
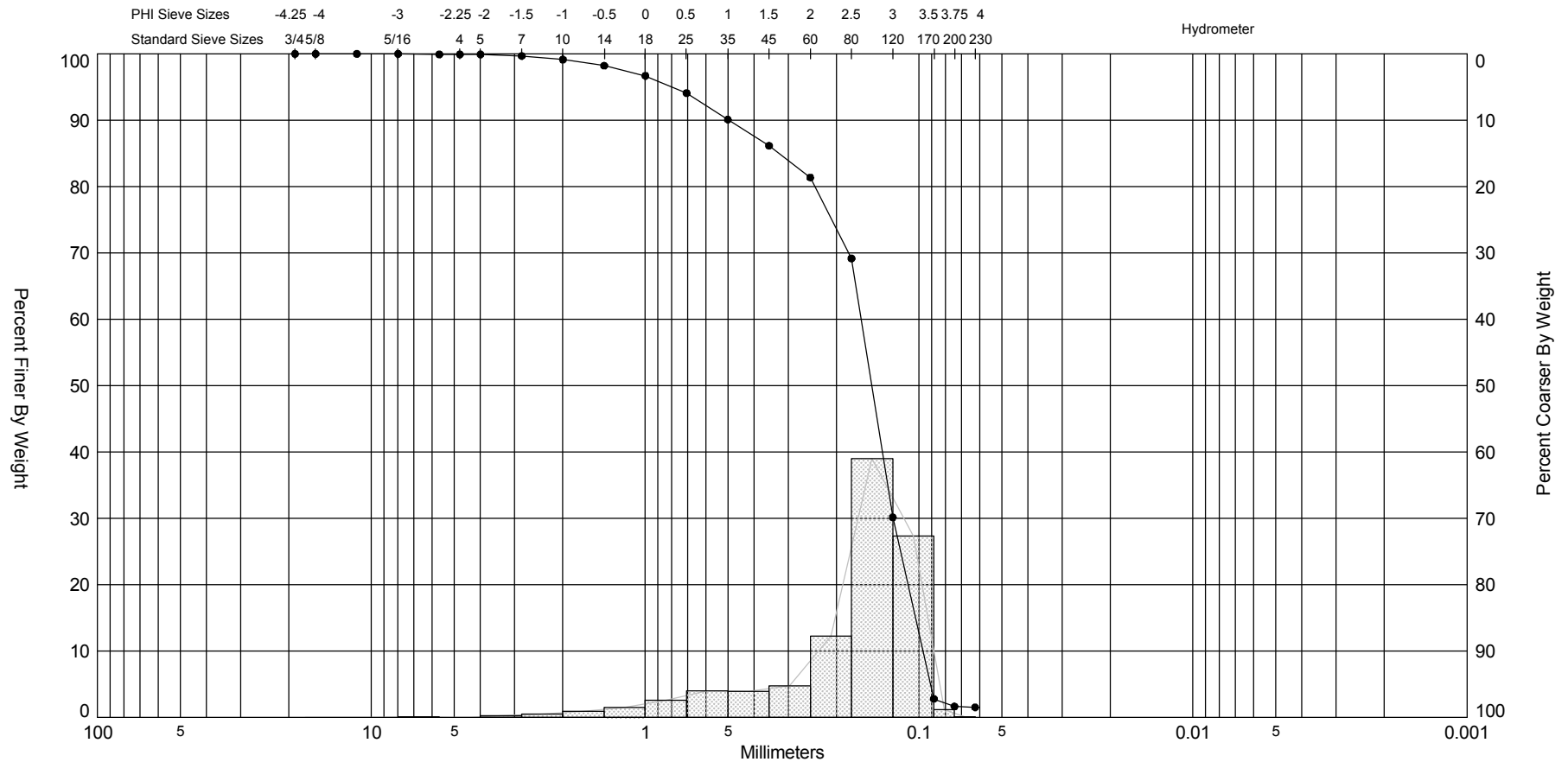



|  |                  |  |                 |   |                     |                      |                 |
|--|------------------|--|-----------------|---|---------------------|----------------------|-----------------|
| <b>Granularmetric Report</b><br>Depths and elevations based on measured values |                  |  |                 | <br>Coastal Planning & Engineering<br>2481 NW Boca Raton Blvd, Boca Raton<br>FL 33431<br>ph (561) 391-8102<br>fax (561) 391-9116 |                     |                      |                 |
| Project Name: 2007 Sand Search Investigation                                   |                  |  |                 |   |                     |                      |                 |
| Sample Name: TPVC-07-28 #3   |                  |  |                 |   |                     |                      |                 |
| Analysis Date: 02-08-07  |                  |  |                 |   |                     |                      |                 |
| Analyzed By: au  |                  |  |                 |   |                     |                      |                 |
| Easting (ft):  |                  | Northing (ft):   |                 | Coordinate System:  |                     | Elevation (ft):      |                 |
| 972,697  |                  | 834,585  |                 | Florida State Plane East  |                     | -32.8 NAVD 88        |                 |
| USCS:  |                  | Munsell: Wet - 2.5Y-5/1<br>Dry - 2.5Y-5/1<br>Washed - 2.5Y-5/1 |                 | Comments:   |                     |                      |                 |
| SW   |                  |  |                 |   |                     |                      |                 |
| Dry Weight (g):  | Wash Weight (g): | Pan Retained (g):  | Sieve Loss (%): | Fines (%):<br>#200 - 1.64<br>#230 - 1.52  | Organics (%):       | Carbonates (%):      | Shell Hash (%): |
| 82.86  | 81.71            | 0.01   | 0.12            |   |                     | 60.00                | 0               |
| Sieve Number   | Sieve Size (Phi) | Sieve Size (Millimeters)                                       | Grams Retained  | % Weight Retained   | Cum. Grams Retained | C. % Weight Retained |                 |
| 3/4  | -4.25            | 19.03  | 0.00            | 0.00  | 0.00                | 0.00                 |                 |
| 5/8  | -4.00            | 16.00  | 0.00            | 0.00  | 0.00                | 0.00                 |                 |
| 7/16   | -3.50            | 11.31  | 0.00            | 0.00  | 0.00                | 0.00                 |                 |
| 5/16   | -3.00            | 8.00   | 0.00            | 0.00  | 0.00                | 0.00                 |                 |
| 3.5  | -2.50            | 5.66   | 0.07            | 0.08  | 0.07                | 0.08                 |                 |
| 4  | -2.25            | 4.76   | 0.00            | 0.00  | 0.07                | 0.08                 |                 |
| 5  | -2.00            | 4.00   | 0.00            | 0.00  | 0.07                | 0.08                 |                 |
| 7  | -1.50            | 2.83   | 0.20            | 0.24  | 0.27                | 0.32                 |                 |
| 10   | -1.00            | 2.00   | 0.45            | 0.54  | 0.72                | 0.86                 |                 |
| 14   | -0.50            | 1.41   | 0.77            | 0.93  | 1.49                | 1.79                 |                 |
| 18   | 0.00             | 1.00   | 1.25            | 1.51  | 2.74                | 3.30                 |                 |
| 25   | 0.50             | 0.71   | 2.17            | 2.62  | 4.91                | 5.92                 |                 |
| 35   | 1.00             | 0.50   | 3.30            | 3.98  | 8.21                | 9.90                 |                 |
| 45   | 1.50             | 0.35   | 3.27            | 3.95  | 11.48               | 13.85                |                 |
| 60   | 2.00             | 0.25   | 3.96            | 4.78  | 15.44               | 18.63                |                 |
| 80   | 2.50             | 0.18   | 10.12           | 12.21   | 25.56               | 30.84                |                 |
| 120  | 3.00             | 0.13   | 32.33           | 39.02   | 57.89               | 69.86                |                 |
| 170  | 3.50             | 0.09   | 22.66           | 27.35   | 80.55               | 97.21                |                 |
| 200  | 3.75             | 0.07   | 0.95            | 1.15  | 81.50               | 98.36                |                 |
| 230  | 4.00             | 0.06   | 0.10            | 0.12  | 81.60               | 98.48                |                 |
|  |                  |  |                 |   |                     |                      |                 |
| Phi 5  | Phi 16           | Phi 25   | Phi 50          | Phi 75  | Phi 84              | Phi 95               |                 |
| 3.46   | 3.26             | 3.09   | 2.75            | 2.26  | 1.72                | 0.32                 |                 |
| Moment   | Mean Phi         | Mean mm  | Sorting         | Skewness  | Kurtosis            |                      |                 |
| Statistics   | 2.47             | 0.18   | 0.96            | -1.86   | 6.62                |                      |                 |

SIEVE ANALYSIS TOPB\_VC\_07.GPJ FL DEP ROSS.GDT 5/10/07



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

| Sample  | Symbol | Elev. (ft) | USCS | % Fines                    | % Organics | % Carbonates   | Median | Mean | Skew  | Kurt | Sort | Sample Information |                                |
|---|--------|------------|------|----------------------------|------------|--|--------|------|-------|------|------|--------------------|--------------------------------|
| TPVC-07-28 #3   | —●—    | -32.8      | SW   | #200 - 1.64<br>#230 - 1.52 |            | 60.00  | 2.75   | 2.47 | -1.86 | 6.62 | 0.96 | Project Name:      | 2007 Sand Search Investigation |
| Comments:   |        |            |      |                            |            |  |        |      |       |      |      | Analysis Date:     | 02-08-07                       |
| Depths and elevations based on measured values                                      |        |            |      |                            |            |  |        |      |       |      |      | Analyzed By:       | au                             |
|  |        |            |      |                            |            | Coastal Planning & Engineering<br>2481 NW Boca Raton Blvd, Boca Raton<br>FL 33431<br>ph (561) 391-8102<br>fax (561) 391-9116 |        |      |       |      |      | Easting (X, ft):   | 972,697                        |
|   |        |            |      |                            |            |  |        |      |       |      |      | Northing (Y, ft):  | 834,585                        |
|   |        |            |      |                            |            |  |        |      |       |      |      | Horizontal System: | NAD 1983                       |
|   |        |            |      |                            |            |  |        |      |       |      |      | Vertical System:   | NAVD 88                        |