
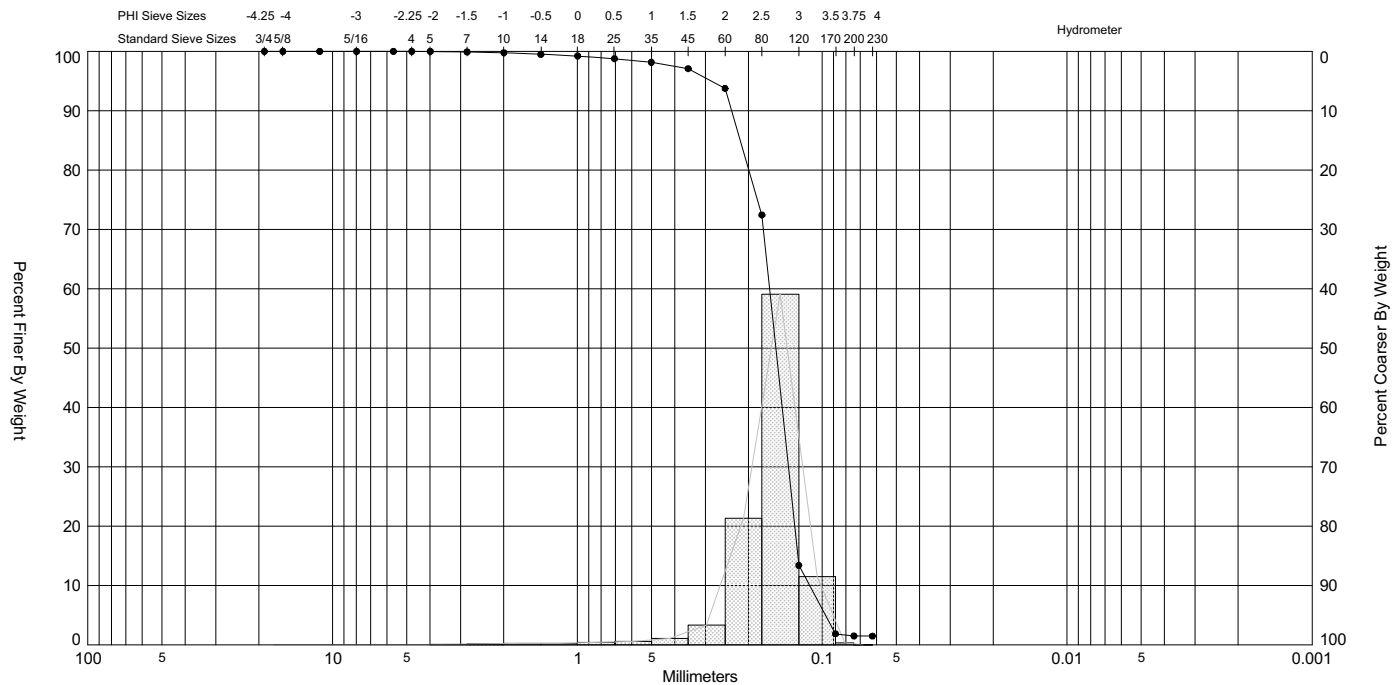




|  |  |  |  |   |                     |   |   |
|--|--|--|--|---|---------------------|---|---|
| <b>Granularmetric Report</b><br>Depths and elevations based on measured values |  |  |  | <br>Coastal Planning & Engineering<br>2481 NW Boca Raton Blvd, Boca Raton<br>FL 33431<br>ph (561) 391-8102<br>fax (561) 391-9116 |                     |   |   |
| Project Name: AMI 2008 Sand Search   |  |  |  |   |                     |   |   |
| Sample Name: AMVC-08-18 #2   |  |  |  |   |                     |   |   |
| Analysis Date: 07-08-08  |  |  |  |   |                     |   |   |
| Analyzed By: TD  |  |  |  |   |                     |   |   |
| Easting (ft):<br><div style="text-align: center;">411,655</div>                |  | Northing (ft):<br><div style="text-align: center;">1,156,808</div> |  | Coordinate System:<br><div style="text-align: center;">Florida State Plane West</div>   |                     | Elevation (ft):<br><div style="text-align: center;">-20.0 NAVD 88</div> |   |
| USCS:<br><div style="text-align: center;">SP</div>                             |  | Munsell: Wet - 5Y-7/1<br>Dry - 5Y-7/1<br>Washed - 5Y-8/1           |  | Comments:   |                     |   |   |
| Dry Weight (g):<br><div style="text-align: center;">89.11</div>                | Wash Weight (g):<br><div style="text-align: center;">87.86</div> | Pan Retained (g):<br><div style="text-align: center;">0.02</div>   | Sieve Loss (%):<br><div style="text-align: center;">0.03</div> | Fines (%):<br>#200 - 1.50<br>#230 - 1.46  | Organics (%):       | Carbonates (%):<br><div style="text-align: center;">5</div>             | Shell Hash (%):<br><div style="text-align: center;">0</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  | 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   | 0.00   | 0.00  | 0.00                | 0.00  |   |
| 4  | -2.25  | 4.76   | 0.00   | 0.00  | 0.00                | 0.00  |   |
| 5  | -2.00  | 4.00   | 0.00   | 0.00  | 0.00                | 0.00  |   |
| 7  | -1.50  | 2.83   | 0.08   | 0.09  | 0.08                | 0.09  |   |
| 10   | -1.00  | 2.00   | 0.12   | 0.13  | 0.20                | 0.22  |   |
| 14   | -0.50  | 1.41   | 0.25   | 0.28  | 0.45                | 0.50  |   |
| 18   | 0.00   | 1.00   | 0.24   | 0.27  | 0.69                | 0.77  |   |
| 25   | 0.50   | 0.71   | 0.40   | 0.45  | 1.09                | 1.22  |   |
| 35   | 1.00   | 0.50   | 0.54   | 0.61  | 1.63                | 1.83  |   |
| 45   | 1.50   | 0.35   | 0.95   | 1.07  | 2.58                | 2.90  |   |
| 60   | 2.00   | 0.25   | 2.97   | 3.33  | 5.55                | 6.23  |   |
| 80   | 2.50   | 0.18   | 19.00  | 21.32   | 24.55               | 27.55   |   |
| 120  | 3.00   | 0.13   | 52.62  | 59.05   | 77.17               | 86.60   |   |
| 170  | 3.50   | 0.09   | 10.27  | 11.53   | 87.44               | 98.13   |   |
| 200  | 3.75   | 0.07   | 0.33   | 0.37  | 87.77               | 98.50   |   |
| 230  | 4.00   | 0.06   | 0.04   | 0.04  | 87.81               | 98.54   |   |
| 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  |   |
| 3.36   | 2.98   | 2.90   | 2.69   | 2.44  | 2.23                | 1.82  |   |
| Moment   | Mean Phi   | Mean mm  | Sorting  | Skewness  | Kurtosis            |   |   |
| Statistics   | 2.6  | 0.16   | 0.53   | -3.04   | 19.21               |   |   |



|        |      |        |        |      |               |
|--------|------|--------|--------|------|---------------|
| 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 |                      |
|---|---|------------|------|----------------------------|------------|--|--------|------|-------|-------|------|--------------------|----------------------|
| AMVC-08-18 #2   |  | -20.0      | SP   | #200 - 1.50<br>#230 - 1.46 |            | 5  | 2.69   | 2.6  | -3.04 | 19.21 | 0.53 | Project Name:      | AMI 2008 Sand Search |
| Comments:   |   |            |      |                            |            |  |        |      |       |       |      | Analysis Date:     | 07-08-08             |
| 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):   | 411,655              |
|   |   |            |      |                            |            |  |        |      |       |       |      | Northing (Y, ft):  | 1,156,808            |
|   |   |            |      |                            |            |  |        |      |       |       |      | Horizontal System: | NAD 1983             |
|   |   |            |      |                            |            |  |        |      |       |       |      | Vertical System:   | NAVD 88              |