

VIBRACORE LOG

Project: <u>CAPTIVA ISLAND, PHASE II</u>		Core No: <u>C-21</u>	
Coordinates:	Date: <u>11-29-90</u>	Water Depth <u>20</u>	NGVD
N = <u>798634</u>	Start Time <u>1647</u>	Driller <u>RODNEY MEYER</u>	
E = <u>431550</u>	End Time _____	Client Rep. <u>JEFF L. ANDREWS</u>	

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-20	0				
Length of Barrel <u>20'</u>				GREY, VERY SILTY, FINE QUARTZ SAND w/SHELL HASH AND FRAGMENTS		
Penetration Depth <u>20'</u>						
Length Recovered <u>16.4'</u>						
Length Retained <u>16.4'</u>						
Remarks: SHELL FRAGMENTS AND SAND IN BIT. NO SAMPLE KEPT.		5				
Support Vessel <u>DANIELLE MARIE</u>		6.3		DARK BROWN (ORGANIC) SILTY FINE SAND, QUARTZ, w/SHELL HASH	(1) 6.0 (-26)	SM
Positioning System <u>TRISPOUNDER</u>		8.4				
Positioning Remarks:		10		LIGHT BROWN VERY SILTY FINE QUARTZ SAND w/SOME SHELL HASH	(2) 9.0 (-29)	SM
Weather <u>CLEAR</u>		12.0		WHITE CONSOLIDATED LIMESTONE w/ SHELL FRAG.		
Wind _____		13.5		LIGHT GREY CONSOLIDATED LIMESTONE - SHELL ROCK & SHELL FRAG.		
Dir: <u>ESE</u>		15				
Est. Speed <u>5-10 KTS.</u>		16.4				
Waves _____						
Dir: <u>SOUTH</u>						
Height <u>1'-1 1/2 CALM</u>						
Current _____						
Dir: <u>SOUTH</u>						
Est. Speed: <u>N/A</u>						
Analysis By: <u>KEN JACKSON</u>	-36.4	20				
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-21
SAMPLE ELEV. (FT. NGVD): -26
SAMPLE DEPTH (FT.): 6.0
SAMPLE TYPE:

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 219.10
SAMPLE WEIGHT AFTER WASH (GRAMS): 193.30

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	11.20	5.11	94.89
7	-1.5	2.800	16.50	7.53	92.47
10	-1.0	2.000	22.70	10.36	89.64
14	-0.5	1.400	28.70	13.10	86.90
18	0.0	1.000	33.40	15.24	84.76
25	0.5	.710	37.10	16.93	83.07
35	1.0	.500	40.20	18.35	81.65
45	1.5	.355	42.15	19.24	80.76
60	2.0	.250	45.50	20.77	79.23
80	2.5	.180	52.35	23.89	76.11
120	3.0	.125	103.40	47.19	52.81
170	3.5	.090	172.80	78.87	21.13
200	3.75	.075	188.40	85.99	14.01
230	4.0	.063	205.30	93.70	6.30
PAN			219.10	100.00	.00

SIEVE LOSS(g): .00
MEDIAN (mm): .121
SILT/CLAY: 14.01%
SKEWNESS: -4.070
MEAN (mm): .288
SORTING: 1.728
KURTOSIS: 2.716

PHI(5): -2.02 PHI(16): .22 PHI(25): 2.52
PHI(50): 3.04 PHI(75): 3.44 PHI(84): 3.68
PHI(95): 4.04

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:CIC21.TAB

GRADATION ANALYSIS REPORT
CAPTIVA ISLAND, SAND SEARCH, S401.65

TESTED BY: KCJ DN: DEC.1990

SAMPLE NO.: C-21
SAMPLE ELEV. (FT. NGVD): -29
SAMPLE DEPTH (FT.): 9.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 320.10
SAMPLE WEIGHT AFTER WASH (GRAMS): 80.90

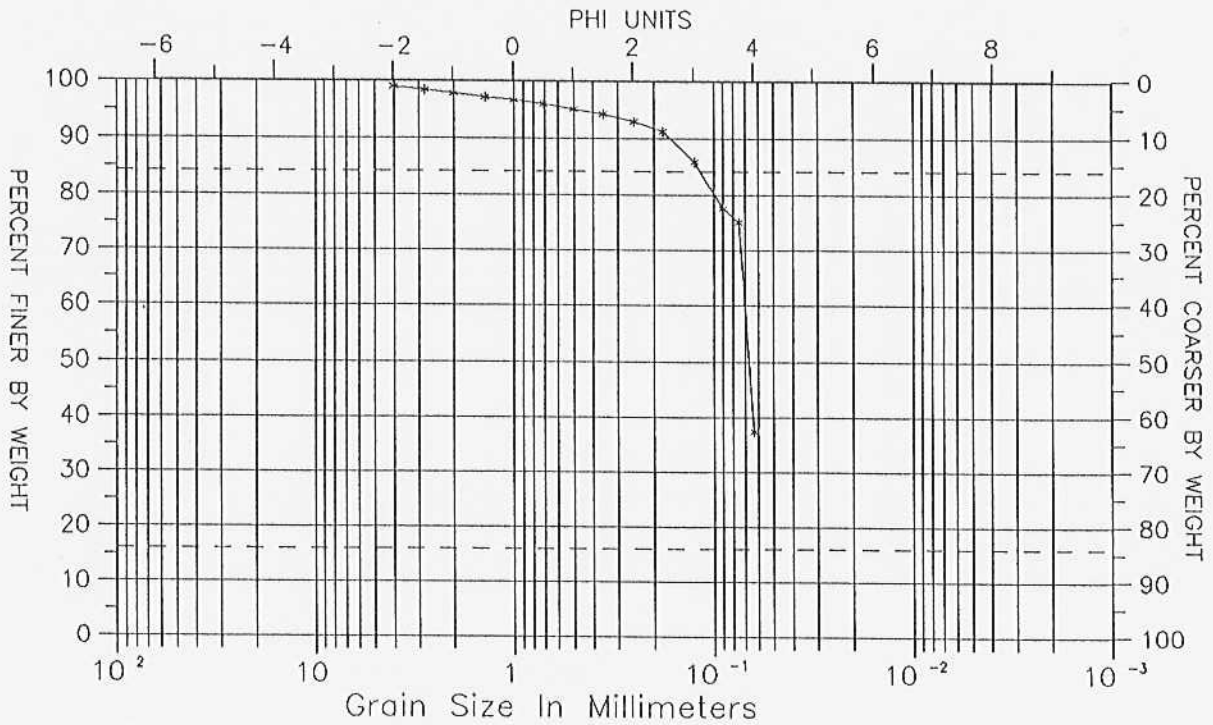
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	3.30	1.03	98.97
7	-1.5	2.800	5.10	1.59	98.41
10	-1.0	2.000	6.90	2.16	97.84
14	-0.5	1.400	9.00	2.81	97.19
18	0.0	1.000	10.70	3.34	96.66
25	0.5	.710	12.80	4.00	96.00
35	1.0	.500	15.70	4.90	95.10
45	1.5	.355	18.30	5.72	94.28
60	2.0	.250	22.50	7.03	92.97
80	2.5	.180	28.00	8.75	91.25
120	3.0	.125	45.30	14.15	85.85
170	3.5	.090	71.70	22.40	77.60
200	3.75	.075	79.80	24.93	75.07
230	4.0	.063	200.30	62.57	37.43
PAN			320.10	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.102
MEDIAN (mm):	.066	SORTING:	.515
SILT/CLAY:	75.07%	KURTOSIS:	3.896
SKEWNESS:	-2.559		

PHI(5):	1.06	PHI(16):	3.11	PHI(25):	3.75
PHI(50):	3.92	PHI(75):	4.08	PHI(84):	4.14
PHI(95):	4.22				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:CIC2190.TAB

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



WENTWORTH CLASSIFICATION

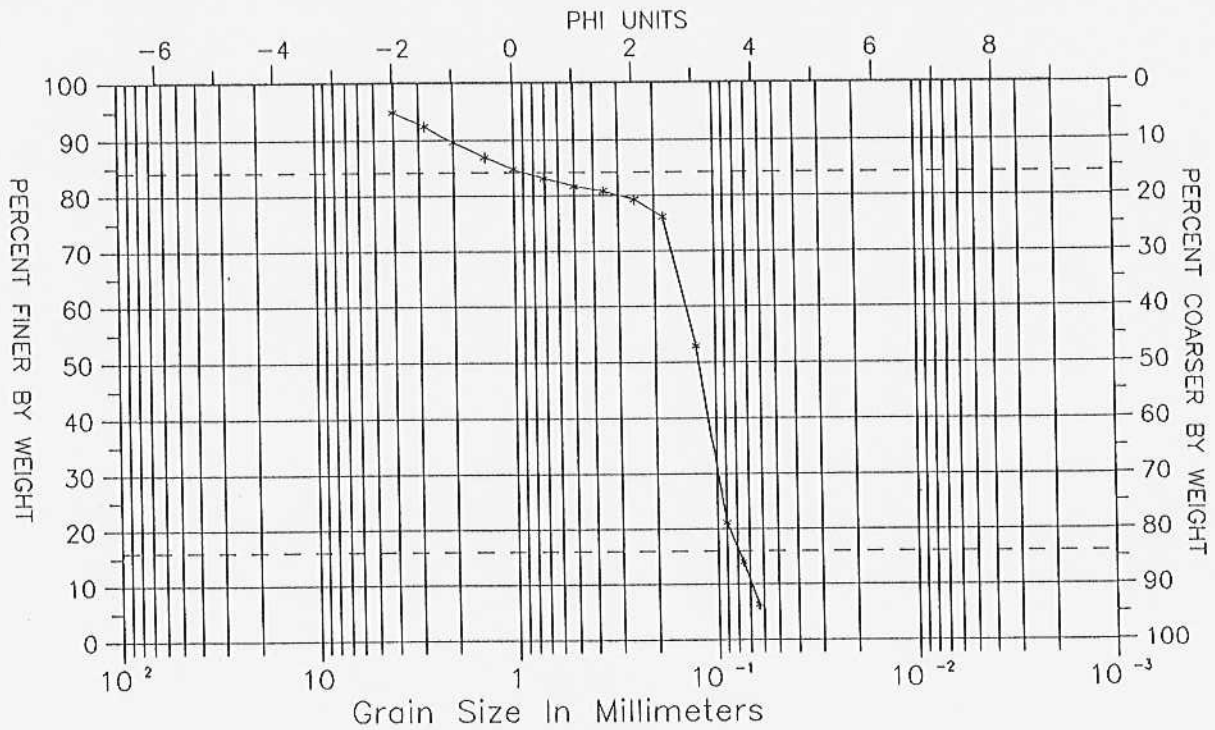
PEBBLE	GRAVEL	SAND					SILT	CLAY
		V. COAR.	COARSE	MEDIUM	FINE	V. FINE		

SAMPLE NO.

CLASSIFICATION

C-21	9.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.102	.066	.515	SM

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



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

SAMPLE NO.		CLASSIFICATION			
C-21	6.0	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.288	.121	1.728	SM