
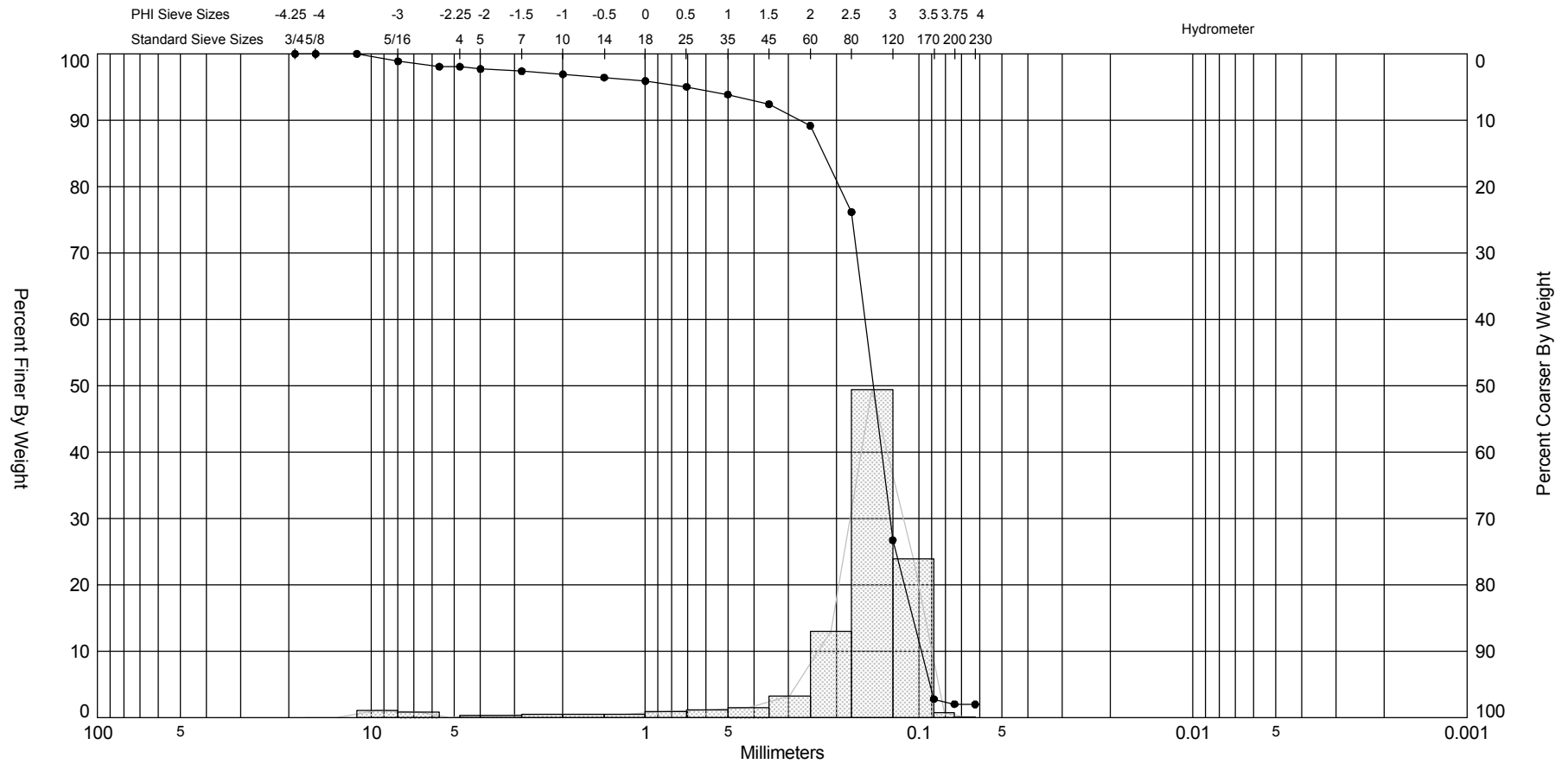



|  |                                  |  |                                |   |                            |   |                             |
|--|----------------------------------|--|--------------------------------|---|----------------------------|---|-----------------------------|
| <b>Granularmetric 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-07-07 #6   |                                  |  |                                |   |                            |   |                             |
| Analysis Date: 01-18-07  |                                  |  |                                |   |                            |   |                             |
| Analyzed By: mc  |                                  |  |                                |   |                            |   |                             |
| Easting (ft):<br><b>972,696</b>  |                                  | Northing (ft):<br><b>827,310</b>                               |                                | Coordinate System:<br><b>Florida State Plane East</b>   |                            | Elevation (ft):<br><b>-38.9 NAVD 88</b> |                             |
| USCS:<br><b>SW</b>   |                                  | Munsell: Wet - 2.5Y-5/1<br>Dry - 2.5Y-5/1<br>Washed - 2.5Y-5/1 |                                | Comments:   |                            |   |                             |
| Dry Weight (g):<br><b>85.38</b>  | Wash Weight (g):<br><b>83.75</b> | Pan Retained (g):<br><b>0.03</b>                               | Sieve Loss (%):<br><b>0.05</b> | Fines (%):<br><b>#200 - 2.04</b><br><b>#230 - 1.99</b>  | Organics (%):              | Carbonates (%):                         | Shell Hash (%):<br><b>1</b> |
| <b>Sieve Number</b>  | <b>Sieve Size (Phi)</b>          | <b>Sieve Size (Millimeters)</b>                                | <b>Grams Retained</b>          | <b>% Weight Retained</b>  | <b>Cum. Grams Retained</b> | <b>C. % Weight Retained</b>             |                             |
| 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   | 0.96                           | 1.12  | 0.96                       | 1.12                                    |                             |
| 3.5  | -2.50                            | 5.66   | 0.69                           | 0.81  | 1.65                       | 1.93                                    |                             |
| 4  | -2.25                            | 4.76   | 0.00                           | 0.00  | 1.65                       | 1.93                                    |                             |
| 5  | -2.00                            | 4.00   | 0.30                           | 0.35  | 1.95                       | 2.28                                    |                             |
| 7  | -1.50                            | 2.83   | 0.28                           | 0.33  | 2.23                       | 2.61                                    |                             |
| 10   | -1.00                            | 2.00   | 0.39                           | 0.46  | 2.62                       | 3.07                                    |                             |
| 14   | -0.50                            | 1.41   | 0.42                           | 0.49  | 3.04                       | 3.56                                    |                             |
| 18   | 0.00                             | 1.00   | 0.44                           | 0.52  | 3.48                       | 4.08                                    |                             |
| 25   | 0.50                             | 0.71   | 0.75                           | 0.88  | 4.23                       | 4.96                                    |                             |
| 35   | 1.00                             | 0.50   | 1.00                           | 1.17  | 5.23                       | 6.13                                    |                             |
| 45   | 1.50                             | 0.35   | 1.25                           | 1.46  | 6.48                       | 7.59                                    |                             |
| 60   | 2.00                             | 0.25   | 2.77                           | 3.24  | 9.25                       | 10.83                                   |                             |
| 80   | 2.50                             | 0.18   | 11.10                          | 13.00   | 20.35                      | 23.83                                   |                             |
| 120  | 3.00                             | 0.13   | 42.22                          | 49.45   | 62.57                      | 73.28                                   |                             |
| 170  | 3.50                             | 0.09   | 20.43                          | 23.93   | 83.00                      | 97.21                                   |                             |
| 200  | 3.75                             | 0.07   | 0.64                           | 0.75  | 83.64                      | 97.96                                   |                             |
| 230  | 4.00                             | 0.06   | 0.04                           | 0.05  | 83.68                      | 98.01                                   |                             |
|  |                                  |  |                                |   |                            |   |                             |
| <b>Phi 5</b>   | <b>Phi 16</b>                    | <b>Phi 25</b>  | <b>Phi 50</b>                  | <b>Phi 75</b>   | <b>Phi 84</b>              | <b>Phi 95</b>                           |                             |
| 3.45   | 3.22                             | 3.04   | 2.76                           | 2.51  | 2.20                       | 0.52                                    |                             |
| <b>Moment</b>  | <b>Mean Phi</b>                  | <b>Mean mm</b>   | <b>Sorting</b>                 | <b>Skewness</b>   | <b>Kurtosis</b>            |   |                             |
| <b>Statistics</b>  | 2.51                             | 0.18   | 1.1                            | -3.48   | 16.32                      |   |                             |

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-07-07 #6   | —●—    | -38.9      | SW   | #200 - 2.04<br>#230 - 1.99 |            |  | 2.76   | 2.51 | -3.48 | 16.32 | 1.1  | Project Name:      | 2007 Sand Search Investigation |
| Comments:   |        |            |      |                            |            |  |        |      |       |       |      | Analysis Date:     | 01-18-07                       |
| Depths and elevations based on measured values                                      |        |            |      |                            |            |  |        |      |       |       |      | Analyzed By:       | mc                             |
|  |        |            |      |                            |            | 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):   | 972,696                        |
|   |        |            |      |                            |            |  |        |      |       |       |      | Northing (Y, ft):  | 827,310                        |
|   |        |            |      |                            |            |  |        |      |       |       |      | Horizontal System: | NAD 1983                       |
|   |        |            |      |                            |            |  |        |      |       |       |      | Vertical System:   | NAVD 88                        |