet #2				28

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

BLOWS PER FOOT:

Number required to drive 1 1/8" I.D. spiltspoon w/140 lb. hammer falling 30".

DRILLING LOG (Cont Sheet)

ELEVATION TOP OF HOLE
0.0' MLW

PROJECT

SAVANNAH HARBOR DEEPENING

INSTALLATION

SAVANNAH, GA.

Hole No. SH-154

SHEET 2

OF 2 SHEETS

ELEVATION -50.0'	DEPTH 50	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
-50.5'			(CL) Olive-grey, silty, lean CLAY. Trace of fine sand.		8		
-53.5'			Dark olive-grey to grey.				20
	55		(CH) Dark olive-grey to grey, fat CLAY. Trace of silt.		9		15
-56.5'							15
-58.0'			Some silt.		10		18
			Trace of fine sand.				25
-61.0'	60				11		24
			Bottom of Boring 61.0'				25

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-840114 Y-758249 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-213				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 62.3' (WATER 41.7')				16. DATE HOLE		STARTED 20 MAR 92 COMPLETED 20 MAR 92	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 62.3'				18. TOTAL CORE RECOVERY FOR BORING N/A %			
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY JAR	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
0.0	0					BLOWS	
	35		Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 50.4'.	
	40		Bottom of Harbor 41.7'				
-41.7'	45		(CH) Very dark gray to black fat CLAY.		1	Weight of rods drove splitspoon from 41.7' to 46.0' and again from 46.0' to 50.3'. 0	
-46.0'	50		Trace of fine to medium sand.		2	0	
-50.3'	55		(SP) Greyish brown coarse poorly graded SAND, some fine gravel, trace of clay.		3	30	
-51.8'			(SC) Olive fine clayey SAND, trace of silt.		4	36	
-54.8'	60		Some silt.		5	37	
					6	34	
						26	
						23	
						28	
-62.3'			Bottom of Boring 62.3'			45	
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

Hole No. **SH-214**

1. PROJECT
SAVANNAH HARBOR DEEPENING

2. LOCATION (Coordinates or Station)
X-840594 Y-758106 GA. EAST

3. DRILLING AGENCY
SAVANNAH DISTRICT

4. HOLE NO. (As shown on drawing title and file number)
SH-214

5. NAME OF DRILLER
DAVID JUSTISS

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

7. THICKNESS OF OVERBURDEN 50.7' (WATER 44.6')

8. DEPTH DRILLED INTO ROCK 0.0'

9. TOTAL DEPTH OF HOLE 50.7'

INSTALLATION
SAVANNAH, GA.

SHEET 1
OF 1 SHEETS

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

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 2 UNDISTURBED 0

14. TOTAL NUMBER CORE BOXES 0

15. ELEVATION GROUND WATER N/A

16. DATE HOLE STARTED 22 MAR 92 COMPLETED 22 MAR 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 JAR	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
0.0	0	.				BLOWS
	35		Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 46.9'.
	40					
	45		Bottom of Harbor 44.6'			
-44.6'			(MH) Very dark grey to black clayey SILT, some fine to coarse sand.		1	Weight of rods drove splitspoon from 44.6' to 46.2'. 0
-46.2'			(SP) Dark grey to grey medium to coarse poorly graded SAND, some fine gravel, trace of silt.		2	Note: Boring terminated at 50.7' due to shipping traffic. 20
-47.7'			Fine to medium sand, no gravel.			21
-49.2'			No recovery.			21
-50.7'			Bottom of Boring 50.7'			30
	55		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".
	60					

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-840597 Y-758103 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-214A			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 59.5' (WATER 43.5')			16. DATE HOLE STARTED 22 MAR 92 COMPLETED 22 MAR 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 0.0	DEPTH 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e JAR	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	BLOWS
	35		Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 46.3'. Began using Zeogel drilling mud at 43.5'.	
-43.5'	45		Wash (See Log SH-214) Bottom of Wash 49.0'			Wash return contained some dark gray clayey silt particles and medium to coarse sand.	
-49.0'	50	•••••	(SP) Light grey medium to coarse poorly graded SAND, trace of fine gravel.		1		12
-50.5'		•••••	Medium sand, trace of silt.				28
-52.0'			(SM) Olive-grey fine silty SAND.		2		39
-53.5'			Trace of clay.				23
-55.0'	55		(SC) Olive-grey fine clayey SAND, some silt.		3		25
							42
-59.5'	60		Bottom of Boring 59.5'		4		24
			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

PROVISION
SOUTH ATLANTIC

Hole No. SH-215

1. PROJECT
SAVANNAH HARBOR DEEPENING

2. LOCATION (Coordinates or Station)
X-841526 Y-758559 GA. EAST

3. DRILLING AGENCY
SAVANNAH DISTRICT

4. HOLE NO. (As shown on drawing title and file number)
SH-215

5. NAME OF DRILLER
DOUGLAS LAROCHE

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

VANNAH, GA.

SHEET 1
OF 1 SHEETS

10. SIZE AND TYPE OF BIT 1 1/2" SPLITSPOON, 5 1/2" FISHTAIL

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

12. MANUFACTURER'S DESIGNATION OF DRILL
Failing 314

13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN
DISTURBED 3 UNDISTURBED 0

14. TOTAL NUMBER CORE BOXES 0

15. ELEVATION GROUND WATER N/A

16. DATE HOLE
STARTED 20 NOV 91 COMPLETED 20 NOV 91

17. ELEVATION TOP OF HOLE 0.0'

18. TOTAL CORE RECOVERY FOR BORING N/A

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

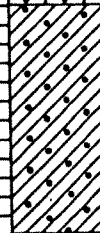
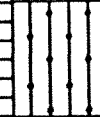
ELEVATION 0.0	DEPTH 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	BLOWS
	40		Water			Scale change at 40.0'.	
-43.4'			Bottom of Harbor 43.4'				
	45		(SC) Dark grey, medium grained SAND & CLAY. Saturated, sulfur odor.		1	Made several attempts at recovery. Changed retention spring. Took double drive. Used "SARAN" wrap to no avail.	22
-46.5'			No recovery. Wash was a whitish tan, medium grained, poorly graded sand.				12
	50						34
	55		(SW) Tan, fine to large grained well graded SAND. Trace of gravel (15%).		2		25
-52.5'							45
	60		(MH) Green, stiff, fat SILTY. Trace of sand & mica. moist. Slight organic odor.		3	BLOWS PER FOOT: Number required to drive 1 1/2" I.D. splitspoon w/140 lb. hammer falling 30".	16
-58.5'							29
-60.0'			Bottom of Boring 60.0'				25
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.				87
							41
							48

DRILLING LOG

DIVISION
SOUTH ATLANTICINSTALLATION
SAVANNAH, GA.SHEET 1
OF 1 SHEETSPROJECT
SAVANNAH HARBOR DEEPENING1. LOCATION (Coordinates or Station)
X-843032 Y-758229 GA. EAST3. DRILLING AGENCY
SAVANNAH DISTRICT4. HOLE NO. (As shown on drawing title and file number)
SH-2185. NAME OF DRILLER
DAVID JUSTISS6. DIRECTION OF HOLE
☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.7. THICKNESS OF OVERBURDEN **50.0' (Water 41.0')**8. DEPTH DRILLED INTO ROCK **0.0'**9. TOTAL DEPTH OF HOLE **50.0'**10. SIZE AND TYPE OF BIT **1 3/8" SPLITSPOON, 5 1/2" FISHTAIL**11. DATUM FOR ELEVATION SHOWN (TBM or MSU)
MLW12. MANUFACTURER'S DESIGNATION OF DRILL
Failing 31413. TOTAL NO. OF OVER-
BURDEN SAMPLES TAKEN **6** **UNDISTURBED**
014. TOTAL NUMBER CORE BOXES **0**15. ELEVATION GROUND WATER **N/A**16. DATE HOLE **STARTED**
16 JAN 92 **COMPLETED**
16 JAN 9217. 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 RECOVER- ERY e	BOX OR SAMPLE NO. f	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 44.4'.	
	40		Bottom of Harbor 41.0 42.8'				
-41.0'			(MH) Dark grey to black clayey SILT.		1		0
-42.5'			(SM) Dark grey to black, medium to coarse silty SAND. Some clay.		2		4
-44.0'			(SC) Dark grey to black, medium to coarse clayey SAND. Some silt.		3		15
-45.0'	45		(SM) Dark grey, fine to medium, silty SAND. Some clay.		4		16
-45.5'			(SP) Tannish-light grey, coarse, poorly graded SAND. Trace of silt.		5		22
			With some fine gravel.		6		56
-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". FOR THE LAST FACTOR EACH DRIVE	
						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, 5/2" FISHTAIL	
2. LOCATION (Coordinates or Station) X-844074 Y-758606 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-220			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 60.0' (Water 38.3')			16. DATE HOLE STARTED 21 JAN 92 COMPLETED 21 JAN 92	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0'	
9. TOTAL DEPTH OF HOLE 60.0'			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 RECOVERY e	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) f	BLOWS g
			Water			Scale change at 35.0'. Set 6" diameter casing by own weight to 43.5'.	
	35		Bottom of Harbor 38.3'				
38.3'	40		(CH) Dark grey to black fat CLAY. Some silt.		1	Weight of rods drove splitspoon from 38.3' to 43.5'.	0
-43.5'	45		(SM) Olive, fine silty SAND. Some clay.		2		100/0.4
-48.0'	50		Light olive, trace of clay.		3		71
-51.0'	55		(SC) olive-grey, fine clayey SAND. Some silt.		4		45
-57.0'	60		(SM) Dark grey, fine, silty SAND. Some clay.		5		100/0.9
					6		100/0.9
					7		49
-60.0'			Bottom of Boring 60.0'				51
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.				32
							25
							86
							48
						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-846062 Y-758304 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-222				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 23 NOV 91 COMPLETED 23 NOV 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	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 44.9'.	
-42.9'	40		Bottom of Harbor 42.9'				
			(MH) Dark grey to black clayey SILT. Very soft & wet.		1	0	
-44.5'	45		(SM) Grey, coarse silty SAND.		2	Weight of rods drove splitspoon from 42.9' to 45.9'.	
-47.4'			(SP) Tannish-grey, coarse, poorly graded SAND. Trace of silt.		3	11	
-50.4'	50		(SC) Olive-grey, fine clayey SAND. Some silt.		4	22	
			Occasional clay layer up to 0.1' thick.		5	31	
-56.4'	55		No clay layers.		6	24	
-57.9'	60		Bottom of Boring 60.9'			24	
-60.9'	30		NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			18	
						BLOWS PER FOOT: Number required to drive 1 3/8" I.D. splitspoon w/140 lb. hammer falling 30".	

Hole No. SH-224

DRILLING LOG		ON 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-847301 Y-758103 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-224			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 60.8' (Water 41.5')			16. DATE HOLE STARTED 12 FEB 92 COMPLETED 12 FEB 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 RECOVER- 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 44.8'.	
-41.5'	40		Bottom of Harbor 41.5'				
-44.3'	45		(MH) Very dark grey to black clayey SILT.		1	Weight of rods drove split spoon from 41.5' to 44.3'.	0
			(SM) Olive, fine silty SAND. Trace of clay.		2		77
							100/0.8'
-48.8'	50		Olive-grey.		3		83
							78
							100/0.7'
							100/0.9'
-54.8'	55		Some clay.		4		75
-56.3'					5		37
			(SC) Dark olive-grey, fine clayey SAND. Some silt.				28
							30
-60.8'	60				6		30
			Bottom of Boring 60.8'				
	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. split spoon w/140 lb. hammer falling 30".	

DRILLING LOG		STATION SOUTH ATLANTIC		INSTALLATION SAVANNAH, GA.		Hole No. SH-225	
1. PROJECT SAVANNAH HARBOR DEEPENING				10. SIZE AND TYPE OF BIT 1 3/8" splitspoon, 51/2" Fishtail		SHEET 1 OF 1 SHEETS	
2. LOCATION (Coordinates or Station) X-847906 Y-758626 GA. EAST				11. DATUM FOR ELEVATION SHOWN 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-225				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5 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 60.5' (Water 44.0')				16. DATE HOLE STARTED 12 FEB 92 COMPLETED 12 FEB 92			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.5'				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					
			Water			
	40					Scale change at 40.0'. Set 6" diameter casing by own weight to 45.4'.
-44.0'			Bottom of Harbor 44.0'			
-45.5'	45		(MH) Very dark grey to black, clayey SILT. Trace of medium to coarse sand.		1	Weight of rods drove splitspoon from 44.0' to 45.5'. 0
-47.0'			(SC) Olive, fine clayey SAND. Some silt.		2	100/0.8
			(SM) Olive, fine silty SAND. Some clay.		3	100/0.9
	50					100/0.9
-53.0'			(SC) Olive, fine clayey SAND. Some silt.		4	100/0.9
	55				5	100/0.9
						46
						48
						37
-60.5'	60				6	26
						33
	30		Bottom of Boring 60.5'			
			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 1/2" splitspoon, 51/2" Fishtail			
2. LOCATION (Coordinates or Station) X-848357 Y-759173 GA. EAST				11. DATUM FOR ELEVATION SHOW WBM 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-226				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 60.5' (Water 42.2')				16. DATE HOLE		STARTED 8 FEB 92 COMPLETED 8 FEB 92	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.5'				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 47.0'.	
-42.2'	40		Bottom of Harbor 42.2'				
			(MH) Very dark grey to black clayey SILT.		1	weight of rods drove splitspoon from 42.2' to 47.0'. Jar sample 2 from 46.3' to 47.0'. 0	
-46.3'	45		(SC) Very dark grey & olive grey, fine to medium clayey SAND.		2		
-47.0'			(SM) Olive, fine, silty SAND. Trace of clay.		3	100/0.9	
	50		Olive grey, some clay.		4	25	
-50.0'						84	
	55		Dark grey, trace of clay.		5	56	
-54.5'						49	
-56.5'			Some clay.		6	37	
	60					31	
-60.5'			Bottom of Boring 60.5'			25	
			NOTE: Soils visually field classified in accordance with the Unified Soil Classification System.			27	
						BLOWS PER FOOT: Number required to drive 1 1/8" I.D. splitspoon w/140 lb. hammer falling 30".	

DRILLING LOG		10N 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-848947 Y-759082 GA. EAST				11. DATUM FOR ELEVATION SHOW 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 title number) SH-227				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 60.0' (Water 44.4')				16. DATE HOLE		STARTED 8 FEB 92 COMPLETED 8 FEB 92	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.0'				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 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 46.3'.	
-44.4'	40		Bottom of Harbor 44.4'				
-45.8'	45		(MH) Very dark grey to black clayey silt, trace of fine sand.		1	Weight of rods drove splitspoon from 44.4' to 46.5'. Jar sample 2 from 45.8' to 46.5'. 0	
			(SM) Olive-grey, fine silty SAND. Trace of clay.		2		
					3	100/0.8	
-49.5'	50		Some clay.		4	100/0.9	
					5	73	
					6	60	
						54	
						38	
						35	
						41	
-60.0'	60		Bottom of Boring 60.0'			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

DIVISION
SOUTH ATLANTIC

INSTALLATION
SAVANNAH, GA.

SHEET 1
OF 1 SHEETS

1. PROJECT
SAVANNAH HARBOR DEEPENING

2. LOCATION (Coordinates or Station)
X-850377 Y-759452 GA. EAST

3. DRILLING AGENCY
SAVANNAH DISTRICT

4. HOLE NO. (As shown on drawing title and file number)
SH-228

5. NAME OF DRILLER
DAVID JUSTISS

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

7. THICKNESS OF OVERBURDEN 60.2' (Water 33.2')

8. DEPTH DRILLED INTO ROCK 0.0'

9. TOTAL DEPTH OF HOLE 60.2'

10. SIZE AND TYPE OF BIT 1 3/8" SPLITSPOON, 5/2" FISHTAIL

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

12. MANUFACTURER'S DESIGNATION OF DRILL
Failing 314

13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN
DISTURBED 8 UNDISTURBED 0

14. TOTAL NUMBER CORE BOXES 0

15. ELEVATION GROUND WATER N/A

16. DATE HOLE STARTED 19 DEC 91 COMPLETED 19 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 0.0	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
	30		Water Bottom of Harbor 33.2'			Scale change at 30.0'. Set 6" diameter casing by own weight to 36.6'.	
-33.2'	35		(MH) Dark grey to black clayey SILT. Some fine to medium sand.		1	Weight of rods drove splitspoon from 33.2' to 36.2'.	0
-36.2'			(SC) Olive-grey, fine clayey SAND. Trace of silt & mica.		2		22
	40				3		51
							37
	45				4		76
							78
	50		Some silt.		5		41
-46.7'							28
-48.2'			Trace of silt.		6		72
	55		(CL) Olive-grey, silty, lean CLAY. Some fine sand.		7		46
52.7'			(SC) Olive-grey, fine clayey SAND. Trace of silt & mica.		8		26
-54.2'							33
	60		Bottom of Boring 60.2'				19
-60.1'							21
							20
							21
							21

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. SH-229	
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=850478 Y=760035 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-229				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 6		DISTURBED 0 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 60.5' (WATER 45.5')				16. DATE HOLE STARTED 9 FEB 92		COMPLETED 9 FEB 92	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.5'				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 JAR	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	BLOWS
	35		Water			Scale change at 45.0'. Set 6" diameter casing by own weight to 48.1'.	
-45.5'	45		Bottom of Harbor 45.5'				
-47.5'			(MH) Very dark grey to black clayey SILT.		1	Weight of rods drove splitspoon from 45.5' to 48.5'. Jar sample #2 from approx. 47.5' to 48.5'.	
-48.5'			(SC) Dark grey and olive-grey fine to medium clayey SAND, some silt.		2		
-50.0'	50		(SM) Olive-grey fine silty SAND, some clay.		3		76
			Trace of clay.				100/0.4'
							100/0.6'
-54.5'	55		(SC) Dark olive-grey fine clayey SAND, some silt.		4		99
					5		45
							32
							33
-60.5'	60		Bottom of Boring 60.5'		6		42
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
ANNAH, GA.SHEET 1
OF 1 SHEETS1. PROJECT
SAVANNAH HARBOR DEEPENING2. LOCATION (Coordinates or Station)
X=851276 Y=760134 GA. EAST3. DRILLING AGENCY
SAVANNAH DISTRICT4. HOLE NO. (As shown on drawing title and file number)
SH-2305. NAME OF DRILLER
DAVID JUSTISS6. DIRECTION OF HOLE
☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.

7. THICKNESS OF OVERBURDEN 60.4' (WATER 45.4')

8. DEPTH DRILLED INTO ROCK 0.0'

9. TOTAL DEPTH OF HOLE 60.4'

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

11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
MLW12. MANUFACTURER'S DESIGNATION OF DRILL
FALLING 31413. TOTAL NO. OF OVER-
BURDEN SAMPLES TAKEN :DISTURBED :UNDISTURBED
4 : 0

14. TOTAL NUMBER CORE BOXES 0

15. ELEVATION GROUND WATER N/A

16. DATE HOLE :STARTED :COMPLETED
9 FEB 92 9 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 RECOVER- ERY JAR	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc. if significant) g	BLOWS
	15 35		Water			Scale change at 45.0'. Set 6" diameter casing by own weight to 46.5'.	
	30 40						
	45		Bottom of Harbor 45.4'				
-45.4'			(SM) Olive-grey fine silty SAND, some clay, layer of medium to coarse sand from 45.4' to 45.6'.		1	Weight of rods drove splitspoon from 45.4' to 46.7'.	4 35 78
-49.9'	50		Light olive-grey, trace of clay.		2		100/0.5'
-51.4'			Indurated layer, 1/4" thick at approx. 52.0'.				100/0.9'
-52.9'			Dark olive-grey, some clay.				51
-54.4'	55		(SC) Dark olive-grey fine clayey SAND, some silt.		3		46 30 26
					4		43
-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		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-852021 Y-760208 GA. EAST				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW			
3. DRILLING AGENCY SAVANNAH DISTRICT				12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500			
4. HOLE NO. (As shown on drawing title and file number) SH-231				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 4 UNDISTURBED 0	
5. NAME OF DRILLER DOUGLAS LaROCHE				14. TOTAL NUMBER CORE BOXES 0			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A		16. DATE HOLE 19 NOV 91	
7. THICKNESS OF OVERBURDEN 60.0' (Water 42.9')				17. ELEVATION TOP OF HOLE 0.0'		COMPLETED 19 NOV 91	
8. DEPTH DRILLED INTO ROCK 0.0'				18. TOTAL CORE RECOVERY FOR BORING N/A			
9. TOTAL DEPTH OF HOLE 60.0'				19. SIGNATURE OF INSPECTOR CHRIS DAVID LEETH, GEOLOGIST			
ELEVATION 0.0	DEPTH 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f JAR	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g BLOWS	
	40		Water			Scale change at 40.0'.	
-42.9'	45		Bottom of Harbor 42.9'				
	45		(MH) Green, stiff, fat silt. Trace of sand, moist, slight organic odor.			Weight of hammer drove splitspoon to 48.0'. 0	
	50				1	61	
	50					86	
	50					100/0.4	
-54.0'	55		Trace of gravel & sand.		2	77	
	55				3	100/0.6	
-57.0'	55					100	
	55		No gravel.			96	
-60.0'	60				4	76	
	60		Bottom of Boring 60.0'				
	60		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=852921 Y=761143 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-233			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 59.7' (WATER 44.0')			16. DATE HOLE		STARTED 10 FEB 92 COMPLETED 10 FEB 92	
8. DEPTH DRILLED INTO ROCK 0.0'			17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 59.7'			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 JAR	BOX OR SAMPLE NO. f	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 46.9'.	
-44.0'	45		Bottom of Harbor 44.0'				
			(MH) Very dark grey to black clayey SILT, some fine to medium sand.		1	Weight of rods drove splitspoon from 44.0' to 46.2'. No recovery. Re-drove to 46.2', then continued drive to 47.7'. Jar sample #1 from 44.0' to 47.7'.	0
-47.7'			(SM) Olive-grey fine silty SAND, some clay.		2		14
-49.2'	50		Trace of clay				69
			Some clay.		3		100/0.9'
-52.2'			Trace of clay.				100/0.7'
-53.7'			Light olive-grey.		4		66
-55.2'	55		Olive-grey, some clay.				100/0.9'
					5		100/0.5'
-58.2'							100/0.5'
-59.7'	60		Bottom of Boring 59.7'				100
			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=853569 Y=760911 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-234				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 59.8' (Water 44.8')				16. DATE HOLE		STARTED 11 FEB 92 COMPLETED 11 FEB 92	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 59.8'				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	BOX OR SAMPLE NO. JAR	REMARKS (Drilling time, water loss, depth of weathering, etc. if significant) g	
			Water				
	40		Bottom of Harbor 44.8'			Scale change at 40.0'. Set 6" diameter casing by own weight to 46.4'.	
-44.8'	45		(MH) Very dark grey to black clayey SILT.		1	Weight of rods drove splitspoon from 44.8' to 46.3'.	
-46.3'			(SM) Olive-grey, fine silty SAND. Some clay.		2		
	50						
			Olive, trace of clay.		3		
-53.8'	55		(SC) Olive-grey, fine clayey SAND. Some silt.		4		
-55.3'			Trace of silt.				
-56.8'			Some silt.		5		
-58.3'							
-59.8'	60		Bottom of Boring 59.8'			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 ANNAH, 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-854160 Y-761499 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-235			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 44.4')			16. DATE HOLE STARTED 11 FEB 92 COMPLETED 11 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	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY JAR	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc. if significant)	BLOWS
0.0	0.0						
			Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 45.2'.	
	40						
			Bottom of Harbor 44.4'				
-44.4'	45		(MH) Very dark grey to black clayey SILT.		1		
-44.9'			(SM) Olive-grey fine silty SAND, some clay.		2	Weight of rods drove splitspoon from 44.4' to 45.7', continued drive to 45.9'. Jar sample #2 from approx. 44.9' to 45.9'.	5
-45.9'			(SC) Dark olive-grey fine clayey SAND, some silt.		3		100/0.8'
							100/0.9'
							100/0.9'
	50				4		58
							92
-53.4'			Light olive-grey.		5		100/0.9'
-54.9'	55		Olive-grey, trace of silt.				66
							52
							43
	60				6		36
-60.9'			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 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 3/4" splitspoon, 5 1/2" fishtail			
2. LOCATION (Coordinates or Station) X-854829 Y-762259 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-236				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		13. DISTURBED 6	
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES		14. UNDISTURBED 0	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 59.9' (Water 44.9')				16. DATE HOLE		16. STARTED 13 FEB 92	
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE		17. COMPLETED 13 FEB 92	
9. TOTAL DEPTH OF HOLE 59.9'				18. TOTAL CORE RECOVERY FOR BORING		18. 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	c	d	e	UAR	f	
	40		Water			Scale change at 40.0'. Set 6" diameter casing by own weight to 45.5'.	
	45		Bottom of Harbor 44.9'				
-44.9'	45		(MH) Very dark grey to black, clayey SILT.		1	Weight of rods drove splitspoon from 44.9' to 45.7'. Jar sample	
-45.4'			(SC) Olive-grey, fine clayey SAND. Some silt.		2	2 taken from approx. 45.4' to 46.4'.	
					3		
	50		Trace of silt.		4		
-50.9'							
	55		Dark olive-grey.		5		
-55.4'							
	60		Bottom of Boring 59.9'		6		
-59.9'							
				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 2 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-858444 Y-766361 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-246				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 4 UNDISTURBED 0	
5. NAME OF DRILLER DOUGLAS LaROCHE				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 60.0'				16. DATE HOLE STARTED 13 NOV 91 COMPLETED 13 NOV 91			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE 0.0'			
9. TOTAL DEPTH OF HOLE 60.0'				18. TOTAL CORE RECOVERY FOR BORING N/A			
				19. SIGNATURE OF INSPECTOR DAVID CHRIS LEETH, GEOLOGIST			
ELEVATION 0.0'	DEPTH 0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY	BOX OR SAMPLE NO. f	REMARKS weathering, etc. if significant g	
			Water				
	5						
	10						
	15						
	20						
	25						
	30						
-30.0'							
			Continued on page 2				

DRILLING LOG (Con' sheet)		ELEVATION TOP OF HOLE 0.0' MLW		Hole No. SH-246			
PROJECT SAVANNAH HARBOR DEEPENING		INSTALLATION SAVANNAH, GA.		SHEET 2 OF 2 SHEETS			
ELEVATION -30.0'	DEPTH 30	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	BLOWS
	35						
			Bottom of Harbor 42.9'				
-42.9'			(MH) Green, fat SILT. Trace of mica. Dry, mild organic odor.		1		26
	45						39
							30
-49.0'							38
	50		5-10% very fine sand in lenses.		2		38
							34
-52.0'							47
	55		No sand.		3		49
							35
							24
	60				4		37
-60.0'			Bottom of Boring 60.0'				
	65						

DRILLING LOG		0" "ION 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-860277 Y-765739 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-249				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 59.5' (WATER 45.5')				16. DATE HOLE		STARTED 24 MAR 92	COMPLETED 24 MAR 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 0.0	DEPTH 0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY JAR	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g BLOWS	
	15 35		Water			Scale change at 45.0'. Set 6" diameter casing by own weight to 47.6'.	
-45.5'	45		Bottom of Harbor 45.5'				
-47.5'			(CH) Very dark grey to grey fat CLAY, some wood from approx. 47.0' to 47.5', trace of fine to coarse sand.		1	Weight of rods drove splitspoon from 45.5' to 47.5'. 0	
-50.5'	50		(SP) Grey fine to medium poorly graded SAND, some wood, trace of silt and mica.		2	17	
-52.0'			(SM) Grey medium to coarse silty SAND, some clay, trace of fine gravel.		3	15	
-53.5'			(CL) Olive-grey lean CLAY, some silt, trace of fine sand. Trace of silt.		4	25	
	55		(SC) Olive-grey fine clayey SAND, trace of silt.		5	48	
						18	
						30	
						27	
-59.5'	60		Bottom of Boring 59.5'		6	27	
			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, 4 X 5 1/2" carbide bit			
2. LOCATION (Coordinates or Station) X-860266 Y-765740 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-249A				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 0	UNDISTURBED 0
5. NAME OF DRILLER DAVID JUSTISS				14. TOTAL NUMBER CORE BOXES 1			
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER N/A			
7. THICKNESS OF OVERBURDEN 60.3' (WATER 46.5')				16. DATE HOLE		STARTED 24 MAR 92	COMPLETED 24 MAR 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 59		%	
				19. SIGNATURE OF INSPECTOR JAMES ARTHUR, P.G.			
ELEVATION 0.0	DEPTH 0.0	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY JAR	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
	15 35		Water			Scale change at 45.0'. Set casing to 51.8'.	
	30 40						
	45		Bottom of Harbor 46.5'				
	50		Wash.				
	52.0'		Bottom of Wash 52.0'				
	53.3'		(CL) Olive-grey lean CLAY, trace of fine sand.			Pull-1: 52.0'-55.5' Run: 3.5', Rec.: 1.3', C. L.: 2.2' Hyd. press: 75 psi Drilling time: 24 min. Rec.: 37%, Rqd.: 0	
	53.5'		Core loss.				
	55		(SC) Olive-grey fine clayey SAND, close to very close horizontal breaks.				
	60		Core loss.		BOX 1	Pull-2: 55.5'-60.3' Run: 4.8', Rec.: 3.6', C. L.: 1.2' Hyd. press: 0 psi Drilling time: 43 min. Rec.: 75%, Rqd.: 17	
	60.3'		Bottom of Boring 60.3'				
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 1/2" fishtail	
2. LOCATION (Coordinates or Station) X-861860 Y-764479 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-253		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN 4 DISTURBED 4 UNDISTURBED 0	
5. NAME OF DRILLER DOUGLAS LAROCHE		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 60.0' (Water 45.2')		16. DATE HOLE STARTED 18 NOV 91 COMPLETED 18 NOV 91	
8. DEPTH DRILLED INTO ROCK 0.0'		17. ELEVATION TOP OF HOLE 0.0'	
9. TOTAL DEPTH OF HOLE 60.0'		18. TOTAL CORE RECOVERY FOR BORING N/A %	
		19. SIGNATURE OF INSPECTOR David C. Leath	

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 45.0'.	
-45.2'	45		Bottom of Harbor 45.2'				
			(MH) Green, stiff, fat SILT. Trace of sand, dry, mild odor.		1		47
							69
					2		25
	50						42
							44
					3		25
	55						30
							39
							41
					4		54
-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".	

SAVANNAH HARBOR BORING LOGS

From Station 24+000

To

Station 40+000

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah River, SA		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 36+000N, R= "12"				11. DATUM FOR ELEVATION SHOWN (TBM or MLW) 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-52				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			
7. THICKNESS OF OVERBURDEN 55.0'				16. DATE HOLE		STARTED 9 Feb 78 COMPLETED 9 Feb 78	
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 5			
				19. SIGNATURE OF INSPECTOR CHARLES D. GRIFFIN			
ELEVATION 0.0 MLW	DEPTH 0'	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOV- ERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)	
	5'		Water				
	10'						
	15'		Bottom of river -16.0' MLW		JAR		
-16.0			SM - Tan and gray silty fine and medium sand		1		
	20'						
	25'		Gray				
	30'						
-30.0			Continued on sheet 2		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		Hole No. SH-52		
PROJECT		INSTALLATION		SHEET 2		
Savannah Harbor		Savannah River, 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)
a	30'	c	d	e	f	g
-34.0			SM - Gray silty fine and medium sand			
	35'		GM - Gray silty coarse sand and gravel		3	
-42.0	40'		CH - Dark green fat clay with some traces of very fine sand		4	
	45'					
	50'				5	
-55.0	55'		Bottom of hole -55.0' MLW			

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah River, GA		SHEET 1 OF 2 SHEETS	
1. PROJECT Savannah Harbor				10. SIZE AND TYPE OF BIT 1 3/8" ID split spoon			
LOCATION (Coordinates or Station) See Plan Sta 35+000N, R= "11"				11. DATUM FOR ELEVATION SHOWN (TBM = 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-53				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 56.0'				16. DATE HOLE STARTED 10 Feb 78 COMPLETED 10 Feb 78			
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	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'						
	5'		Water				
	10'						
	15'						
-18.5			Bottom of river -18.5' MLW		JAR	Blows	
	20'		OH - Gray clayey silt and sand mixture, very soft, NOTE: Weight of hammer pushed rods with split spoon from -18.5' to 27.5'		1	0	
	25'					0	
						0	
-28.5						0	
	30'		SM-tan silty fine and medium sand		2	1	
-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 split spoon w/ 140 lb hammer falling 30'	

DRILLING LOG (Cont Sheet)		FROM TOP OF HOLE		Hole No.			
PROJECT		INSTALLATION		SHEET 2			
Savannah Harbor		Savannah River, GA		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'						12
			SM - Tan silty fine and medium sand				16
							18
	35'		Gray medium to coarse sand				20
							19
							19
	40'		Coarse silty sand with a fat clay layer		3		20
							25
							31
	45'		Gray coarse sand				40
							44
							51
-49.5	50'		CH - Green fat clay		4		40
							28
							30
	55'						29
-56.0			Bottom of hole -56.0' MLW				36

Hole No. SH-54

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Savannah River, 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 34+000N, R= "10"				11. DATUM FOR ELEVATION SHOWN (TBM = 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-54				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 3	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 5 Feb 78 COMPLETED 5 Feb 78			
8. DEPTH DRILLED INTO ROCK 0.0'				17. ELEVATION TOP OF HOLE			
9. TOTAL DEPTH OF HOLE 55.0' 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'	c					
	5'						
	10'		Water				
	15'						
	20'						
	25'						
	30'						
-30.0							
Continued on sheet 2							
NOTE: Soils field classified in accordance with Unified Soil Classification System.				BLOWS PER FOOT: Number required to drive 3/8" ID splitspoon w/ 140 lb hammer falling 30"			

DRILLING LOG (Cont Sheet)			FROM TOP OF HOLE		0.0 MLW		Hole No. SB-54	
OBJECT			INSTALLATION				SHEET	
Javannah Harbor			Savannah River, GA				OF 2	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)		
30.0	30.6	c	d			-E		
			Water Bottom of river -31.5' MLW					
			SM - Gray silty fine and medium sand		1	10		
	35'					12		
						19		
						24		
	40'		Medium sand with gravel			25		
						33		
						51		
-43.5						40		
	45'		CH - Green fat clay		2	20		
						19		
						1		
	50'					25		
						30		
					3	28		
						33		
-55.5	55'		Bottom of hole -55.5' MLW			40		

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Savannah River, 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 33+000. R= "10"		11. DATUM FOR ELEVATION SHOWN (TBM or MLW) 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-55		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 4 Feb 78 COMPLETED 4 Feb 78		
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	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'					
	5'					
	10'		Water			
	15'					
	20'					
	25'					
-29.5			Bottom of river -29.5' MLW		JAR	B10
-30.0	30'		SM-Gray fine silty soft sand 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"

BILLING LOG (Cont Sheet)		.ION TOP OF HOLE 0.0 MLW		Hole No. SH-55		
OBJECT		INSTALLATION		SHEET 2 OF 2 SHEETS		
ELEVATION a	DEPTH 306	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
	35'		SM-Dark gray fine silty sand interbedded with soft silt		1	
	40'		Fine and medium sand		2	
	45'		CH-Green fat clay		3	
	50'				4	
-43.0	55'		Bottom of hole -55.0' MLW			

