

VIBRACORE LOG

Project: <u>CAPTIVA ISLAND, PHASE II</u>		Core No: <u>C-10</u>	
Coordinates:	Date: <u>11/29/90</u>	Water Depth <u>23'</u> NGVD	
N = <u>786948</u>	Start Time <u>1314</u>	Driller <u>RODNEY MEYER</u>	
E = <u>431719</u>	End Time _____	Client Rep. <u>JEFF L. ANDREWS</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-23'	0		GREY SILTY FINE SANDS, QUARTZ, W/ SOME SHELL FRAGMENTS	(1) 1.0 (-24)	SM
Length of Barrel <u>20'</u>	-25'	2.0		DARK GREY SILTY FINE QUARTZ SANDS W/ SHELL FRAGMENTS & HASH	(2) 4.0 (-27)	SM
Penetration Depth <u>10'</u>	-30.7'	7.7		WHITISH, SILTY CEMENTED SHELL & LIMESTONE		
Length Recovered <u>9.8'</u>	-32.8'	10.9.8				
Length Retained <u>9.8'</u>		15				
Remarks:		20				

Support Vessel <u>DANIELLE MARIE</u> Positioning System <u>TRISPONDER</u> Positioning Remarks: _____	
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Weather <u>CLEAR</u> Wind Dir: <u>ESE</u> Est. Speed <u>5-10 KTS.</u> Waves Dir: <u>SOUTH</u> Height <u>1' - 1 1/2' CALM</u> Current Dir: <u>SOUTH</u> Est. Speed: <u>N/A</u>	
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Analysis By: <u>KEN JACKSON</u> Date: <u>DEC. 20-27, 1990</u> Analysis Method: <u>VISUAL LOG</u> <u>MECHANICAL SIEVE</u>	
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GRADATION ANALYSIS REPORT
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ ON: DEC.1990

SAMPLE NO.: C-10
SAMPLE ELEV. (FT. NGVD): -24.0
SAMPLE DEPTH (FT.): 1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 209.10
SAMPLE WEIGHT AFTER WASH (GRAMS): 179.40

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	2.80	1.34	98.66
7	-1.5	2.800	4.10	1.96	98.04
10	-1.0	2.000	5.50	2.63	97.37
14	-0.5	1.400	7.40	3.54	96.46
18	0.0	1.000	8.40	4.02	95.98
25	0.5	.710	10.20	4.88	95.12
35	1.0	.500	13.50	6.46	93.54
45	1.5	.355	16.70	7.99	92.01
60	2.0	.250	23.30	11.14	88.86
80	2.5	.180	34.50	16.50	83.50
120	3.0	.125	85.90	41.08	58.92
170	3.5	.090	160.70	76.85	23.15
200	3.75	.075	175.00	83.69	16.31
230	4.0	.063	193.15	92.37	7.63
PAN			209.10	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.145
MEDIAN (mm):	.115	SORTING:	.653
SILT/CLAY:	16.31%	KURTOSIS:	1.809
SKEWNESS:	-1.635		

PHI(5):	.54	PHI(16):	2.45	PHI(25):	2.67
PHI(50):	3.12	PHI(75):	3.47	PHI(84):	3.76
PHI(95):	4.08				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:CIC10A.TAB

COASTAL PLANNING & ENGINEERING, INC. • BOCA RATON • SARASOTA • JACKSONVILLE

GRADATION ANALYSIS REPORT
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KDJ ON: DEC.1990

SAMPLE NO.: C-10
SAMPLE ELEV. (FT. NGVD): -27.0
SAMPLE DEPTH (FT.): 4.0
SAMPLE TYPE:

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 201.90
SAMPLE WEIGHT AFTER WASH (GRAMS): 172.30

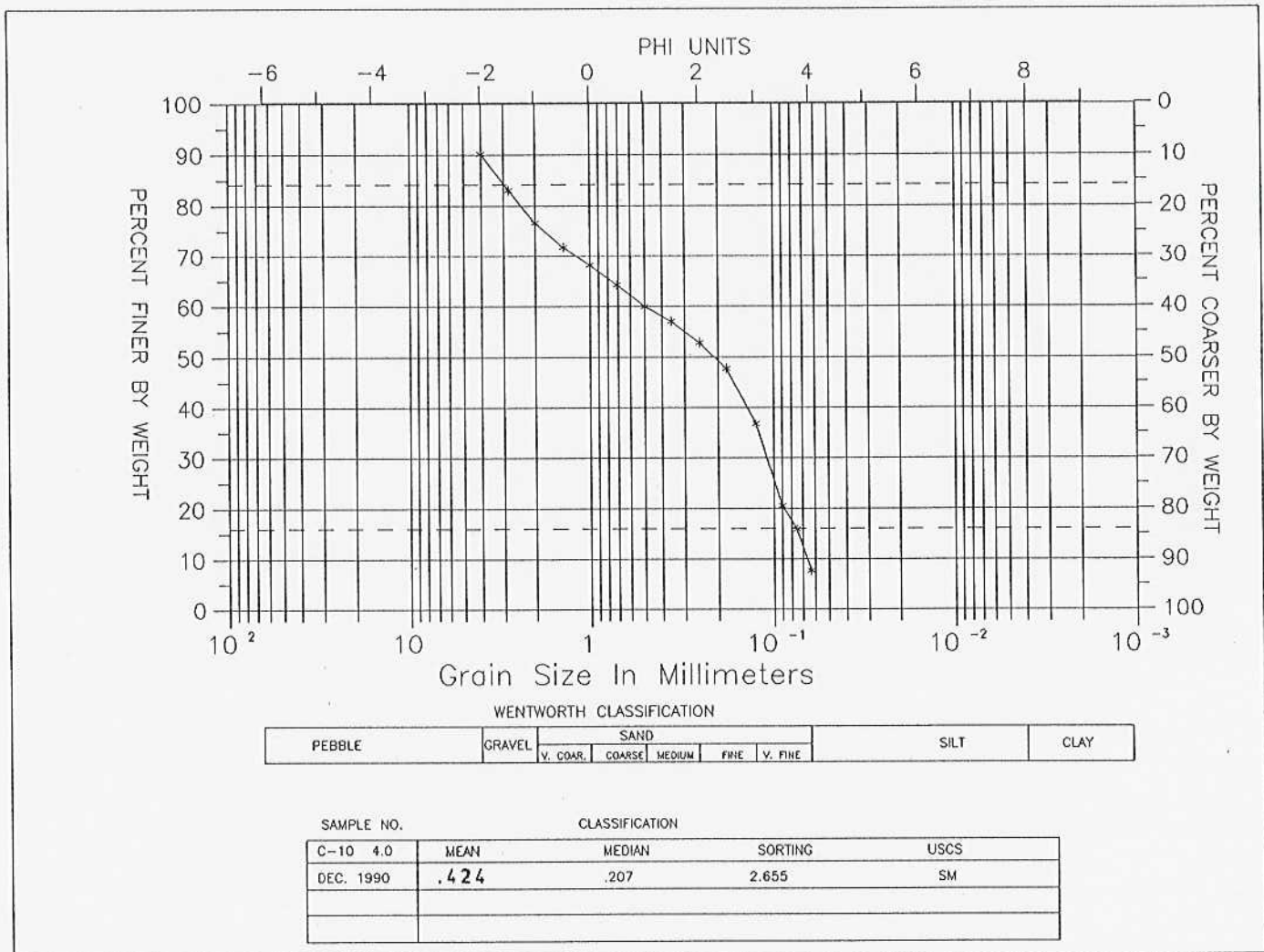
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	19.90	9.86	90.14
7	-1.5	2.800	34.20	16.94	83.06
10	-1.0	2.000	47.20	23.38	76.62
14	-0.5	1.400	57.00	28.23	71.77
18	0.0	1.000	64.30	31.85	68.15
25	0.5	.710	72.30	35.81	64.19
35	1.0	.500	80.90	40.07	59.93
45	1.5	.355	86.80	42.99	57.01
60	2.0	.250	95.30	47.20	52.80
80	2.5	.180	105.60	52.30	47.70
120	3.0	.125	127.70	63.28	36.72
170	3.5	.090	160.60	79.54	20.46
200	3.75	.075	169.80	84.10	15.90
230	4.0	.063	186.30	92.27	7.73
PAN			201.90	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.424
MEDIAN (mm):	.207	SORTING:	2.655
SILT/CLAY:	15.90%	KURTOSIS:	.628
SKEWNESS:	-2.808		

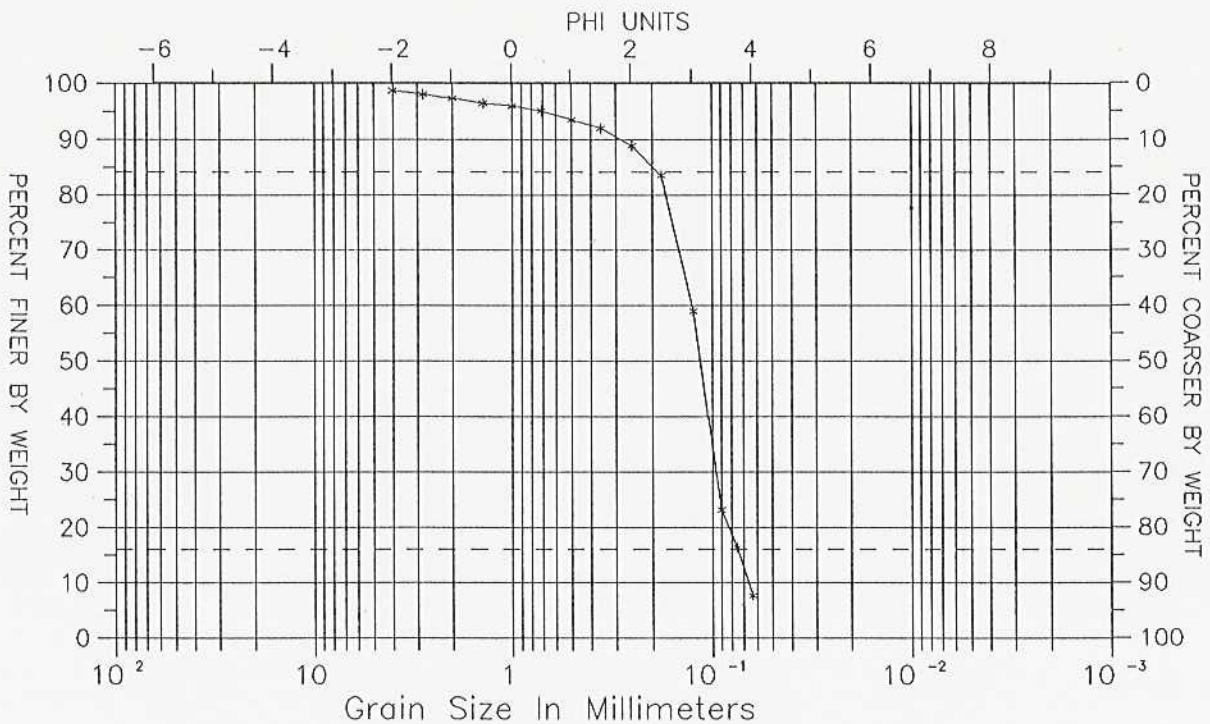
PHI(5): -2.34	PHI(16): -1.57	PHI(25): -.83
PHI(50): 2.27	PHI(75): 3.36	PHI(84): 3.74
PHI(95): 4.08		

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:CIC10.TAB

CAPTIVA ISLAND
SAND SEARCH, PHASE 2
GRAIN SIZE DISTRIBUTION CURVE
CORE SAMPLE



CAPTIVA ISLAND
SAND SEARCH, PHASE 2
GRAIN SIZE DISTRIBUTION CURVE
CORE SAMPLE



WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	SAND					SILT	CLAY
		V. COAR.	COARSE	MEDIUM	FINE	V. FINE		

SAMPLE NO.

CLASSIFICATION

C-10	1.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.145	.115	.653	SM