
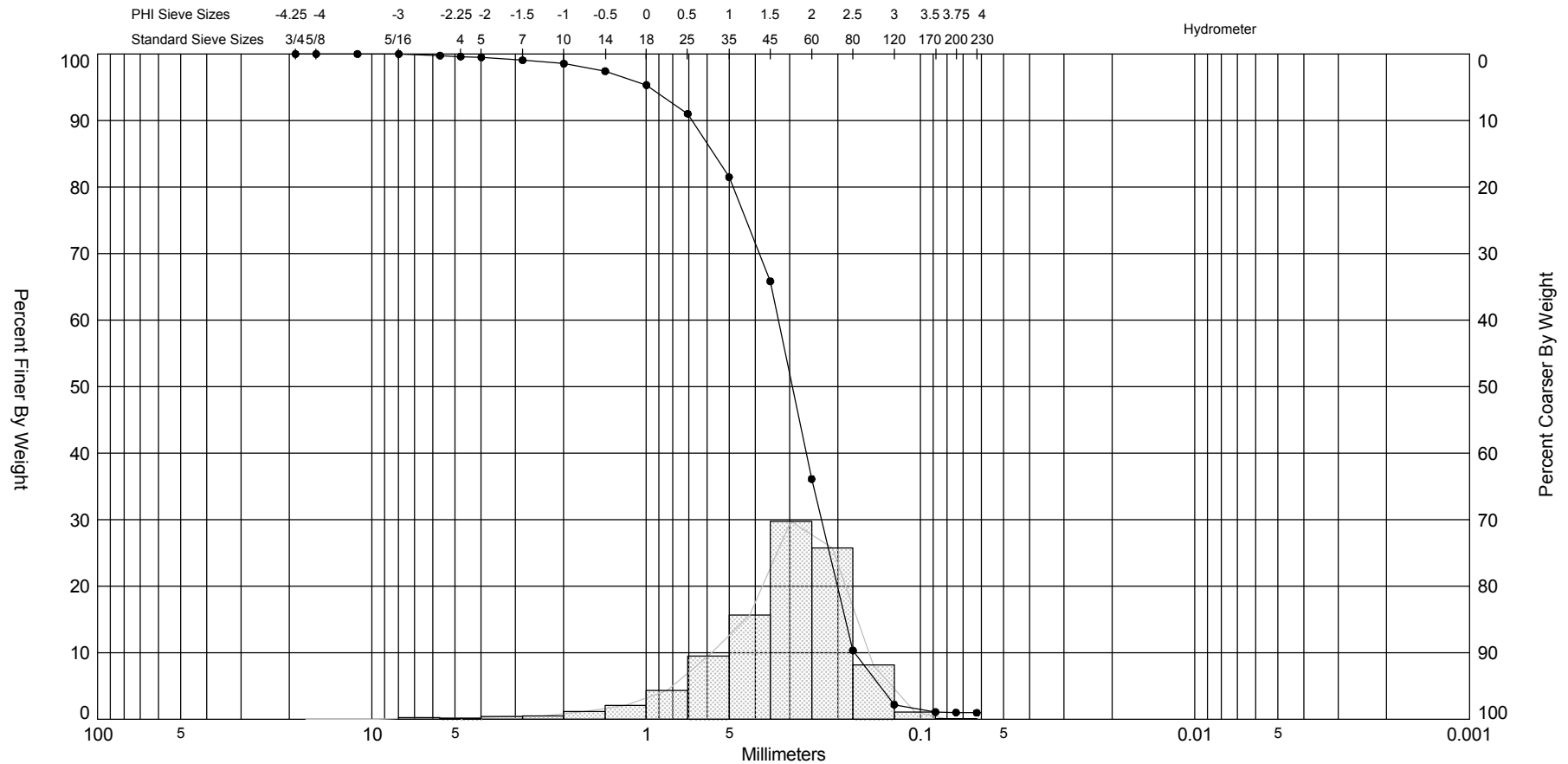



|  |                  |                          |                 |   |                     |                      |                 |
|--|------------------|--------------------------|-----------------|---|---------------------|----------------------|-----------------|
| <b>Granularmetric Report</b><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: Central Boca Beach Monitoring                                    |                  |                          |                 |   |                     |                      |                 |
| Sample Name: R-218 Mid Berm  |                  |                          |                 |   |                     |                      |                 |
| Analysis Date: 06-29-05  |                  |                          |                 |   |                     |                      |                 |
| Analyzed By: AU  |                  |                          |                 |   |                     |                      |                 |
| Easting (ft):  |                  | Northing (ft):           |                 | Coordinate System:  |                     | Elevation (ft):      |                 |
| 960,951  |                  | 734,134                  |                 | Florida State Plane East  |                     | 4.8 NAVD 88          |                 |
| USCS:  |                  | Munsell:                 |                 | Comments:   |                     |                      |                 |
| SP   |                  |                          |                 |   |                     |                      |                 |
| Dry Weight (g):  | Wash Weight (g): | Pan Retained (g):        | Sieve Loss (%): | Fines (%):  | Organics (%):       | Carbonates (%):      | Shell Hash (%): |
| 105.68   | 104.67           | 0.00                     | 0.00            | #200 - 1.01<br>#230 - 0.96  |                     |                      | 29              |
| 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                     | 0.25            | 0.24  | 0.25                | 0.24                 |                 |
| 4  | -2.25            | 4.76                     | 0.16            | 0.15  | 0.41                | 0.39                 |                 |
| 5  | -2.00            | 4.00                     | 0.14            | 0.13  | 0.55                | 0.52                 |                 |
| 7  | -1.50            | 2.83                     | 0.43            | 0.41  | 0.98                | 0.93                 |                 |
| 10   | -1.00            | 2.00                     | 0.55            | 0.52  | 1.53                | 1.45                 |                 |
| 14   | -0.50            | 1.41                     | 1.21            | 1.14  | 2.74                | 2.59                 |                 |
| 18   | 0.00             | 1.00                     | 2.20            | 2.08  | 4.94                | 4.67                 |                 |
| 25   | 0.50             | 0.71                     | 4.55            | 4.31  | 9.49                | 8.98                 |                 |
| 35   | 1.00             | 0.50                     | 10.08           | 9.54  | 19.57               | 18.52                |                 |
| 45   | 1.50             | 0.35                     | 16.54           | 15.65   | 36.11               | 34.17                |                 |
| 60   | 2.00             | 0.25                     | 31.41           | 29.72   | 67.52               | 63.89                |                 |
| 80   | 2.50             | 0.18                     | 27.22           | 25.76   | 94.74               | 89.65                |                 |
| 120  | 3.00             | 0.13                     | 8.62            | 8.16  | 103.36              | 97.80                |                 |
| 170  | 3.50             | 0.09                     | 1.18            | 1.12  | 104.54              | 98.92                |                 |
| 200  | 3.75             | 0.07                     | 0.07            | 0.07  | 104.61              | 98.99                |                 |
| 230  | 4.00             | 0.06                     | 0.06            | 0.06  | 104.67              | 99.04                |                 |
|  |                  |                          |                 |   |                     |                      |                 |
| Phi 5  | Phi 16           | Phi 25                   | Phi 50          | Phi 75  | Phi 84              | Phi 95               |                 |
| 2.83   | 2.39             | 2.22                     | 1.77            | 1.21  | 0.87                | 0.04                 |                 |
| Moment   | Mean Phi         | Mean mm                  | Sorting         | Skewness  | Kurtosis            |                      |                 |
| Statistics   | 1.62             | 0.33                     | 0.86            | -1.37   | 6.38                |                      |                 |



| 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 |                               |
|---|--------|------------|------|----------------------------|------------|--|--------|------|-------|------|--------------------|--------------------|-------------------------------|
| R-218 Mid Berm  | —●—    |            | SP   | #200 - 1.01<br>#230 - 0.96 |            |  | 1.77   | 1.62 | -1.37 | 6.38 | 0.86               | Project Name:      | Central Boca Beach Monitoring |
| Comments:   |        |            |      |                            |            |  |        |      |       |      |                    | Analysis Date:     | 06-29-05                      |
| 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):   |                    |                               |
|   |        |            |      |                            |            |  |        |      |       |      | Northing (Y, ft):  |                    |                               |
|   |        |            |      |                            |            |  |        |      |       |      | Horizontal System: |                    | NAD 1983                      |
|   |        |            |      |                            |            |  |        |      |       |      | Vertical System:   |                    | NAVD 88                       |