

**Onshore Grab Sample**

**Sample:** ES-27-BB  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 3/30/11  
**Splits?** N/A

**County:** Escambia  
**Latitude:** 30° 20' 9.7" N  
**Longitude:** 87° 6' 45.9" W  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 48.425 grams  
Total Fines in Sample 0.026 grams  
Total Percent Fines 0.05 %

**Dry Sieving Summary**

Total Sample Weight 48.495 grams  
Total Digested Weight 65.263 grams  
Total Carbonate Weight -16.768 grams  
Total Silica % 134.58 %  
Total Carbonate % -34.58 %  
Carbonate/Silica Ratio -0.257

**General Comments:**

Not Enough Carbonate Material to do Post-Digestion Analysis

**Description**

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: ES-27-BB

Total Sample Mass: 48.495 grams

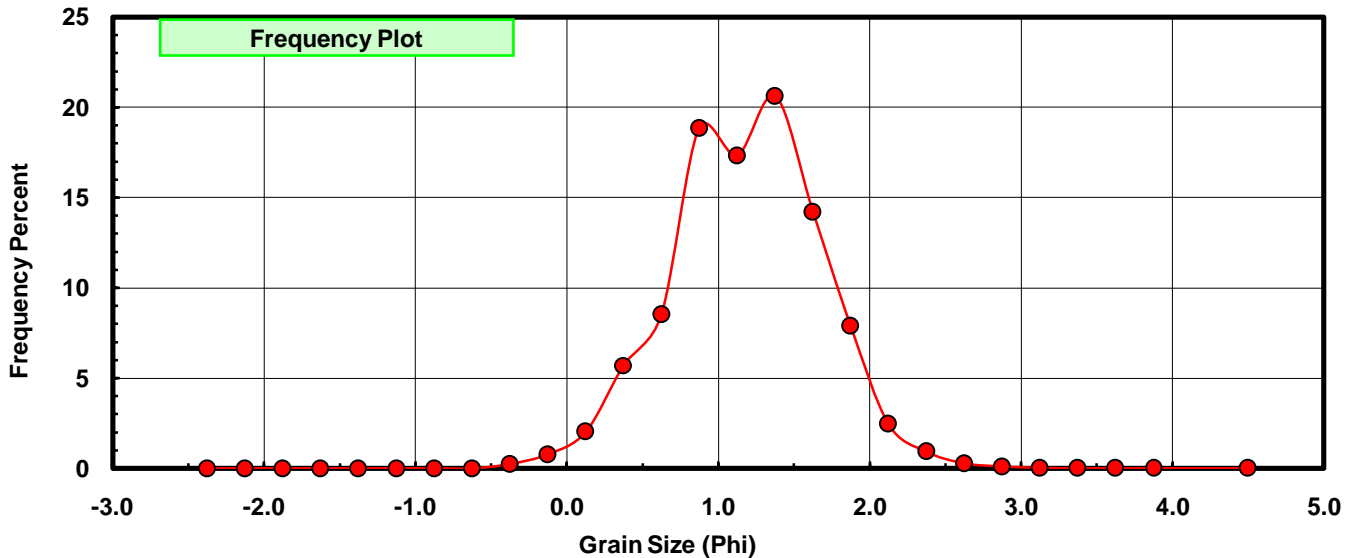
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.25            | -2.375            | 0.000          | 0.000         | 0.000               |
| -2.00            | -2.125            | 0.000          | 0.000         | 0.000               |
| -1.75            | -1.875            | 0.000          | 0.000         | 0.000               |
| -1.50            | -1.625            | 0.000          | 0.000         | 0.000               |
| -1.25            | -1.375            | 0.000          | 0.000         | 0.000               |
| -1.00            | -1.125            | 0.000          | 0.000         | 0.000               |
| -0.75            | -0.875            | 0.000          | 0.000         | 0.000               |
| -0.50            | -0.625            | 0.000          | 0.000         | 0.000               |
| -0.25            | -0.375            | 0.113          | 0.233         | 0.233               |
| 0.00             | -0.125            | 0.378          | 0.779         | 1.012               |
| 0.25             | 0.125             | 0.987          | 2.035         | 3.048               |
| 0.50             | 0.375             | 2.769          | 5.710         | 8.758               |
| 0.75             | 0.625             | 4.130          | 8.516         | 17.274              |
| 1.00             | 0.875             | 9.142          | 18.851        | 36.125              |
| 1.25             | 1.125             | 8.395          | 17.311        | 53.436              |
| 1.50             | 1.375             | 10.006         | 20.633        | 74.069              |
| 1.75             | 1.625             | 6.891          | 14.210        | 88.279              |
| 2.00             | 1.875             | 3.823          | 7.883         | 96.162              |
| 2.25             | 2.125             | 1.194          | 2.462         | 98.625              |
| 2.50             | 2.375             | 0.450          | 0.928         | 99.553              |
| 2.75             | 2.625             | 0.132          | 0.272         | 99.825              |
| 3.00             | 2.875             | 0.050          | 0.103         | 99.928              |
| 3.25             | 3.125             | 0.014          | 0.029         | 99.957              |
| 3.50             | 3.375             | 0.008          | 0.016         | 99.973              |
| 3.75             | 3.625             | 0.003          | 0.006         | 99.979              |
| 4.00             | 3.875             | 0.004          | 0.008         | 99.988              |
| 5.00             | 4.50              | 0.006          | 0.012         | 100.000             |

| Statistical Results |         |               |             |
|---------------------|---------|---------------|-------------|
| Mean:               | 1.1845  | phi           | (0.44 mm)   |
| Standard Dev:       | 0.5002  | phi-units     | (0.707 mm)  |
| Skewness:           | -0.0141 | dimensionless |             |
| Kurtosis:           | 3.3919  | dimensionless |             |
| 5th Moment:         | 2.1304  | dimensionless |             |
| 6th Moment:         | 30.2781 | dimensionless |             |
| RARD *              | 0.4223  | dimensionless |             |
| Median              | 1.0754  | phi           | (0.4745 mm) |

\* RARD = reciprocal absolute relative dispersion (see below)

| Statistical Explanation                           |  |
|---|--|
| Calculations based on the Method of Moments       |  |
| Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0 |  |
| Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0 |  |
| For Further Explanation, See Basille et al. 2002  |  |
| Millimeter data calculated by $mm = 2^{(-phi)}$   |  |

| Reciprocal Absolute Relative Dispersion (RARD) Scale |                                       |
|--|---------------------------------------|
| < 0.5  | Excellent homogeneity (e.g., beaches) |
| 0.5 to 1.0   | Good homogeneity                      |
| 1.0 to 1.33  | Fair homogeneity                      |
| > 1.33   | Poor homogeneity (e.g., glacial)      |



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