

## VIBRACORE LOG

Project: CAPTIVA ISLAND, PHASE II Core No: C-34

Coordinates:

N = 787942E = 429816Date: 12-3-90Start Time 1521

End Time \_\_\_\_\_

Water Depth 24 NGVDDriller RODNEY MEYERClient Rep. JEFF L. ANDREWS

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-24	0		LIGHT GREY FINE QUARTZ SAND	(1)	SM
Length of Barrel <u>20'</u>		1.7		W/SOME SHELL HASH	1.0 (-25)	
Penetration Depth <u>9.5'</u>				GREY FINE SILTY QUARTZ SAND		
Length Recovered <u>7.4'</u>		5		W/SHELL HASH FRAGMENTS	(2) 5.0 (-29)	SM
Length Retained <u>7.4'</u>		5.5		GREY SILT w/ CONSOLIDATED SHELL ROCK		
Remarks:		5.9		WHITE, LIMY, CONSOLIDATED SHELL ROCK		
WHITE CONSOLIDATED SHELL ROCK IN BIT.	-31.4	7.4				
Support Vessel <u>DANIELLE MARIE</u>		10				
Positioning System <u>TRISPONDER</u>						
Positioning Remarks:		15				
Weather <u>CLEAR</u>		20				
Wind						
Dir: <u>SE</u>						
Est. Speed <u>10-15 KTS</u>						
Waves						
Dir: <u>NW</u>						
Height <u>1'-2' CHOP</u>						
Current						
Dir: <u>SOUTH</u>						
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>						

GRADATION ANALYSIS REPORT  
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ      ON: DEC.1990

SAMPLE NO.: C-34  
SAMPLE ELEV. (FT. NGVD): -25.0  
SAMPLE DEPTH (FT.): 1.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 202.60  
SAMPLE WEIGHT AFTER WASH (GRAMS): 171.00

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	.85	.42	99.58
10	-1.0	2.000	1.30	.64	99.36
14	-0.5	1.400	2.40	1.18	98.82
18	0.0	1.000	3.50	1.73	98.27
25	0.5	.710	5.40	2.67	97.33
35	1.0	.500	8.30	4.10	95.90
45	1.5	.355	11.10	5.48	94.52
60	2.0	.250	15.30	7.55	92.45
80	2.5	.180	25.70	12.69	87.31
120	3.0	.125	98.20	48.47	51.53
170	3.5	.090	154.10	76.06	23.94
200	3.75	.075	165.00	81.44	18.56
230	4.0	.063	184.80	91.21	8.79
PAN			202.50	99.95	.05

SIEVE LOSS(g):	.10	
MEDIAN (mm):	.123	MEAN (mm): .128
SILT/CLAY:	18.56%	SORTING: .635
SKEWNESS:	-.632	KURTOSIS: 1.404

PHI(5): 1.33	PHI(16): 2.55	PHI(25): 2.67
PHI(50): 3.03	PHI(75): 3.48	PHI(84): 3.82
PHI(95): 4.10		

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: A:C341.TAB

GRADATION ANALYSIS REPORT  
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KCJ      ON: DEC.1990

SAMPLE NO.: C-34  
SAMPLE ELEV. (FT. NGVD): -29  
SAMPLE DEPTH (FT.): 5.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 285.00  
SAMPLE WEIGHT AFTER WASH (GRAMS): 253.40

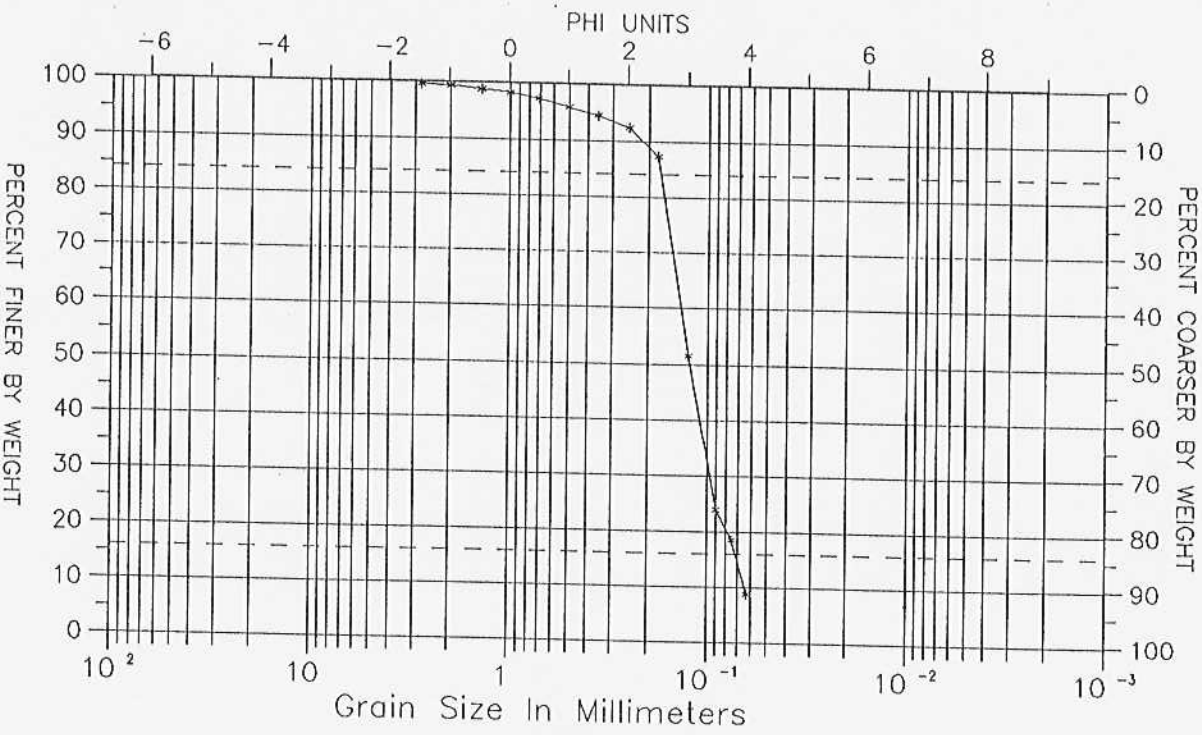
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	32.80	11.51	88.49
7	-1.5	2.800	52.30	18.35	81.65
10	-1.0	2.000	70.30	24.67	75.33
14	-0.5	1.400	83.20	29.19	70.81
18	0.0	1.000	93.90	32.95	67.05
25	0.5	.710	104.10	36.53	63.47
35	1.0	.500	114.10	40.04	59.96
45	1.5	.355	121.80	42.74	57.26
60	2.0	.250	134.30	47.12	52.88
80	2.5	.180	152.00	53.33	46.67
120	3.0	.125	192.00	67.37	32.63
170	3.5	.090	233.60	81.96	18.04
200	3.75	.075	246.60	86.53	13.47
230	4.0	.063	267.60	93.89	6.11
PAN			283.80	99.58	.42

SIEVE LOSS(g):	1.20		
MEDIAN (mm):	.213	MEAN (mm):	.452
SILT/CLAY:	13.47%	SORTING:	2.642
SKEWNESS:	-2.901	KURTOSIS:	.632

PHI(5): -2.48	PHI(16): -1.67	PHI(25): -.96
PHI(50): 2.23	PHI(75): 3.26	PHI(84): 3.61
PHI(95): 4.04		

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: A:CIC345.TAB



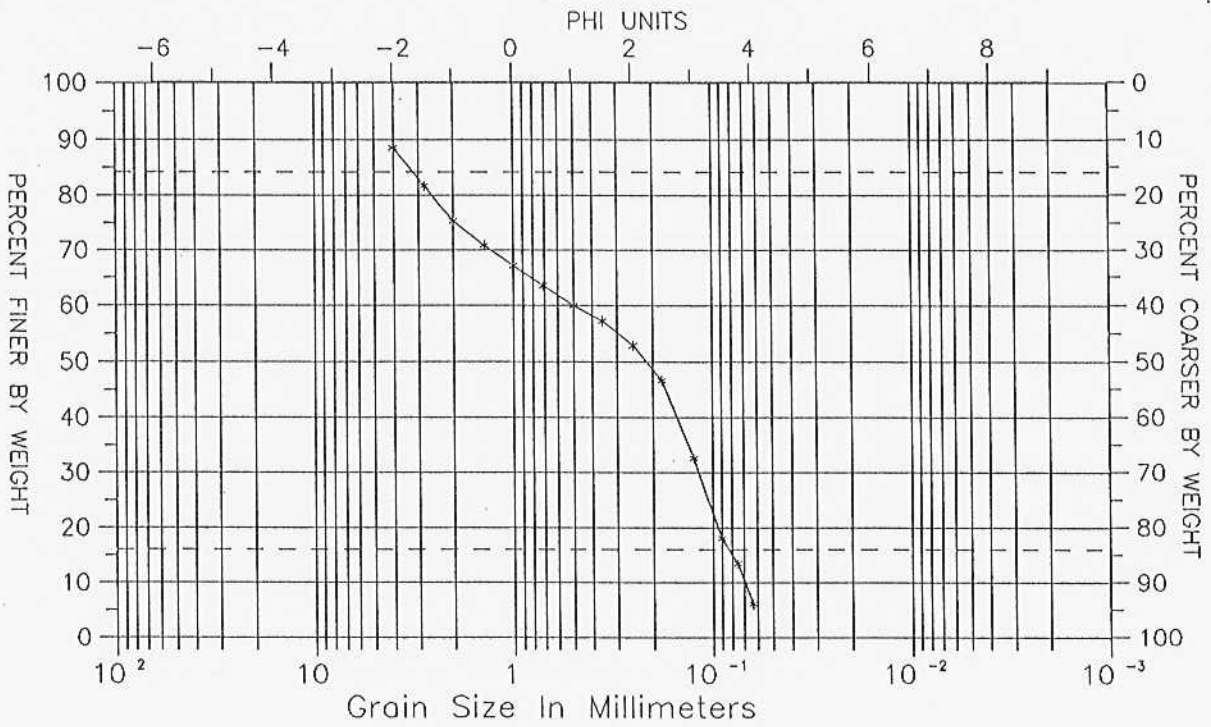


WENTWORTH CLASSIFICATION							
PEBBLE	GRAVEL	SAND					SILT
		V. COAR.	COARSE	MEDIUM	FINE	V. FINE	
							CLAY

SAMPLE NO.		CLASSIFICATION			
C-34	1.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.128	.123	.635	SM

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-34	5.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.452	.213	2.642	SM