

# Granularmetric Report

Depths and elevations based on measured values



Coastal Planning & Engineering  
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Project Name: AMI 2008 Sand Search

Sample Name: AMVC-08-10 #3

Analysis Date: 07-07-08

Analyzed By: LH

|               |                |
|---------------|----------------|
| Easting (ft): | Northing (ft): |
| 411,957       | 1,156,109      |

|                          |                 |
|--------------------------|-----------------|
| Coordinate System:       | Elevation (ft): |
| Florida State Plane West | -20.7 NAVD 88   |

|       |          |                                                   |           |
|-------|----------|---------------------------------------------------|-----------|
| USCS: | Munsell: | Wet - 5Y-7/1<br>Dry - 2.5Y-8/1<br>Washed - 5Y-8/1 | Comments: |
| SW    |          |                                                   |           |

|                 |                  |                   |                 |                            |               |                 |                 |
|-----------------|------------------|-------------------|-----------------|----------------------------|---------------|-----------------|-----------------|
| Dry Weight (g): | Wash Weight (g): | Pan Retained (g): | Sieve Loss (%): | Fines (%):                 | Organics (%): | Carbonates (%): | Shell Hash (%): |
| 84.71           | 83.47            | 0.02              | 0.00            | #200 - 1.49<br>#230 - 1.48 |               | 17              | 3               |

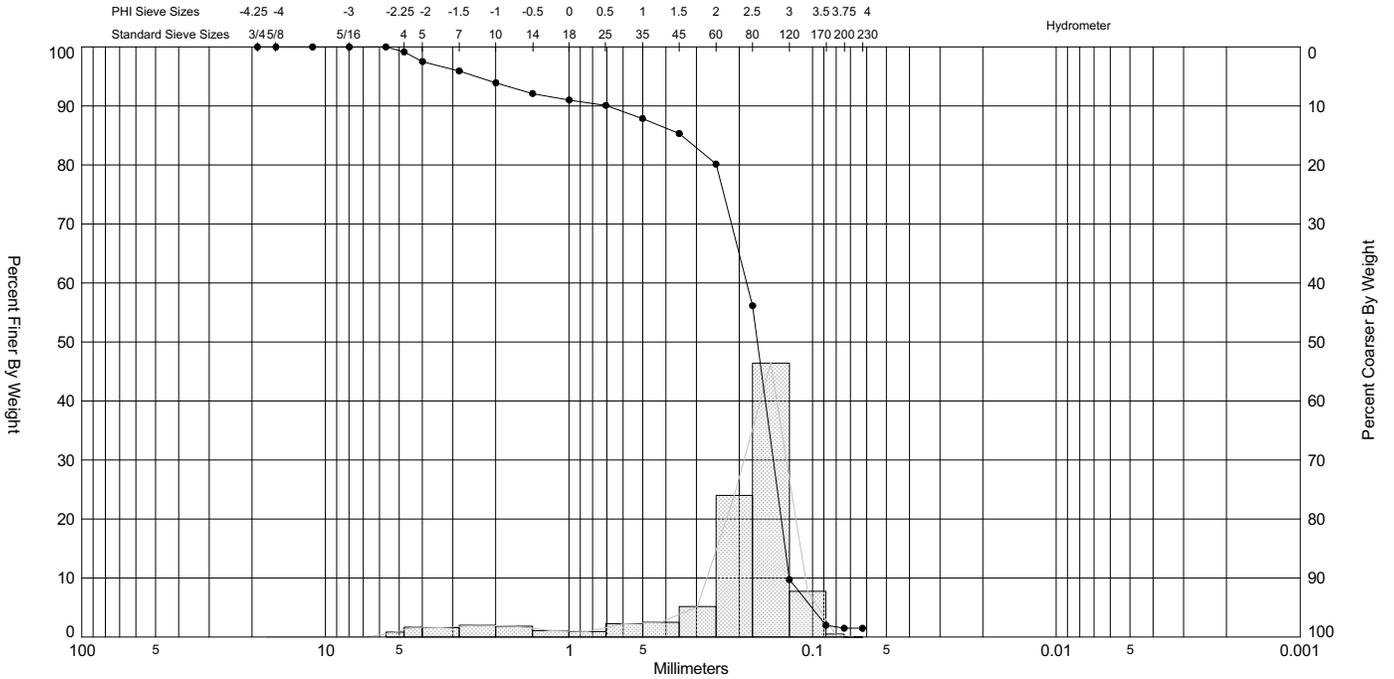
| Sieve Number | Sieve Size (Phi) | Sieve Size (Millimeters) | Grams Retained | % Weight Retained | Cum. Grams Retained | C. % Weight Retained |
|--------------|------------------|--------------------------|----------------|-------------------|---------------------|----------------------|
| 3/4"         | -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                     | 0.70           | 0.83              | 0.70                | 0.83                 |
| 5            | -2.00            | 4.00                     | 1.39           | 1.64              | 2.09                | 2.47                 |
| 7            | -1.50            | 2.83                     | 1.35           | 1.59              | 3.44                | 4.06                 |
| 10           | -1.00            | 2.00                     | 1.71           | 2.02              | 5.15                | 6.08                 |
| 14           | -0.50            | 1.41                     | 1.53           | 1.81              | 6.68                | 7.89                 |
| 18           | 0.00             | 1.00                     | 0.92           | 1.09              | 7.60                | 8.98                 |
| 25           | 0.50             | 0.71                     | 0.78           | 0.92              | 8.38                | 9.90                 |
| 35           | 1.00             | 0.50                     | 1.89           | 2.23              | 10.27               | 12.13                |
| 45           | 1.50             | 0.35                     | 2.14           | 2.53              | 12.41               | 14.66                |
| 60           | 2.00             | 0.25                     | 4.40           | 5.19              | 16.81               | 19.85                |
| 80           | 2.50             | 0.18                     | 20.33          | 24.00             | 37.14               | 43.85                |
| 120          | 3.00             | 0.13                     | 39.33          | 46.43             | 76.47               | 90.28                |
| 170          | 3.50             | 0.09                     | 6.54           | 7.72              | 83.01               | 98.00                |
| 200          | 3.75             | 0.07                     | 0.43           | 0.51              | 83.44               | 98.51                |
| 230          | 4.00             | 0.06                     | 0.01           | 0.01              | 83.45               | 98.52                |

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 |
| 3.31              | 2.93     | 2.84    | 2.57    | 2.11     | 1.63     | -1.27  |
| Moment Statistics | Mean Phi | Mean mm | Sorting | Skewness | Kurtosis |        |
|                   | 2.14     | 0.23    | 1.25    | -2.2     | 7.13     |        |

GRANULARMETRIC REPORT AMI\_2008\_VIBRACORES\_ALL.GPJ FL DEP ROSS.GDT 10/29/08

SIEVE ANALYSIS AMI\_2008\_VIBRACORES\_ALL.GPJ FL DEP ROSS.GDT 10/29/08



|        |      |        |        |      |               |
|--------|------|--------|--------|------|---------------|
| Gravel |      | Sand   |        |      | Silt and Clay |
| Coarse | Fine | Coarse | Medium | Fine |               |

| Sample                                                                              | Symbol | Elev. (ft) | USCS | % Fines<br>#200 - 1.49<br>#230 - 1.48 | % Organics | % Carbonates                                                                                                                 | Median | Mean | Skew | Kurt | Sort | Sample Information |                      |
|-------------------------------------------------------------------------------------|--------|------------|------|---------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------|--------|------|------|------|------|--------------------|----------------------|
| AMVC-08-10 #3                                                                       | —●—    | -20.7      | SW   |                                       |            | 17                                                                                                                           | 2.57   | 2.14 | -2.2 | 7.13 | 1.25 | Project Name:      | AMI 2008 Sand Search |
| Comments:                                                                           |        |            |      |                                       |            |                                                                                                                              |        |      |      |      |      | Analysis Date:     | 07-07-08             |
| Depths and elevations based on measured values                                      |        |            |      |                                       |            |                                                                                                                              |        |      |      |      |      | Analyzed By:       | LH                   |
|  |        |            |      |                                       |            | 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):   | 411,957              |
|                                                                                     |        |            |      |                                       |            |                                                                                                                              |        |      |      |      |      | Northing (Y, ft):  | 1,156,109            |
|                                                                                     |        |            |      |                                       |            |                                                                                                                              |        |      |      |      |      | Horizontal System: | NAD 1983             |
|                                                                                     |        |            |      |                                       |            |                                                                                                                              |        |      |      |      |      | Vertical System:   | NAVD 88              |