

JET PROBE LOG

PROJECT: Collier County

JET PROBE: CCJP-02-33

COORDINATES:

N = 635963

E = 370654

DATE: 12/19/02

START TIME: 1154

END TIME: 1200

WATER DEPTH: (RAW) 25.6 FT

TOP DIVER: JB

BOTTOM DIVER: ML

| NOTES | ELEV. | DEPTH | SYMBOL | DESCRIPTION |
|--|-----------------------|-------|--------|--------------------------------------|
| LENGTH OF PVC PIPE: 20.0' PENETRATION DEPTH: 4.0' JET PUMP TYPE: BRIGGS & STRATON 3.0 HP GAL/HR: 8460 DIAMETER OF PIPE: 1.5" | -25.6 | 0 | | SEA FLOOR |
| | | 1 | | Fine Sand trace Shell Hash |
| | -27.6 | 2 | | Sand with Shell Hash/Shell Fragments |
| | | 3 | | |
| SUPPORT VESSEL: CPE II POSITIONING: DIFFERENTIAL GPS USCG BEACON NAVIGATION SYSTEM: "HYPACK" | -29.6 | 4 | | Rock |
| | -29.6 | 4 | | |
| WEATHER: WIND: DIR: SOUTHEAST SPEED: 10 to 15 Kt WAVES: DIR: SOUTHEAST HEIGHT: 1 to 2 Ft. CURRENT: DIR: SOUTHEAST SPEED: Slight | | 5 | | Refusal @ 4.0' |
| | | 6 | | |
| | | 7 | | |
| | | 8 | | |
| | | 9 | | |
| | | 10 | | |
| | | 11 | | |
| | | 12 | | |
| | | 13 | | |
| | | 14 | | |
| SAND SAMPLES TOP: 0.18 mm (visual estimate) Munsell Color: Wet 5Y-6/1 Dry 5Y-6/1 MID: N/A Munsell Color: N/A BOTTOM: 0.19 mm, Silt: 1.67%, Shell: 4% Munsell Color: Wet 5Y-5/1 Dry 5Y-6/1 | | 15 | | |
| | | 16 | | |
| | | 17 | | |
| | | 18 | | |
| | | 19 | | |
| | | 20 | | |
| | | 21 | | |
| | | 22 | | |
| | | 23 | | |
| | | 24 | | |
| TURBIDITY: TOP (0' - 2.0'): Moderate BOTTOM: (2.0' - 4.0'): Moderate | | | | |
| | | | | |
| DRAWN BY: JB JOB NO: 8500.04 | CHECKED BY: MDA / JLA | | | |

Gradation Analysis Report

Project Name: Collier County

Sample Name: CCJP-02-33 BOT

Sample Date: 01/14/03

Analyzed By: ID



Coastal Planning & Engineering, Inc.

2481 N.W. Boca Raton Blvd.
Boca Raton, FL 33431

| | | | |
|--------------------|---------------------|---|-------------------|
| Easting: 370654 | Northing: 635963 | Coordinate System: State Plane 1983 FL East Feet | Elevation: N/A |
|--------------------|---------------------|---|-------------------|

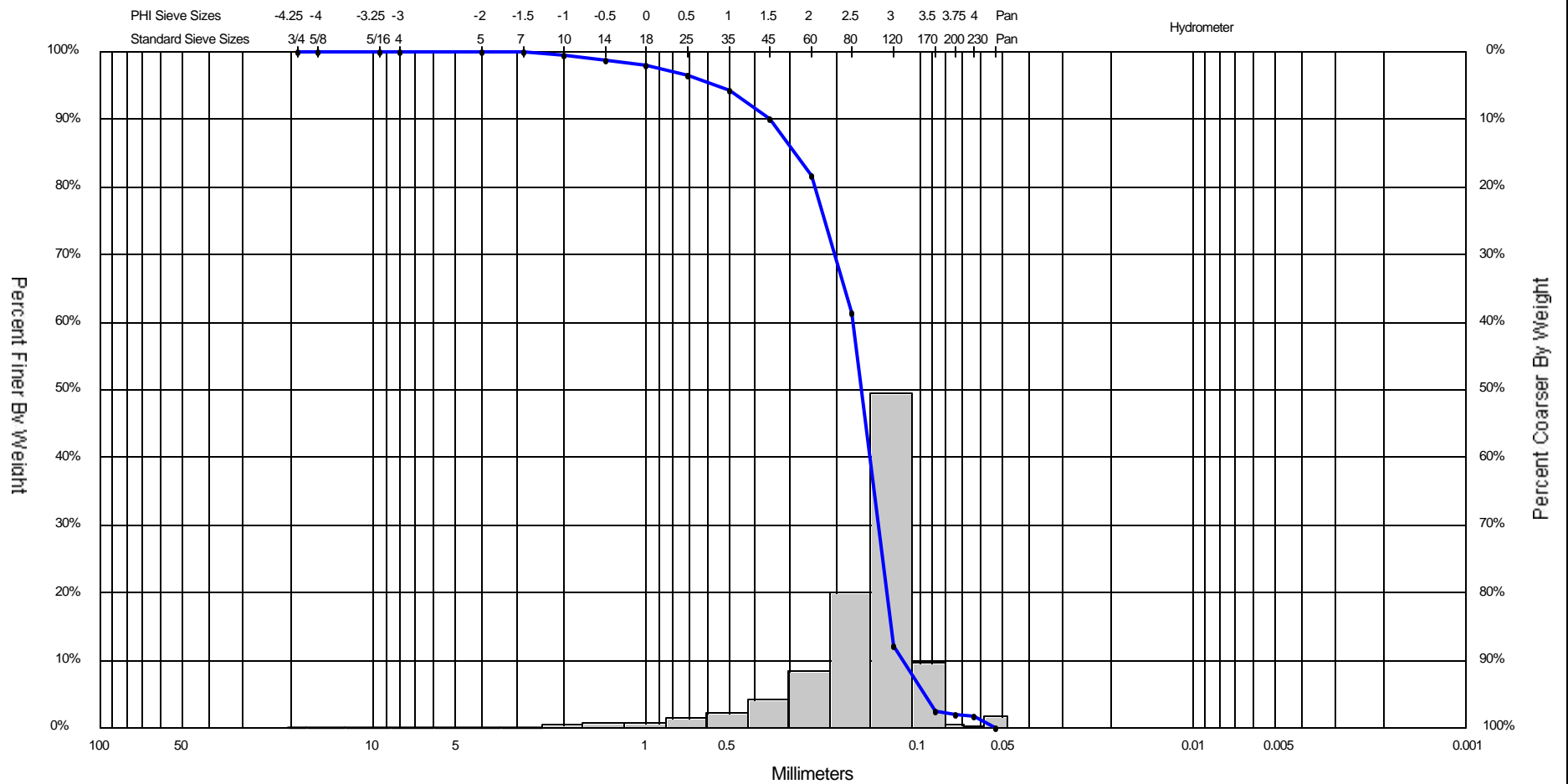
| | | | |
|-------------|-----------------------|-----------------------|---|
| USCS: SP | Dry Munsel: 5Y-6/1 | Wet Munsel: 5Y-5/1 | Comments: See logs for estimated % shell content |
|-------------|-----------------------|-----------------------|---|

| | | | | |
|----------------------|-----------------------|------------------|-----------------------|---|
| Dry Weight: 56.76 | Wash Weight: 55.83 | Sieve Loss: 0 | Percent Silt: 1.67 | Estimated Percent Shell Content: N/A |
|----------------------|-----------------------|------------------|-----------------------|---|


| Sieve Number | Sieve Size (Phi) | Sieve Size (Millimeters) | Grams Retained | % Weight Retained | Cum. Grams Retained | C. % Weight Retained |
|--------------|------------------|--------------------------|----------------|-------------------|---------------------|----------------------|
| 3/4 | -4.25 | 19.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5/8 | -4.00 | 16.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5/16 | -3.25 | 9.51 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | -3.00 | 8.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | -2.00 | 4.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | -1.50 | 2.82 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | -1.00 | 2.00 | 0.27 | 0.48 | 0.27 | 0.48 |
| 14 | -0.50 | 1.41 | 0.38 | 0.67 | 0.65 | 1.15 |
| 18 | 0.00 | 1.00 | 0.47 | 0.83 | 1.12 | 1.97 |
| 25 | 0.50 | 0.70 | 0.89 | 1.57 | 2.01 | 3.54 |
| 35 | 1.00 | 0.50 | 1.21 | 2.13 | 3.22 | 5.67 |
| 45 | 1.50 | 0.35 | 2.43 | 4.28 | 5.65 | 9.95 |
| 60 | 2.00 | 0.25 | 4.79 | 8.44 | 10.44 | 18.39 |
| 80 | 2.50 | 0.17 | 11.43 | 20.14 | 21.87 | 38.53 |
| 120 | 3.00 | 0.12 | 28.06 | 49.44 | 49.93 | 87.97 |
| 170 | 3.50 | 0.08 | 5.46 | 9.62 | 55.39 | 97.59 |
| 200 | 3.75 | 0.07 | 0.30 | 0.53 | 55.69 | 98.11 |
| 230 | 4.00 | 0.06 | 0.12 | 0.21 | 55.81 | 98.33 |
| Pan | Pan | Pan | 0.95 | 1.67 | 56.76 | 100.00 |

| | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|
| Phi 5 | Phi 16 | Phi 25 | Phi 50 | Phi 75 | Phi 84 | Phi 95 |
| 0.84 | 1.86 | 2.16 | 2.62 | 2.87 | 2.96 | 3.37 |

| | | | | | |
|------------|----------|---------|---------|----------|----------|
| Statistics | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis |
| Graphic | 2.33 | 0.20 | 0.66 | -0.78 | 1.47 |
| Moment | 2.38 | 0.19 | 0.85 | -0.70 | 2.22 |



| Gravel | | Sand | | | Silt and Clay |
|--------|------|--------|--------|------|---------------|
| Coarse | Fine | Coarse | Medium | Fine | |

| Sample | Symbol | Elev. | Comments | USCS | % Silt | Median | Mean | Skew | Kurt | Sort | Sample Information | |
|---|--------|-------|---------------------|------|--------|--------|------|-------|------|------|--------------------|-------------------------------|
| CCJP-02-33 BOT | | N/A | | SP | 1.67 | 0.16 | 0.19 | -0.70 | 2.22 | 0.85 | Project Name: | Collier County |
| Incremental % Weight | | N/A | Use Left Hand Scale | | | | | | | | Collection Date: | 01/14/03 |
| | | | | | | | | | | | Analyzed By: | ID |
|  <div> Coastal Planning & Engineering, Inc. 2481 N.W. Boca Raton Blvd. Boca Raton, FL 33431 ph 561 391-8102 fax 561 391-9116 </div> | | | | | | | | | | | Easting (X): | 370654 |
| | | | | | | | | | | | Northing (Y): | 635963 |
| | | | | | | | | | | | Horizontal System: | State Plane 1983 FL East Feet |
| | | | | | | | | | | | Vertical System: | N/A |