

## VIBRACORE LOG

Project: CAPTIVA ISLAND, PHASE IICore No: C-35

Coordinates:

N = 788544.1E = 428571.0Date: 12-4-90Start Time 1339

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

Water Depth 245 NGVDDriller RODNEY MEYERClient Rep. JEFF L. ANDREWS

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3"</u>	-24.5	0		LIGHT GREY FINE SAND W/SOME SHELL HASH	(1) 1.0 (-255)	SM
Length of Barrel <u>20'</u>		2.3		GREY SILTY FINE QUARTZ SAND W/ SHELL HASH AND SMALL FRAGMENTS (1/2" MAX)	(2) 3.5 (-28)	SM
Penetration Depth <u>8.5'</u>		5		WHITE, LIMY, CONSOLIDATED SHELLROCK		
Length Recovered <u>7.1'</u>		5.3				
Length Retained <u>7.1'</u>		7.1				
Remarks: WHITE, CONSOLIDATED SHELLROCK IN BIT.		10				
Support Vessel <u>DANIELLE MARIE</u>		15				
Positioning System <u>TRISPANDER</u>		20				
Positioning Remarks:						
Weather <u>CLEAR</u>						
Wind						
Dir: <u>SE</u>						
Est. Speed <u>0-5 KTS</u>						
Waves						
Dir: <u>NW</u>						
Height <u>1'-2'</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-35  
SAMPLE ELEV. (FT. NGVD): -25.5  
SAMPLE DEPTH (FT.): 1.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 220.50  
SAMPLE WEIGHT AFTER WASH (GRAMS): 198.40

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	1.80	.82	99.18
7	-1.5	2.800	4.00	1.81	98.19
10	-1.0	2.000	7.10	3.22	96.78
14	-0.5	1.400	9.90	4.49	95.51
18	0.0	1.000	12.30	5.58	94.42
25	0.5	.710	15.80	7.17	92.83
35	1.0	.500	20.20	9.16	90.84
45	1.5	.355	23.60	10.70	89.30
60	2.0	.250	29.80	13.51	86.49
80	2.5	.180	45.00	20.41	79.59
120	3.0	.125	123.30	55.92	44.08
170	3.5	.090	180.50	81.86	18.14
200	3.75	.075	192.20	87.17	12.83
230	4.0	.063	207.75	94.22	5.78
PAN			220.50	100.00	.00

SIEVE LOSS(g):	.00	MEAN (mm):	.178
MEDIAN (mm):	.132	SORTING:	.710
SILT/CLAY:	12.83%	KURTOSIS:	2.191
SKEWNESS:	-2.071		

PHI(5):	-.27	PHI(16):	2.18	PHI(25):	2.56
PHI(50):	2.92	PHI(75):	3.37	PHI(84):	3.60
PHI(95):	4.03				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: A:CIC351.TAB

GRADATION ANALYSIS REPORT  
CAPTIVA ISLAND, SAND SEARCH, 8401.65

TESTED BY: KDJ      ON: DEC.1990

SAMPLE NO.: C-35  
SAMPLE ELEV. (FT. NGVD): -27.5  
SAMPLE DEPTH (FT.): 3.5  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

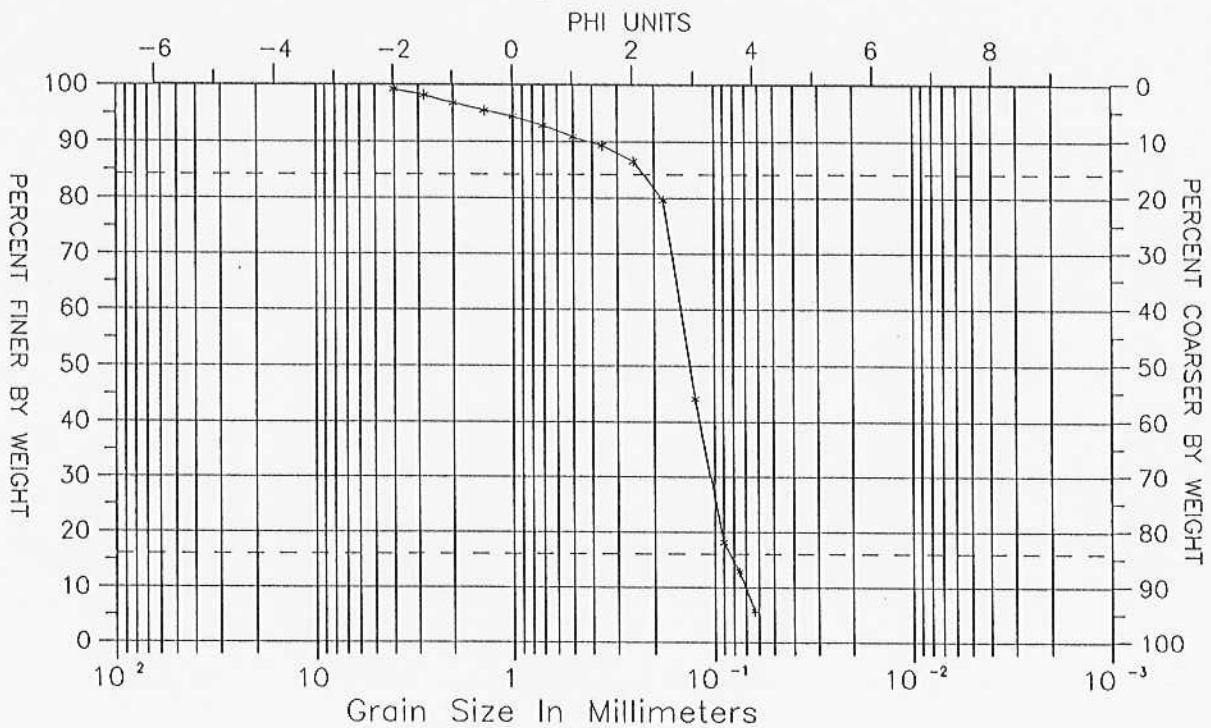
DRY SAMPLE WEIGHT (GRAMS): 289.40  
SAMPLE WEIGHT AFTER WASH (GRAMS): 250.10

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5	-2.0	4.000	30.30	10.47	89.53
7	-1.5	2.800	56.80	19.63	80.37
10	-1.0	2.000	86.20	29.79	70.21
14	-0.5	1.400	106.70	36.87	63.13
18	0.0	1.000	121.50	41.98	58.02
25	0.5	.710	135.50	46.82	53.18
35	1.0	.500	148.80	51.42	48.58
45	1.5	.355	157.30	54.35	45.65
60	2.0	.250	168.90	58.36	41.64
80	2.5	.180	182.60	63.10	36.90
120	3.0	.125	207.00	71.53	28.47
170	3.5	.090	236.80	81.82	18.18
200	3.75	.075	245.80	84.93	15.07
230	4.0	.063	268.75	92.86	7.14
PAN			289.40	100.00	.00
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SIEVE LOSS(g):		.00			
MEDIAN (mm):		.556	MEAN (mm): .529		
SILT/CLAY:		15.07%	SORTING: 2.686		
SKEWNESS:		.077	KURTOSIS: .592		
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PHI(5): -2.30		PHI(16): -1.70		PHI(25): -1.24	
PHI(50): .85		PHI(75): 3.17		PHI(84): 3.67	
PHI(95): 4.07					

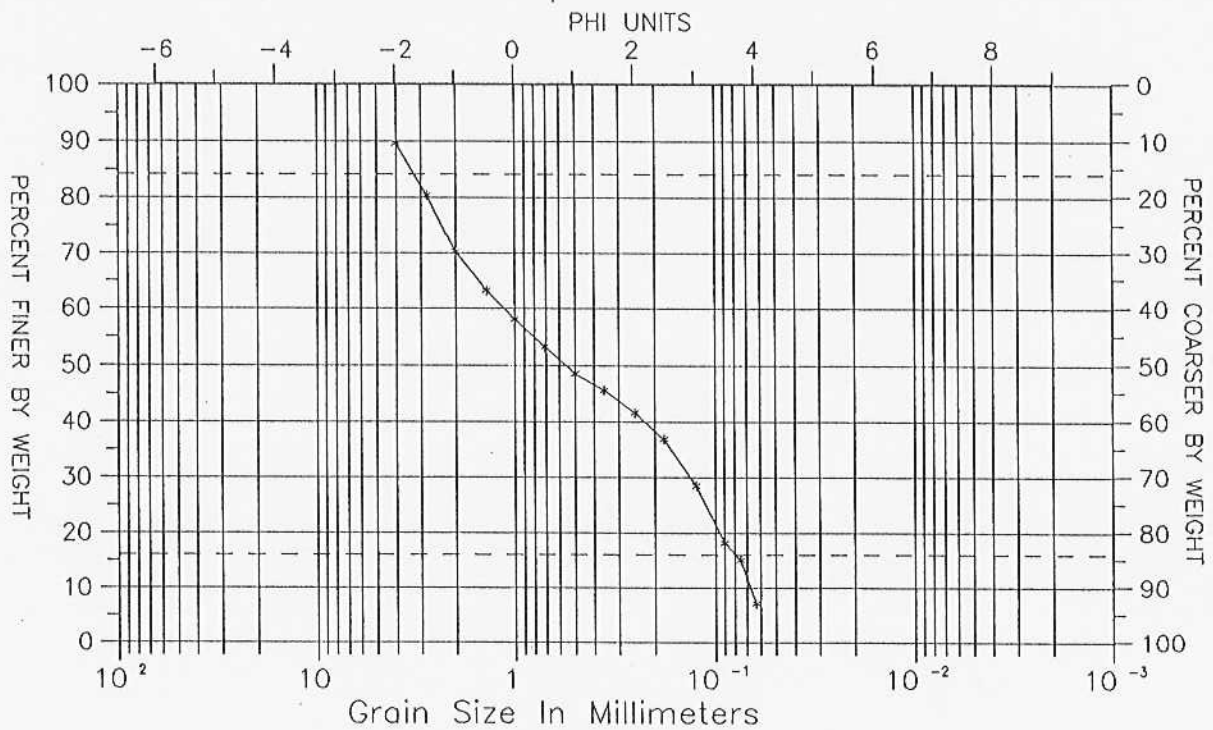
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
DATA FILE NAME: A:3535.TAB



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-35	3.5	MEAN	MEDIAN	SORTING	USCS
DEC. 1990		.529	.556	2.686	SM