

Onshore Grab Sample

Sample: FK-52
Sample Taken By: D. Phelps
Sample Collected On: 12/8/10
Splits? N/A

County: Franklin
Latitude: 29° 55' 14.7" N
Longitude: 84° 28' 36.7" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 54.717 grams
Total Fines in Sample 0.088 grams
Total Percent Fines 0.16 %

Dry Sieving Summary

Total Sample Weight 54.613 grams
Total Digested Weight 54.572 grams
Total Carbonate Weight 0.041 grams
Total Silica % 99.92 %
Total Carbonate % 0.08 %
Carbonate/Silica Ratio 0.001

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-52

Total Sample Mass: 54.613 grams

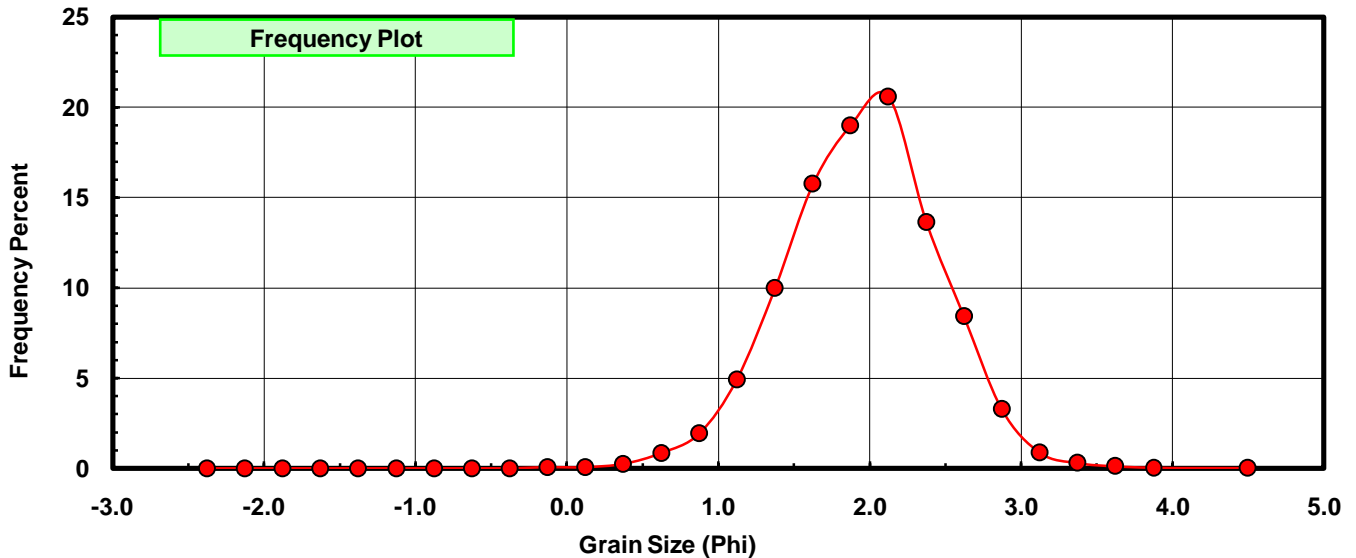
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.25 | -2.375 | 0.000 | 0.000 | 0.000 |
| -2.00 | -2.125 | 0.000 | 0.000 | 0.000 |
| -1.75 | -1.875 | 0.000 | 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 | 0.033 | 0.060 | 0.060 |
| 0.25 | 0.125 | 0.030 | 0.055 | 0.115 |
| 0.50 | 0.375 | 0.132 | 0.242 | 0.357 |
| 0.75 | 0.625 | 0.463 | 0.848 | 1.205 |
| 1.00 | 0.875 | 1.050 | 1.923 | 3.127 |
| 1.25 | 1.125 | 2.684 | 4.915 | 8.042 |
| 1.50 | 1.375 | 5.456 | 9.990 | 18.032 |
| 1.75 | 1.625 | 8.603 | 15.753 | 33.785 |
| 2.00 | 1.875 | 10.378 | 19.003 | 52.788 |
| 2.25 | 2.125 | 11.242 | 20.585 | 73.373 |
| 2.50 | 2.375 | 7.452 | 13.645 | 87.018 |
| 2.75 | 2.625 | 4.593 | 8.410 | 95.428 |
| 3.00 | 2.875 | 1.783 | 3.265 | 98.693 |
| 3.25 | 3.125 | 0.470 | 0.861 | 99.553 |
| 3.50 | 3.375 | 0.163 | 0.298 | 99.852 |
| 3.75 | 3.625 | 0.064 | 0.117 | 99.969 |
| 4.00 | 3.875 | 0.012 | 0.022 | 99.991 |
| 5.00 | 4.50 | 0.005 | 0.009 | 100.000 |

| Statistical Results | | | |
|---------------------|---------|---------------|-------------|
| Mean: | 1.9466 | phi | (0.2594 mm) |
| Standard Dev: | 0.5062 | phi-units | (0.7041 mm) |
| Skewness: | -0.1319 | dimensionless | |
| Kurtosis: | 3.2581 | dimensionless | |
| 5th Moment: | -1.1731 | dimensionless | |
| 6th Moment: | 20.4960 | dimensionless | |
| RARD * | 0.2600 | dimensionless | |
| Median | 1.8383 | phi | (0.2796 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-52

