

Onshore Grab Sample

Sample: FK-45-BB
Sample Taken By: D. Phelps
Sample Collected On: 11/2/10
Splits? N/A

County: Franklin
Latitude: 29° 47' 13.2" N
Longitude: 84° 37' 59.4" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

| | |
|-----------------------|--------------|
| Total Sample Weight | 52.415 grams |
| Total Fines in Sample | 0.011 grams |
| Total Percent Fines | 0.02 % |

Dry Sieving Summary

| | |
|------------------------|--------------|
| Total Sample Weight | 52.250 grams |
| Total Digested Weight | 52.227 grams |
| Total Carbonate Weight | 0.023 grams |
| Total Silica % | 99.96 % |
| Total Carbonate % | 0.04 % |
| Carbonate/Silica Ratio | 0.000 |

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: FK-45-BB

Total Sample Mass: 52.250 grams

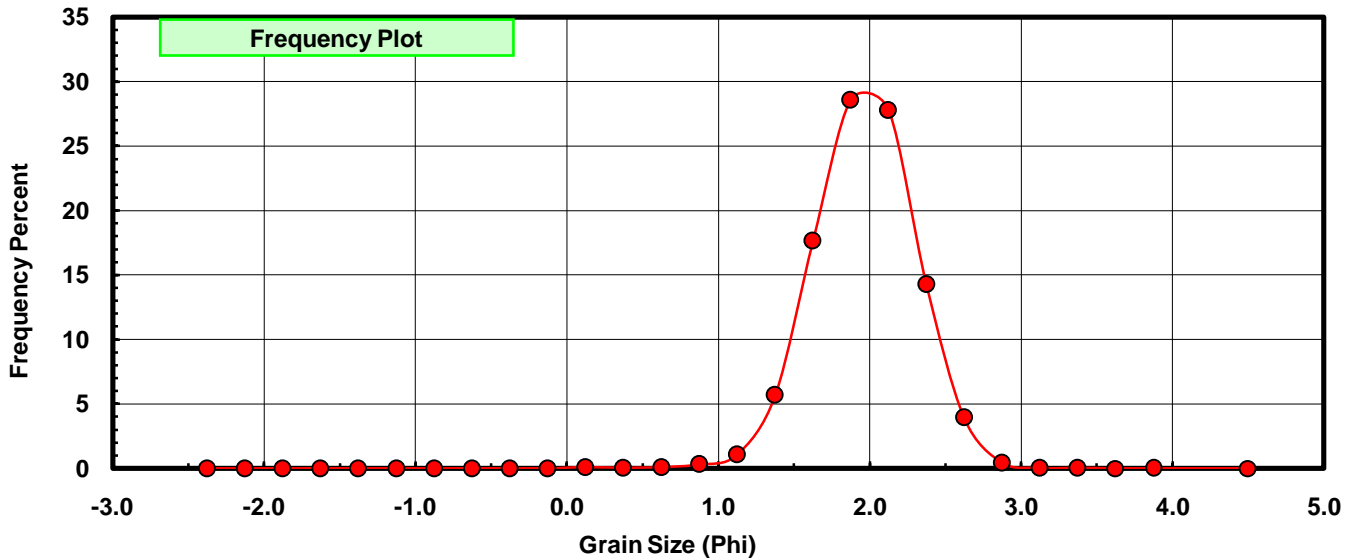
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.25 | -2.375 | 0.000 | 0.000 | 0.000 |
| -2.00 | -2.125 | 0.000 | 0.000 | 0.000 |
| -1.75 | -1.875 | 0.000 | 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 | 0.000 | 0.000 | 0.000 |
| 0.00 | -0.125 | 0.000 | 0.000 | 0.000 |
| 0.25 | 0.125 | 0.047 | 0.090 | 0.090 |
| 0.50 | 0.375 | 0.024 | 0.046 | 0.136 |
| 0.75 | 0.625 | 0.048 | 0.092 | 0.228 |
| 1.00 | 0.875 | 0.160 | 0.306 | 0.534 |
| 1.25 | 1.125 | 0.558 | 1.068 | 1.602 |
| 1.50 | 1.375 | 2.960 | 5.665 | 7.267 |
| 1.75 | 1.625 | 9.209 | 17.625 | 24.892 |
| 2.00 | 1.875 | 14.937 | 28.588 | 53.479 |
| 2.25 | 2.125 | 14.521 | 27.791 | 81.271 |
| 2.50 | 2.375 | 7.467 | 14.291 | 95.562 |
| 2.75 | 2.625 | 2.052 | 3.927 | 99.489 |
| 3.00 | 2.875 | 0.224 | 0.429 | 99.918 |
| 3.25 | 3.125 | 0.021 | 0.040 | 99.958 |
| 3.50 | 3.375 | 0.016 | 0.031 | 99.989 |
| 3.75 | 3.625 | 0.001 | 0.002 | 99.990 |
| 4.00 | 3.875 | 0.004 | 0.008 | 99.998 |
| 5.00 | 4.50 | 0.001 | 0.002 | 100.000 |

| Statistical Results | | | |
|---------------------|---------|---------------|-------------|
| Mean: | 1.9640 | phi | (0.2563 mm) |
| Standard Dev: | 0.3392 | phi-units | (0.7905 mm) |
| Skewness: | -0.2733 | dimensionless | |
| Kurtosis: | 4.1252 | dimensionless | |
| 5th Moment: | -5.7580 | dimensionless | |
| 6th Moment: | 52.2257 | dimensionless | |
| RARD * | 0.1727 | dimensionless | |
| Median | 1.8446 | phi | (0.2784 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) |



FK-45-BB

