

## VIBRACORE LOG

Project: CAPTIVA ISLAND, PHASE II Core No: C-25

Coordinates:

N = 804172E = 430291Date: 11-29-90Start Time 1717End Time       Water Depth 12 NGVDDriller RODNEY MEYERClient Rep. JEFF L. ANDREWS

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-12	0		LIGHT GREY MED. FINE QUARTZ SAND	(1) 2.5 (-145)	SP
Length of Barrel <u>20'</u>						
Penetration Depth <u>12'</u>						
Length Recovered <u>11.9'</u>						
Length Retained <u>11.9'</u>						
Remarks: LARGE CORAL FRAG. IN BIT. NO SAMPLE KEPT.		3.7		GREY MED-FINE QUARTZ SAND W/SHELL HASH		
		5		GREY, SILTY, FINE QUARTZ SAND W/SHELL HASH	(2) 6.0 (-18)	SP-SM
Support Vessel <u>DANIELLE MARIE</u>						
Positioning System <u>TRISPOUNDER</u>						
Positioning Remarks:		7.5		DARK GREY, SILTY, QUARTZ SAND W/ SHELL HASH		
		10				
Weather <u>CLEAR</u>						
Wind						
Dir: <u>ESE</u>						
Est. Speed <u>5-10 KTS</u>	-23.9	11.9				
Waves						
Dir: <u>SOUTH</u>						
Height <u>1'-1 1/2' CALM</u>						
Current						
Dir: <u>SOUTH</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: KCJ      ON: DEC.1990

SAMPLE NO.: C-25  
SAMPLE ELEV. (FT. NGVD): -14.5  
SAMPLE DEPTH (FT.): 2.5  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 305.20  
SAMPLE WEIGHT AFTER WASH (GRAMS): 297.50

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	4.60	1.51	98.49
7	-1.5	2.800	6.10	2.00	98.00
10	-1.0	2.000	8.30	2.72	97.28
14	-0.5	1.400	11.20	3.67	96.33
18	0.0	1.000	14.70	4.82	95.18
25	0.5	.710	19.60	6.42	93.58
35	1.0	.500	25.70	8.42	91.58
45	1.5	.355	30.00	9.83	90.17
60	2.0	.250	40.10	13.14	86.86
80	2.5	.180	79.80	26.15	73.85
120	3.0	.125	251.10	82.27	17.73
170	3.5	.090	293.80	96.26	3.74
200	3.75	.075	296.60	97.18	2.82
230	4.0	.063	301.15	98.67	1.33
PAN			305.20	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.206
MEDIAN (mm):	.153	SORTING:	.476
SILT/CLAY:	2.82%	KURTOSIS:	2.905
SKEWNESS:	-1.913		

PHI(5):	.06	PHI(16):	2.11	PHI(25):	2.46
PHI(50):	2.71	PHI(75):	2.94	PHI(84):	3.06
PHI(95):	3.45				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: A:CIC25.TAB

GRADATION ANALYSIS REPORT  
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ      ON: DEC.1990

SAMPLE NO.: C-25  
SAMPLE ELEV. (FT. NGVD): -18  
SAMPLE DEPTH (FT.): 6.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 295.10  
SAMPLE WEIGHT AFTER WASH (GRAMS): 265.80

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	.00	.00	100.00
7	-1.5	2.800	4.40	1.49	98.51
10	-1.0	2.000	5.90	2.00	98.00
14	-0.5	1.400	7.50	2.54	97.46
18	0.0	1.000	8.70	2.95	97.05
25	0.5	.710	10.10	3.42	96.58
35	1.0	.500	11.90	4.03	95.97
45	1.5	.355	13.40	4.54	95.46
60	2.0	.250	16.80	5.69	94.31
80	2.5	.180	51.30	17.38	82.62
120	3.0	.125	212.60	72.04	27.96
170	3.5	.090	255.90	86.72	13.28
200	3.75	.075	262.90	89.09	10.91
230	4.0	.063	279.25	94.63	5.37
PAN			295.00	99.97	.03

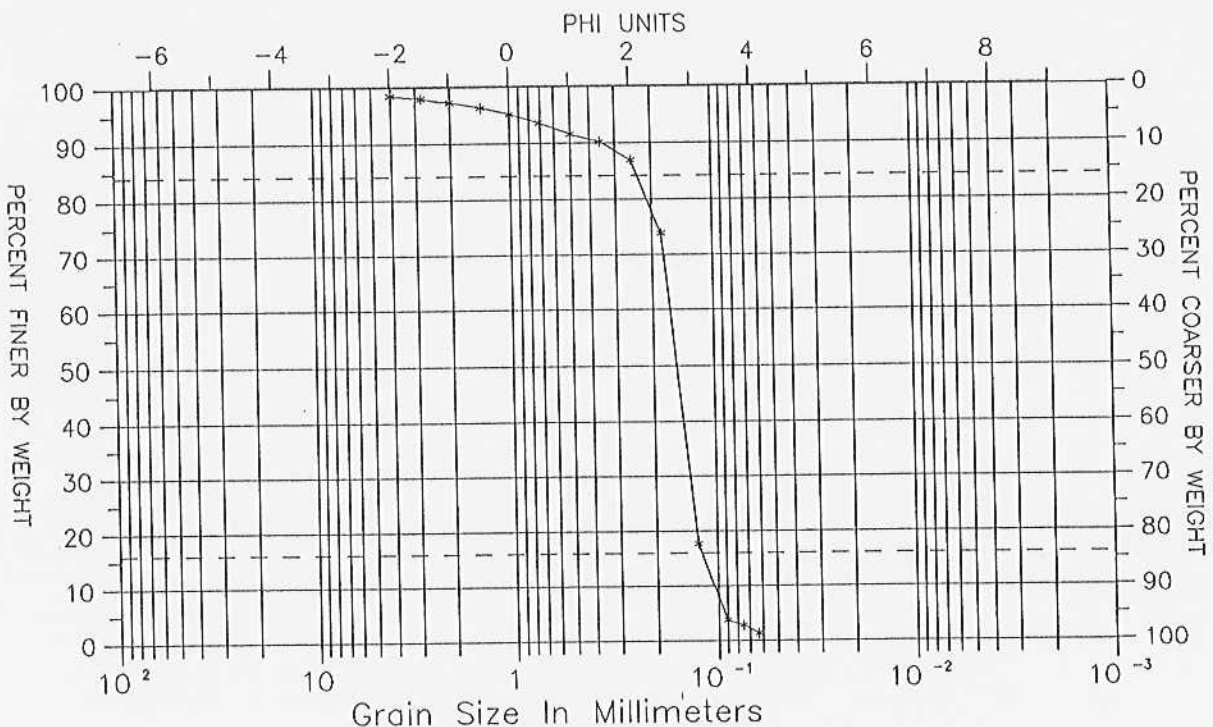
SIEVE LOSS(g):	.10	MEAN (mm):	.137
MEDIAN (mm):	.144	SORTING:	.483
SILT/CLAY:	10.91%	KURTOSIS:	1.788
SKEWNESS:	.119		

PHI(5):	1.70	PHI(16):	2.44	PHI(25):	2.57
PHI(50):	2.80	PHI(75):	3.10	PHI(84):	3.41
PHI(95):	4.02				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: A:CIC25B.TAB



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



WENTWORTH CLASSIFICATION

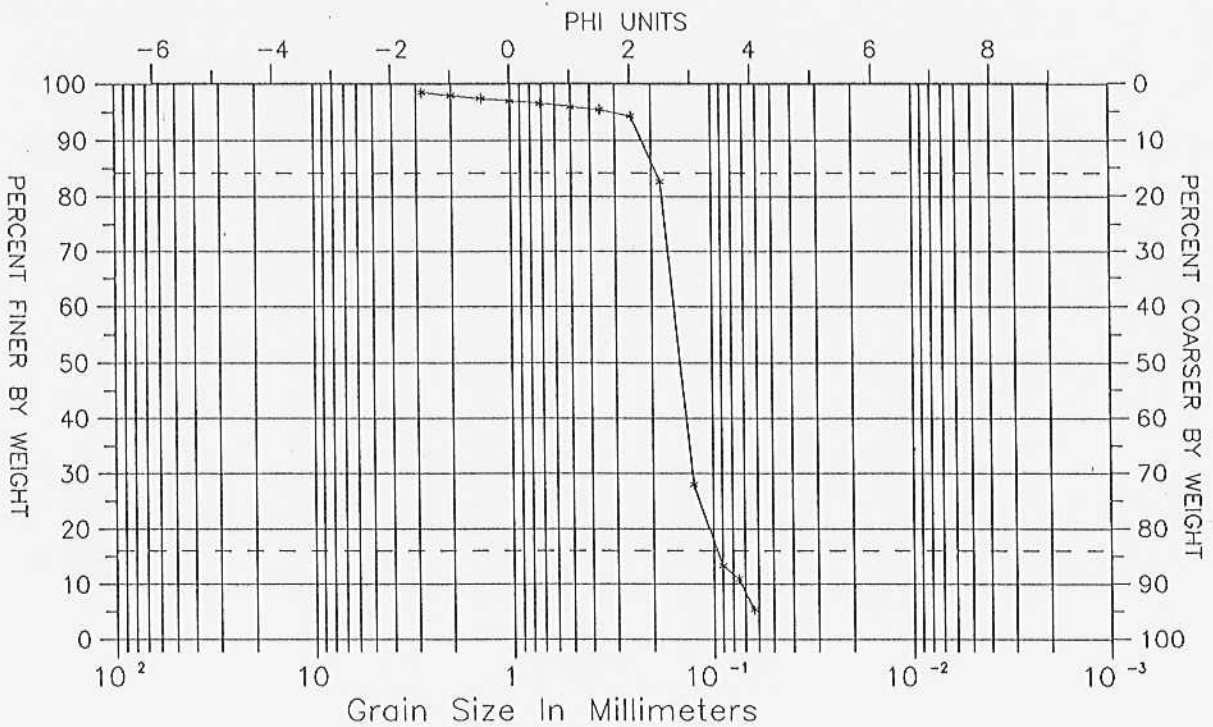
PEBBLE	GRAVEL	SAND					SILT	CLAY
		V. COAR.	COARSE	MEDIUM	FINE	V. FINE		

SAMPLE NO.

CLASSIFICATION

C-25	2.5	MEAN	MEDIAN	SORTING	USCS
DEC.	1990	.206	.153	.476	SP

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



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

SAMPLE NO.		CLASSIFICATION			
C-25	6.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.137	.144	.483	SP-SM