

## VIBRACORE LOG

Project: CAPTIVA ISLAND, PHASE II Core No: C-17

Coordinates:

N = 793140E = 429486Date: 11-29-90Start Time 1550End Time       Water Depth 23 NGVDDriller RODNEY MEYERClient Rep. JEFF L. ANDREWS

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-23	0		GREY, SILTY FINE QUARTZ SAND w/ SHELL HASH & FRAG.	(1) 2.0 (25)	SM
Length of Barrel <u>20'</u>						
Penetration Depth <u>10.3'</u>						
Length Recovered <u>7.4'</u>						
Length Retained <u>7.4'</u>						
Remarks:						
SOLID CORAL PACKED IN BIT.						
Support Vessel <u>DANIELLE MARIE</u>		5		(DARK BROWN SILTY FINE QUARTZ w/ SHELL HASH)		
Positioning System <u>TRISPANDER</u>		5.3				
Positioning Remarks:		6.6		DARK GREY SILTY SAND w/ CONSOLIDATED SHELL ROCK		
	-30.4	7.4				
		10				
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>NE</u>		15				
Est. Speed: <u>N/A</u>						
Analysis By: <u>KEN JACKSON</u>						
Date: <u>DEC. 20-27, 1990</u>						
Analysis Method:						
<u>VISUAL LOG</u>						
<u>MECHANICAL SIEVE</u>		20				

GRADATION ANALYSIS REPORT  
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KDJ      DN: DEC.1990

SAMPLE NO.: C-17  
SAMPLE ELEV. (FT. NGVD): -25.0  
SAMPLE DEPTH (FT.): 2.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 214.10  
SAMPLE WEIGHT AFTER WASH (GRAMS): 182.40

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	22.10	10.32	89.68
7	-1.5	2.800	32.20	15.04	84.96
10	-1.0	2.000	43.50	20.32	79.68
14	-0.5	1.400	51.70	24.15	75.85
18	0.0	1.000	57.50	26.86	73.14
25	0.5	.710	62.70	29.29	70.71
35	1.0	.500	67.60	31.57	68.43
45	1.5	.355	71.00	33.16	66.84
60	2.0	.250	76.00	35.50	64.50
80	2.5	.180	83.60	39.05	60.95
120	3.0	.125	122.50	57.22	42.78
170	3.5	.090	172.70	80.66	19.34
200	3.75	.075	180.90	84.49	15.51
230	4.0	.063	197.95	92.46	7.54
PAN			214.10	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.399
MEDIAN (mm):	.143	SORTING:	2.563
SILT/CLAY:	15.51%	KURTOSIS:	.732
SKEWNESS:	-4.067		

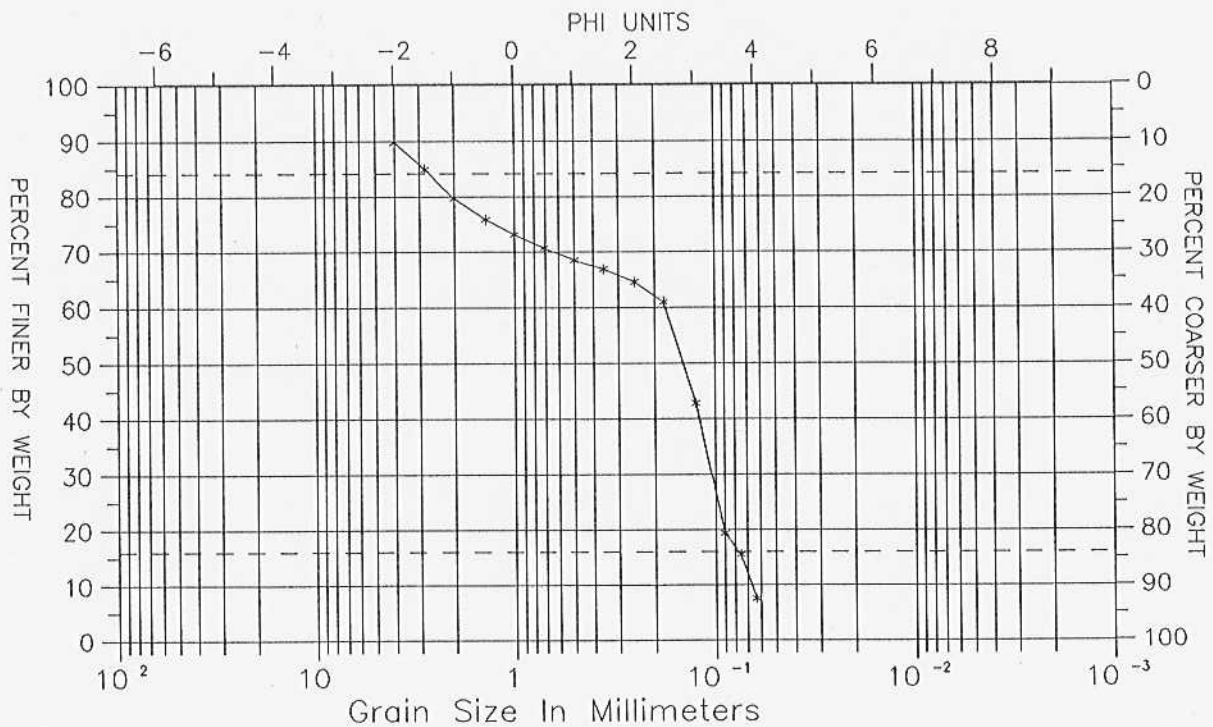
PHI(5): -2.56	PHI(16): -1.41	PHI(25): -.34
PHI(50): 2.80	PHI(75): 3.38	PHI(84): 3.72
PHI(95): 4.08		

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

DATA FILE NAME: A:CIC17.TAB

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

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-17	2.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.399	.143	2.563	SM