

Onshore Grab Sample

Sample: OA-10-MB
Sample Taken By: J. Ladner
Sample Collected On: 9/14/06
Splits? Yes

County: Okaloosa
Latitude: 30° 23' 47.74"
Longitude: 86° 39' 39.10"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 53.777 grams
Total Fines in Sample 0.041 grams
Total Percent Fines 0.08 %

Dry Sieving Summary

Total Sample Weight 53.731 grams
Total Digested Weight 53.673 grams
Total Carbonate Weight 0.058 grams
Total Silica % 99.89 %
Total Carbonate % 0.11 %
Carbonate/Silica Ratio 0.001

General Comments:

Original Weight (with Beaker): 360.696; Not enough Carbonate Material to run a Post-Digestion Analysis

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: OA-10-MB

Total Sample Mass: 53.731 grams

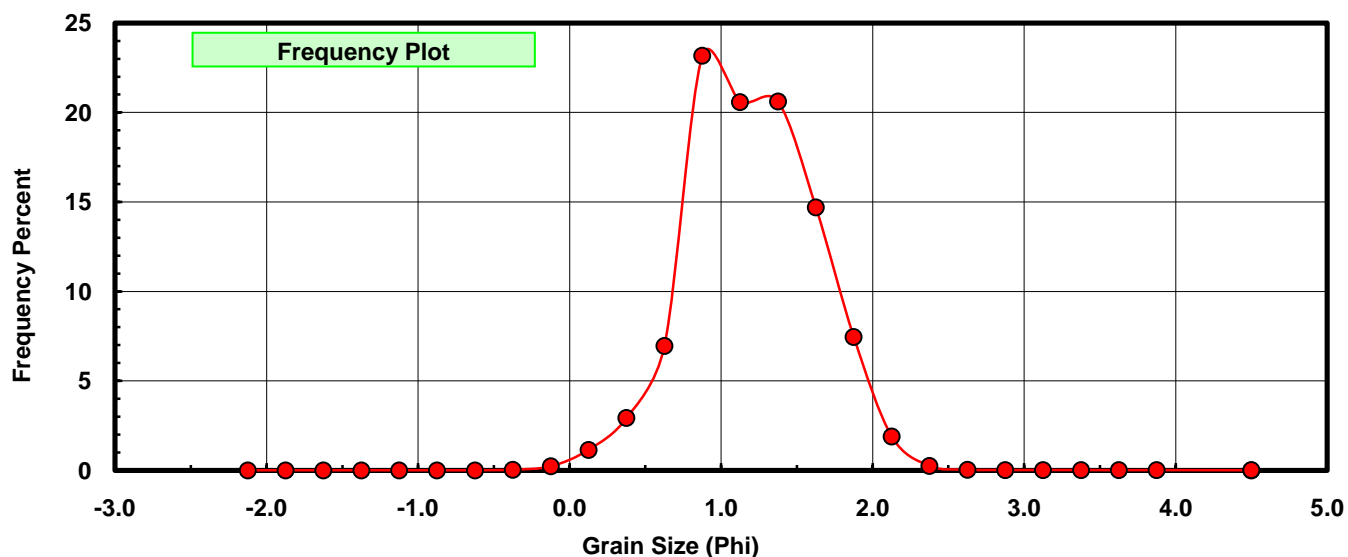
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.00 | -2.125 | 0.000 | 0.000 | 0.000 |
| -1.75 | -1.875 | 0.000 | 0.000 | 0.000 |
| -1.50 | -1.625 | 0.000 | 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 | 0.018 | 0.034 | 0.034 |
| 0.00 | -0.125 | 0.119 | 0.221 | 0.255 |
| 0.25 | 0.125 | 0.616 | 1.146 | 1.401 |
| 0.50 | 0.375 | 1.570 | 2.922 | 4.323 |
| 0.75 | 0.625 | 3.734 | 6.949 | 11.273 |
| 1.00 | 0.875 | 12.447 | 23.165 | 34.438 |
| 1.25 | 1.125 | 11.060 | 20.584 | 55.022 |
| 1.50 | 1.375 | 11.072 | 20.606 | 75.629 |
| 1.75 | 1.625 | 7.893 | 14.690 | 90.318 |
| 2.00 | 1.875 | 4.001 | 7.446 | 97.765 |
| 2.25 | 2.125 | 1.019 | 1.896 | 99.661 |
| 2.50 | 2.375 | 0.132 | 0.246 | 99.907 |
| 2.75 | 2.625 | 0.018 | 0.034 | 99.940 |
| 3.00 | 2.875 | 0.007 | 0.013 | 99.953 |
| 3.25 | 3.125 | 0.006 | 0.011 | 99.965 |
| 3.50 | 3.375 | 0.006 | 0.011 | 99.976 |
| 3.75 | 3.625 | 0.002 | 0.004 | 99.980 |
| 4.00 | 3.875 | 0.004 | 0.007 | 99.987 |
| 5.00 | 4.500 | 0.000 | 0.000 | 99.987 |
| 5.00 | 4.50 | 0.007 | 0.013 | 100.000 |

| Statistical Results | | | |
|---------------------|---------|---------------|-------------|
| Mean: | 1.2005 | phi | (0.4351 mm) |
| Standard Dev: | 0.4247 | phi-units | (0.745 mm) |
| Skewness: | 0.0775 | dimensionless | |
| Kurtosis: | 3.5680 | dimensionless | |
| 5th Moment: | 4.5600 | dimensionless | |
| 6th Moment: | 51.9524 | dimensionless | |
| RARD * | 0.3538 | dimensionless | |
| Median | 1.0640 | phi | (0.4783 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) |



OA-10-MB

