

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 6 SHEETS
1. PROJECT C&SF US DOI Modified Waters to ENP 8.5 Square Mile Area			9. SIZE AND TYPE OF BIT See Remarks	
2. BORING DESIGNATION CP02-85SMA-CB-0087		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83
3. DRILLING AGENCY Law Engineering, Inc.		11. MANUFACTURER'S DESIGNATION OF DRILL CME-75		<input checked="" type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER David Kirby		12. TOTAL SAMPLES		DISTURBED 34
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES		UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		7
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING		STARTED 11-08-02
8. TOTAL DEPTH OF BORING 100.0 Ft.		16. ELEVATION TOP OF BORING		COMPLETED 11-10-02
		17. TOTAL RECOVERY FOR BORING		6.9 Ft.
		18. SIGNATURE AND TITLE OF INSPECTOR		85 %
				Jeremy Bernauer, Geotechnical Engineer

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/0.5 FT.	N-VALUE
6.9	0.0		SAND, poorly-graded, mostly subrounded fine-grained quartz, moist, tan (SP) At El. 6.4 Ft., thin limestone seams	100	1		SPT Sampler	22 16 12	28
4.4	2.5		LIMESTONE, 0, hard, moderately weathered, fine-grained, pitted, solution-filled cavities, tan	100		RQD 85	4 x 5-1/2" Diamond Set Bit DT = 11 mins HP = 200 psi		5
		Moderately Weathered	From El. -1.1 to -2.6 Ft., 0, black mineral deposits		BOX 2				
			At El. -4.6 Ft., 0, slightly weathered, porous, tan	100		RQD 85	4 x 5-1/2" Diamond Set Bit DT = 20 mins HP = 200 psi		10
		Slightly Weathered		90	BOX 3	RQD 70	4 x 5-1/2" Diamond Set Bit DT = 14 mins HP = 200 psi		15

DRILLING LOG (Cont. Sheet)		INSTALLATION Jacksonville District			SHEET 2 OF 6 SHEETS					
PROJECT C&SF US DOI Modified Waters to ENP		COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88					
LOCATION COORDINATES X = 816,590 Y = 482,230		ELEVATION TOP OF BORING 6.9 Ft.								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/0.5 FT.	N-VALUE	
			From El. -8.6 to -9.6 Ft., 0, lateral fracture	90		RQD 70	4 x 5-1/2" Diamond Set Bit DT = 14 mins HP = 200 psi			
			At El. -9.6 Ft., 0, pitted, tan				-9.6			
			Slightly Weathered		95	BOX 3	RQD 85	4 x 5-1/2" Diamond Set Bit DT = 6 mins HP = 200 psi		
			Moderately Weathered	At El. -14.6 Ft., 0, moderately weathered, porous, fossiliferous, brown	80		RQD 60	4 x 5-1/2" Diamond Set Bit DT = 18 mins HP = 200 psi		
			Unweathered	At El. -19.6 Ft., 0, unweathered, light tan	100	BOX 4	RQD 90	4 x 5-1/2" Diamond Set Bit DT = 6 mins HP = 200 psi		
			At El. -24.6 Ft., 0, slightly weathered	70	BOX 5	RQD 20	4 x 5-1/2" Diamond Set Bit DT = 3 mins HP = 200 psi			

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 3 OF 6 SHEETS			
PROJECT C&SF US DOI Modified Waters to ENP			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88			
LOCATION COORDINATES X = 816,590 Y = 482,230			ELEVATION TOP OF BORING 6.9 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 0.5 FT.	N-VALUE
		Slightly Weathered	At El. -39.6 Ft., 0, calcite replacement	70		RQD 20	4 x 5-1/2" Diamond Set Bit DT = 3 mins HP = 200 psi -29.6		35
				100	BOX 5	RQD 80	4 x 5-1/2" Diamond Set Bit DT = 13 mins HP = 200 psi -34.6		40
				60		RQD 40	4 x 5-1/2" Diamond Set Bit DT = 4 mins HP = 200 psi -39.6		45
				5	BOX 6	RQD 0	4 x 5-1/2" Diamond Set Bit DT = 0 min HP = 200 psi -44.6		50
-44.6	51.5								
		SAND, poorly-graded, mostly subrounded fine-grained quartz, strong reaction with HCl, moist, few limestone seams, white (SP)		100	2		SPT Sampler	4 9 12	21
-46.6	53.5							7	
		SAND, silty, mostly subrounded fine-grained quartz, some silt, few limestone fragments, gray (SM)		100	3		SPT Sampler	8 10	18
				100	4		SPT Sampler	4	

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 4 OF 6 SHEETS			
PROJECT C&SF US DOI Modified Waters to ENP			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88			
LOCATION COORDINATES X = 816,590 Y = 482,230			ELEVATION TOP OF BORING 6.9 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 0.5 FT.	N-VALUE
				100	4		SPT Sampler	13	29
							-49.1	16	
				100	5		SPT Sampler	12	29
							-50.6	17	
				100	6		SPT Sampler	3	7
			At El. -51.6 Ft., trace shell				-52.1	3	
				100	7		SPT Sampler	4	14
							-53.6	5	60
								9	
				100	8		SPT Sampler	6	12
			At El. -54.1 Ft., some shell				-55.1	6	
				100	9		SPT Sampler	3	9
							-56.6	4	
								5	
				100	10		SPT Sampler	3	10
							-58.1	4	65
								6	
				100	11		SPT Sampler	3	21
							-59.6	6	
								15	
				100	12		SPT Sampler	12	31
							-61.1	14	
								17	
				100	13		SPT Sampler	7	19
							-62.6	10	
								9	
				100	14		SPT Sampler	9	29
							-64.1	12	70
								17	
				100	15		SPT Sampler	10	28
							-65.6	9	
								19	
				70	16		SPT Sampler	3	10
							-67.1	5	
								5	
				80	17		SPT Sampler	6	
								6	75

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 5 OF 6 SHEETS			
PROJECT C&SF US DOI Modified Waters to ENP			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88			
LOCATION COORDINATES X = 816,590 Y = 482,230			ELEVATION TOP OF BORING 6.9 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 0.5 FT.	N-VALUE
				80	17		-68.6 SPT Sampler	7	13
				80	18		SPT Sampler	12	
							-70.1	10	22
								12	
				85	19		SPT Sampler	11	
							-71.6	14	29
								15	
				80	20		SPT Sampler	7	
							-73.1	11	25
								14	
				70	21		SPT Sampler	7	80
							-74.6	11	23
								12	
				75	22		SPT Sampler	8	
							-76.1	12	26
								14	
				80	23		SPT Sampler	12	
							-77.6	17	39
								22	
				10	24		SPT Sampler	6	85
							-79.1	12	32
								20	
				80	25		SPT Sampler	13	
							-80.6	23	44
								21	
				100	26		SPT Sampler	15	
							-82.1	13	29
								16	
			At El. -82.1 Ft., few shell	100	27		SPT Sampler	4	
							-83.6	5	13
								8	90
				100	28		SPT Sampler	8	
							-85.1	10	26
								16	
				100	29		SPT Sampler	13	
							-86.6	16	32
			At El. -86.6 Ft., some shell					16	
				100	30		SPT Sampler	14	
							-88.1	18	40
								22	95

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 6 OF 6 SHEETS			
PROJECT C&SF US DOI Modified Waters to ENP			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88			
LOCATION COORDINATES X = 816,590 Y = 482,230			ELEVATION TOP OF BORING 6.9 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/0.5 FT.	N-VALUE
-93.1	100.0			100	31		SPT Sampler	10 14	28
							-89.6	14	
				100	32		SPT Sampler	8 10 14	24
							-91.1	14	
				100	33		SPT Sampler	5 10 15	25
							-92.6	15	
				20	34		SPT Sampler	23	
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System.				140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.). Abbreviations: DT = Drill Time. HP = Hydraulic Pressure.		