
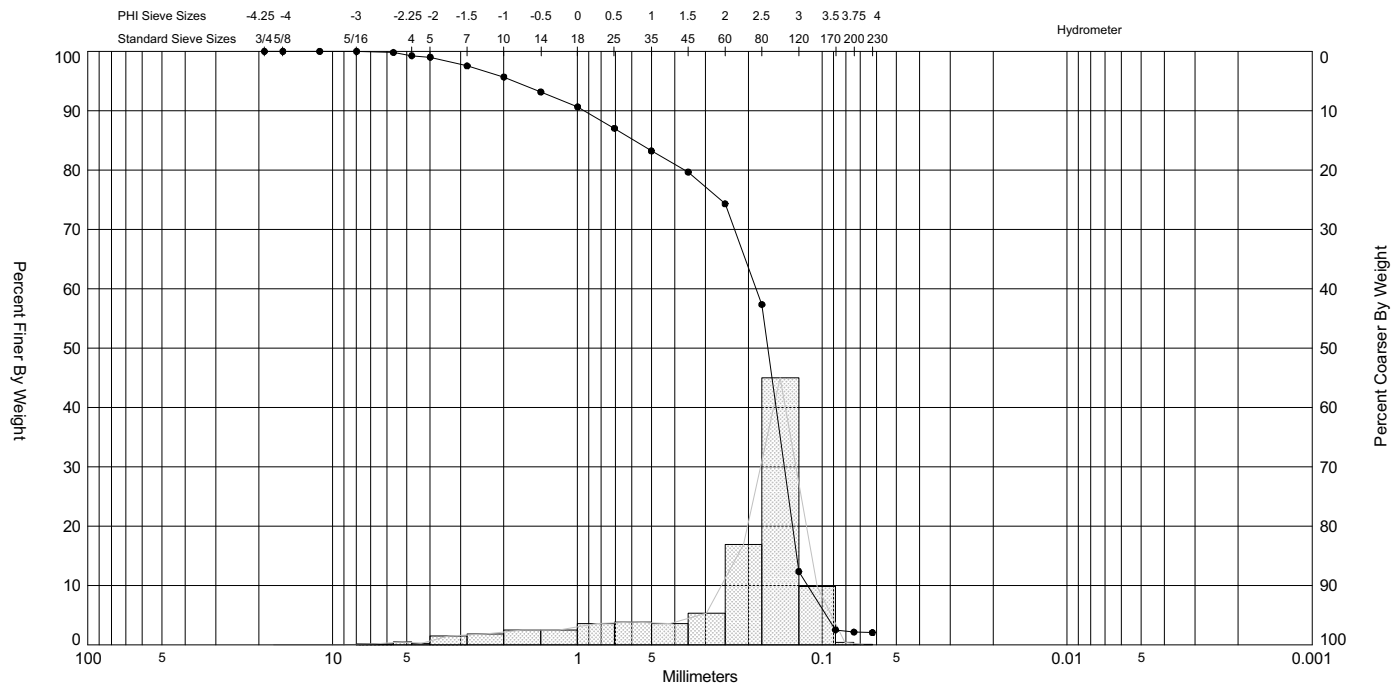



| | | | | | | | |
|--------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------|-------------------------------------------------------------|
| Granularmetric Report Depths and elevations based on measured values | | | |  Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116 | | | |
| Project Name: Anna Maria Island | | | | | | | |
| Sample Name: AMVC-05-13 #2 | | | | | | | |
| Analysis Date: 03-04-05 | | | | | | | |
| Analyzed By: CPE | | | | | | | |
| Easting (ft): <div style="text-align: center;">412,983</div> | | Northing (ft): <div style="text-align: center;">1,155,942</div> | | Coordinate System: <div style="text-align: center;">Florida State Plane West</div> | | Elevation (ft): <div style="text-align: center;">-20.8 NAVD 88</div> | |
| USCS: <div style="text-align: center;">SW</div> | | Munsell: Wet - 5Y-7/1 Dry - 5Y-7/2 Washed - 5Y-7/1 | | Comments: | | | |
| Dry Weight (g): <div style="text-align: center;">77.04</div> | Wash Weight (g): <div style="text-align: center;">75.66</div> | Pan Retained (g): <div style="text-align: center;">0.03</div> | Sieve Loss (%): <div style="text-align: center;">0.23</div> | Fines (%): #200 - 2.15 #230 - 2.05 | Organics (%): | Carbonates (%): <div style="text-align: center;">55</div> | Shell Hash (%): <div style="text-align: center;">1</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 | |
| 11/16" | -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 | 0.15 | 0.19 | 0.15 | 0.19 | |
| 4 | -2.25 | 4.76 | 0.41 | 0.53 | 0.56 | 0.72 | |
| 5 | -2.00 | 4.00 | 0.19 | 0.25 | 0.75 | 0.97 | |
| 7 | -1.50 | 2.83 | 1.14 | 1.48 | 1.89 | 2.45 | |
| 10 | -1.00 | 2.00 | 1.43 | 1.86 | 3.32 | 4.31 | |
| 14 | -0.50 | 1.41 | 1.94 | 2.52 | 5.26 | 6.83 | |
| 18 | 0.00 | 1.00 | 1.95 | 2.53 | 7.21 | 9.36 | |
| 25 | 0.50 | 0.71 | 2.77 | 3.60 | 9.98 | 12.96 | |
| 35 | 1.00 | 0.50 | 2.94 | 3.82 | 12.92 | 16.78 | |
| 45 | 1.50 | 0.35 | 2.74 | 3.56 | 15.66 | 20.34 | |
| 60 | 2.00 | 0.25 | 4.13 | 5.36 | 19.79 | 25.70 | |
| 80 | 2.50 | 0.18 | 13.06 | 16.95 | 32.85 | 42.65 | |
| 120 | 3.00 | 0.13 | 34.66 | 44.99 | 67.51 | 87.64 | |
| 170 | 3.50 | 0.09 | 7.57 | 9.83 | 75.08 | 97.47 | |
| 200 | 3.75 | 0.07 | 0.29 | 0.38 | 75.37 | 97.85 | |
| 230 | 4.00 | 0.06 | 0.08 | 0.10 | 75.45 | 97.95 | |
| 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 | |
| 3.37 | 2.96 | 2.86 | 2.58 | 1.93 | 0.90 | -0.86 | |
| Moment | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis | | |
| Statistics | 2.08 | 0.24 | 1.25 | -1.72 | 5.26 | | |

SIEVE ANALYSIS ANNA MARIA_05 NAVD88.GPJ FL DEPROSS.GDT 10/30/08



| 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-05-13 #2 | —●— | -20.8 | SW | #200 - 2.15 #230 - 2.05 | | 55 | 2.58 | 2.08 | -1.72 | 5.26 | 1.25 | Project Name: | Anna Maria Island |
| Comments: | | | | | | | | | | | | Analysis Date: | 03-04-05 |
| Depths and elevations based on measured values | | | | | | | | | | | | Analyzed By: | CPE |
|  | | | | | | Coastal Planning & Engineering | | | | | | Easting (X, ft): | 412,983 |
| | | | | | | 2481 NW Boca Raton Blvd, Boca Raton | | | | | | Northing (Y, ft): | 1,155,942 |
| | | | | | | FL 33431 | | | | | | Horizontal System: | NAD 1983 |
| | | | | | | ph (561) 391-8102 fax (561) 391-9116 | | | | | | Vertical System: | NAVD 88 |