

VIBRACORE LOG

| | | | |
|--|------------------------|------------------------------------|--|
| Project: <u>CAPTIVA ISLAND, PHASE II</u> | | Core No: <u>C-7</u> | |
| Coordinates: | Date: <u>11/29/90</u> | Water Depth <u>21</u> NGVD | |
| N = <u>783216.</u> | Start Time <u>1209</u> | Driller <u>RODNEY MEYER</u> | |
| E = <u>434586.</u> | End Time _____ | Client Rep. <u>JEFF L. ANDREWS</u> | |

| | Elev. | Depth | Legend | Description | Samp. No. | Remarks |
|---|-------|-------|--------|--|---------------------|---------|
| Core Diam. <u>3"</u> Length of Barrel <u>20'</u> Penetration Depth <u>9.5'</u> Length Recovered <u>7.2'</u> Length Retained <u>7.2'</u> Remarks: <u>GREY, SILTY, MATERIAL w/LARGE SHELL FRAG. IN. B.T. KEPT SAMPLE.</u> | -21' | 0 | | | | |
| Support Vessel <u>DANIELLE MARIE</u> Positioning System <u>TRISPOUNDER</u> Positioning Remarks: | -28.2 | 5 | | GREY, SILTY FINE SANDS w/SHELL FRAGMENTS AND HASH | (1) 2.0 (-23) | SM |
| | | 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>N.E.</u> Est. Speed: <u>N/A</u> | | 15 | | | | |
| | | 20 | | | | |
| 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-7
SAMPLE ELEV. (FT. NGVD): -23.0
SAMPLE DEPTH (FT.): 2.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SM

DRY SAMPLE WEIGHT (GRAMS): 270.80
SAMPLE WEIGHT AFTER WASH (GRAMS): 220.20

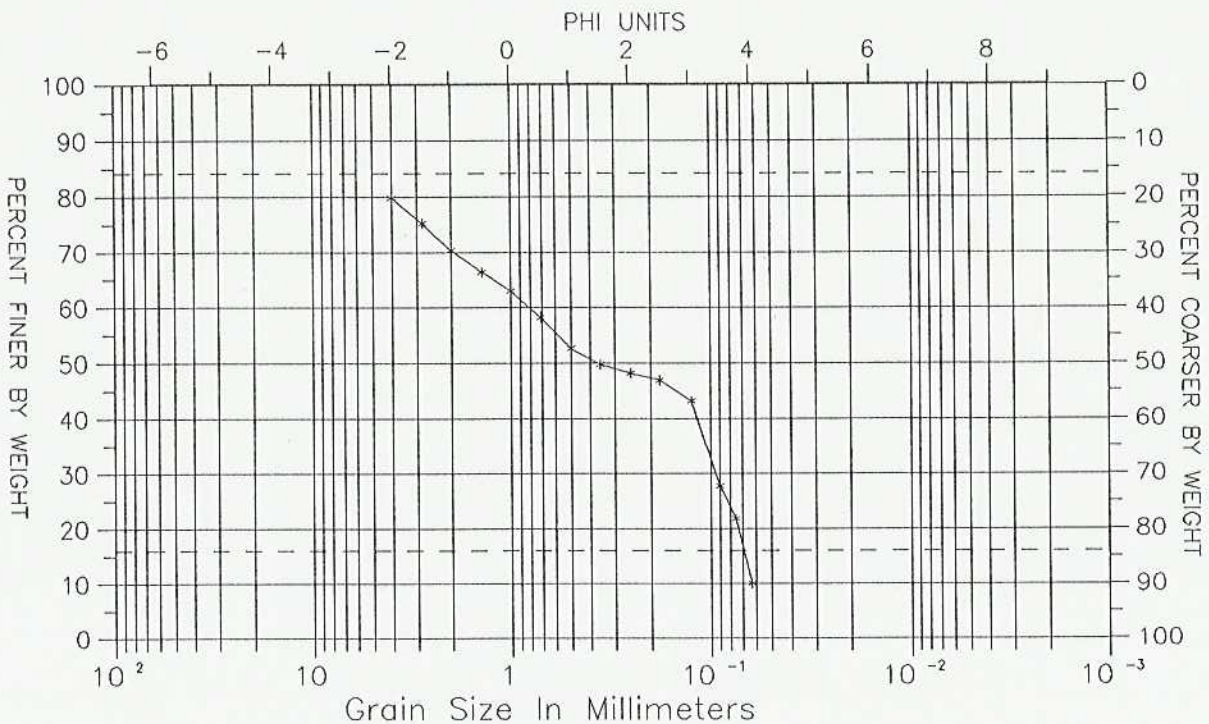
| SIEVE SIZE | PHI SIZE | MESH SIZE (mm) | RETAINED (GRAMS) | RETAINED (%) | PASSED (%) |
|---------------|-------------|-------------------|---------------------|-----------------|---------------|
| 5 | -2.0 | 4.000 | 54.70 | 20.20 | 79.80 |
| 7 | -1.5 | 2.800 | 67.00 | 24.74 | 75.26 |
| 10 | -1.0 | 2.000 | 80.20 | 29.62 | 70.38 |
| 14 | -0.5 | 1.400 | 91.20 | 33.68 | 66.32 |
| 18 | 0.0 | 1.000 | 100.50 | 37.11 | 62.89 |
| 25 | 0.5 | .710 | 113.30 | 41.84 | 58.16 |
| 35 | 1.0 | .500 | 128.50 | 47.45 | 52.55 |
| 45 | 1.5 | .355 | 136.10 | 50.26 | 49.74 |
| 60 | 2.0 | .250 | 140.40 | 51.85 | 48.15 |
| 80 | 2.5 | .180 | 143.80 | 53.10 | 46.90 |
| 120 | 3.0 | .125 | 154.00 | 56.87 | 43.13 |
| 170 | 3.5 | .090 | 195.70 | 72.27 | 27.73 |
| 200 | 3.75 | .075 | 211.90 | 78.25 | 21.75 |
| 230 | 4.0 | .063 | 243.50 | 89.92 | 10.08 |
| PAN | | | 270.80 | 100.00 | .00 |

| | | | |
|----------------|--------|------------|-------|
| SIEVE LOSS(g): | .00 | MEAN (mm): | .633 |
| MEDIAN (mm): | .365 | SORTING: | 3.168 |
| SILT/CLAY: | 21.75% | KURTOSIS: | .627 |
| SKEWNESS: | -2.472 | | |

| | | |
|---------------|----------------|----------------|
| PHI(5): -3.67 | PHI(16): -2.46 | PHI(25): -1.47 |
| PHI(50): 1.45 | PHI(75): 3.61 | PHI(84): 3.87 |
| PHI(95): 4.11 | | |

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: A:C72.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-7 | 2.0 | MEAN | MEDIAN | SORTING | USCS |
|-----------|-----|------|--------|---------|------|
| DEC. 1990 | | .633 | .365 | 3.168 | SM |
| | | | | | |
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