
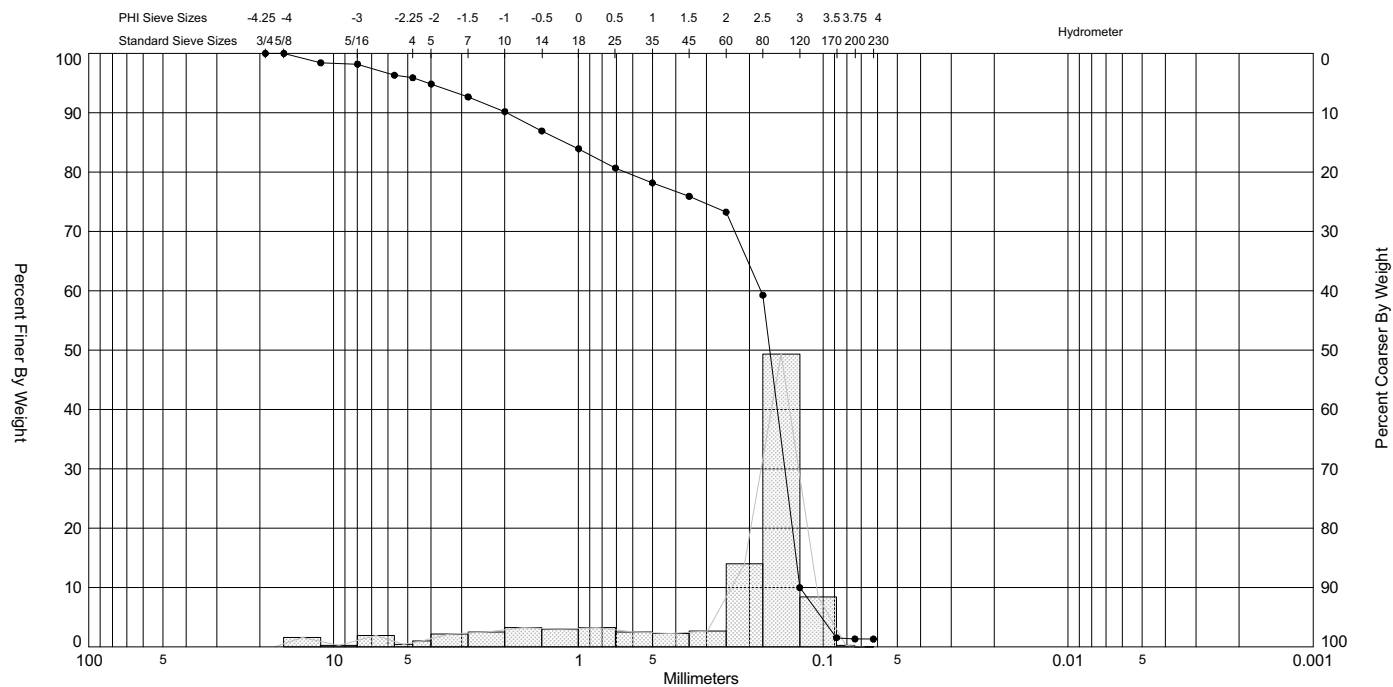




|  |   |  |  |   |                     |  |   |
|--|---|--|--|---|---------------------|--|---|
| <b>Granularmetric Report</b><br>Depths and elevations based on measured values |   |  |  | <br>Coastal Planning & Engineering<br>2481 NW Boca Raton Blvd, Boca Raton<br>FL 33431<br>ph (561) 391-8102<br>fax (561) 391-9116 |                     |  |   |
| Project Name: AMI Beach Samples 2008   |   |  |  |   |                     |  |   |
| Sample Name: R-41 MTL  |   |  |  |   |                     |  |   |
| Analysis Date: 09-30-08  |   |  |  |   |                     |  |   |
| Analyzed By: TD  |   |  |  |   |                     |  |   |
| Easting (ft):<br><div style="text-align: center;">431,953</div>                |   | Northing (ft):<br><div style="text-align: center;">1,131,627</div> |  | Coordinate System:<br><div style="text-align: center;">Florida State Plane West</div>   |                     | Elevation (ft):<br><div style="text-align: center;">-0.5 NAVD 88</div> |   |
| USCS:<br><div style="text-align: center;">SW</div>                             |   | Munsell: Wet - 2.5Y-7/1<br>Dry - 2.5Y-8/2<br>Washed - 2.5Y-8/1     |  | Comments:   |                     |  |   |
| Dry Weight (g):<br><div style="text-align: center;">102.60</div>               | Wash Weight (g):<br><div style="text-align: center;">101.38</div> | Pan Retained (g):<br><div style="text-align: center;">0.01</div>   | Sieve Loss (%):<br><div style="text-align: center;">0.11</div> | Fines (%):<br>#200 - 1.33<br>#230 - 1.31  | Organics (%):       | Carbonates (%):<br><div style="text-align: center;">27</div>           | Shell Hash (%):<br><div style="text-align: center;">3</div> |
| 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  | 1.62   | 1.58  | 1.62                | 1.58   |   |
| 5/16"  | -3.00   | 8.00   | 0.23   | 0.22  | 1.85                | 1.80   |   |
| 3.5  | -2.50   | 5.66   | 1.93   | 1.88  | 3.78                | 3.68   |   |
| 4  | -2.25   | 4.76   | 0.44   | 0.43  | 4.22                | 4.11   |   |
| 5  | -2.00   | 4.00   | 1.07   | 1.04  | 5.29                | 5.15   |   |
| 7  | -1.50   | 2.83   | 2.24   | 2.18  | 7.53                | 7.33   |   |
| 10   | -1.00   | 2.00   | 2.54   | 2.48  | 10.07               | 9.81   |   |
| 14   | -0.50   | 1.41   | 3.34   | 3.26  | 13.41               | 13.07  |   |
| 18   | 0.00  | 1.00   | 3.07   | 2.99  | 16.48               | 16.06  |   |
| 25   | 0.50  | 0.71   | 3.33   | 3.25  | 19.81               | 19.31  |   |
| 35   | 1.00  | 0.50   | 2.58   | 2.51  | 22.39               | 21.82  |   |
| 45   | 1.50  | 0.35   | 2.33   | 2.27  | 24.72               | 24.09  |   |
| 60   | 2.00  | 0.25   | 2.71   | 2.64  | 27.43               | 26.73  |   |
| 80   | 2.50  | 0.18   | 14.36  | 14.00   | 41.79               | 40.73  |   |
| 120  | 3.00  | 0.13   | 50.58  | 49.30   | 92.37               | 90.03  |   |
| 170  | 3.50  | 0.09   | 8.65   | 8.43  | 101.02              | 98.46  |   |
| 200  | 3.75  | 0.07   | 0.22   | 0.21  | 101.24              | 98.67  |   |
| 230  | 4.00  | 0.06   | 0.02   | 0.02  | 101.26              | 98.69  |   |
| Shell Hash calculated from visual estimate of shell <4.75mm and >2.8mm.        |   |  |  |   |                     |  |   |
| Phi 5  | Phi 16  | Phi 25   | Phi 50   | Phi 75  | Phi 84              | Phi 95   |   |
| 3.29   | 2.94  | 2.85   | 2.59   | 1.67  | -0.01               | -2.04  |   |
| Moment   | Mean Phi  | Mean mm  | Sorting  | Skewness  | Kurtosis            |  |   |
| Statistics   | 1.83  | 0.28   | 1.68   | -1.68   | 4.8                 |  |   |



| 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-41 MTL  |  | -0.5       | SW   | #200 - 1.33<br>#230 - 1.31 |            | 27   | 2.59   | 1.83 | -1.68 | 4.8  | 1.68 | Project Name:      | AMI Beach Samples 2008 |
| Comments:   |   |            |      |                            |            |  |        |      |       |      |      | Analysis Date:     | 09-30-08               |
| Depths and elevations based on measured values                                      |   |            |      |                            |            |  |        |      |       |      |      | Analyzed By:       | TD                     |
|  |   |            |      |                            |            | 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):   | 431,953                |
|   |   |            |      |                            |            |  |        |      |       |      |      | Northing (Y, ft):  | 1,131,627              |
|   |   |            |      |                            |            |  |        |      |       |      |      | Horizontal System: | NAD 1983               |
|   |   |            |      |                            |            |  |        |      |       |      |      | Vertical System:   | NAVD 88                |