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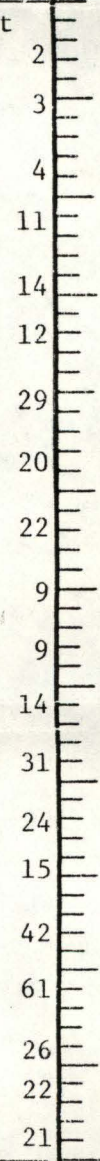
NH-C-1-80

Hole No. CBD-44

DRILLING LOG		DIVISION SOUTH ATLANTIC	INSTALLATION WILMINGTON DISTRICT	SHEET 1 OF 3 SHEETS
1. PROJECT Carolina Beach Renourishment		10. SIZE AND TYPE OF BIT 1 3/8" S.S.; 5 7/8"		
2. LOCATION (Coordinates or Station) N 103,242.55 E 2,328,385.85		11. DATUM FOR ELEVATION SHOWN (TBM or M.S.L.) rockbit; core barrel M.S.L.		
3. DRILLING AGENCY Mobile District		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314		
4. HOLE NO. (As shown on drawing title and file number) CBD-44		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED 37	UNDISTURBED --
5. NAME OF DRILLER James Knox		TOTAL NUMBER CORE BOXES 2		
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED _____ DEG. FROM VERT.		16. DATE HOLE	STARTED 8/21/80	COMPLETED 8/27/80
7. THICKNESS OF OVERBURDEN 107.5'		17. ELEVATION TOP OF HOLE 9.55		
8. DEPTH DRILLED INTO ROCK 9.15'		18. TOTAL CORE RECOVERY FOR BORING 100 %		
9. TOTAL DEPTH OF HOLE 116.65'		19. SIGNATURE OF INSPECTOR Alan Fryer & Porter Morgan		

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
9.55	0'		Sand, poorly graded, fine to med. grain, light gray (SP)		1	Blows/Ft
			Fine grain, tan		2	
					3	
					4	
	5'		Tan, Fine to medium grain		5	
			Light tan		6	
					7	
					8	
					9	
	15'		Tan		10	
					11	
					12	
					13	
	20'		Fine to coarse grain, Tan		14	
			Fine to medium w/peat layer Tan & Black		15	
			Fine to coarse grain w/some medium grain sand, tan to light brown		16	
	25'				17	
					18	
					19	
					20	
	30'		Continued on Sheet 2			
			Soils field classified in accordance with the Unified Soils Classification System.			Blows Per Foot: Number required to drive a 1 3/8" I.D. splitspoon using a 140 lb. hammer falling 30".

W.T. 2.05
8/21/80



DRILLING LOG (Cont Sheet)

ELEVATION TOP OF HOLE

9.55

Hole No. CBD-44

PROJECT

Carolina Beach Renourishment

INSTALLATION

WILMINGTON DISTRICT

SHEET 2

OF 3 SHEETS

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
-26.45	30'		Sand, poorly graded, fine to coarse grain, tan (SP)		21	Blows/ft.	
					22		29
					23		26
	35'		Light brown w/occ. gravel		24	16	
			Sandy silt, inorganic, gray-green, very fine sand (ML)		25	14	
					26	16	
	40'				27	29	
					28	25	
					29	50	
	45'				30	49	
					31	69	
				32	Note: Scale change at 50' to 1" = 20'		
				33	42		
				34	40		
	50'		Fishtail/rockbit, no samples taken.		34	32	
					35	26	
	70'		Sandy silt, gray-green (ML)		35	100+	
					36	100+	
			Fishtail/rockbit, no samples taken.				
					37		
	90'		Sandy silt, gray-green (ML)		37	Note: Scale change at 90' to 1" = 10'	
			Fishtail/rockbit, no samples taken; sandy silt as above.				
	100'					Note: Scale change at 100' to 1" = 5'	
	105'						

Continued on Sheet 3

DRILLING LOG (Cont Sheet)

ELEVATION TOP OF HOLE

9.55

Hole No. CBD-44

PROJECT

Carolina Beach Renourishment

INSTALLATION

WILMINGTON DISTRICT

SHEET

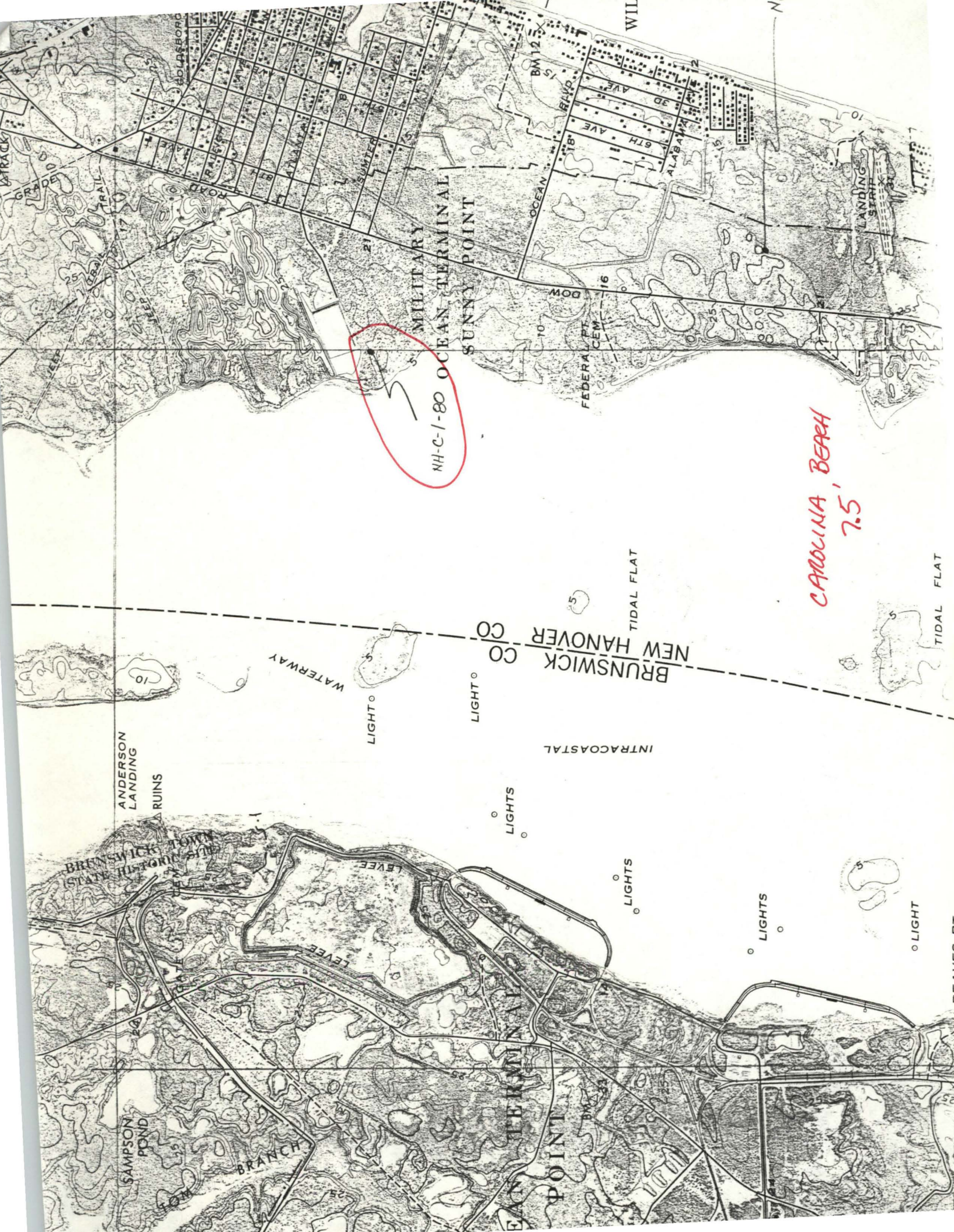
3

OF 3 SHEETS

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	105'		Fishtail/rockbit, no samples taken, sandy silt as above (ML)		X	Note: Scale change at 105' to 1" = 2' Note: Began 4"x5 1/2" core at 107.5'
	107'		TOP OF ROCK @ 107.5'			
-97.95			Phosphate, very hard, black, microcrystalline matrix w/ solution channels		1	Pull 1: 107.5' to 112.1' Run 4.6', Rec. 4.6', C.L. 0.0'
-98.55			Fossiliferous Limestone, med. gray, very hard, microcrystalline matrix and cement, vuggy, occ. solution cracks, grades into glauconitic limestone below	100		
-101.25			Bryozoan Limestone, greenish-gray, slightly glauconitic, moderately hard to moderately soft, well cemented to friable matrix, occasional burrow fillings, occasional whole large shells, broken into sections 0.5' to 1.5' in length.		2	Pull 2: 112.1' to 116.65' Run 4.55', Rec. 4.55' C.L. 0.0'
	113'			100		
	115'				Box	
	116.65'				2	
-107.1						C.D. 116.6'

*** SAMPLE TAKEN (NCGS)**

Note: Hole grouted with 15 bags of cement, from the bottom.



NH-C/-80

CAROLINA BEACH
7.5