

**Onshore Grab Sample**

**Sample:** FK-37-BB  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 10/11/10  
**Splits?** N/A

**County:** Franklin  
**Latitude:** 29° 43' 19.3" N  
**Longitude:** 84° 44' 24.7" W  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 55.89 grams  
Total Fines in Sample 0.013 grams  
Total Percent Fines 0.02 %

**Dry Sieving Summary**

Total Sample Weight 55.704 grams  
Total Digested Weight 55.600 grams  
Total Carbonate Weight 0.104 grams  
Total Silica % 99.81 %  
Total Carbonate % 0.19 %  
Carbonate/Silica Ratio 0.002

**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-37-BB

Total Sample Mass: 55.704 grams

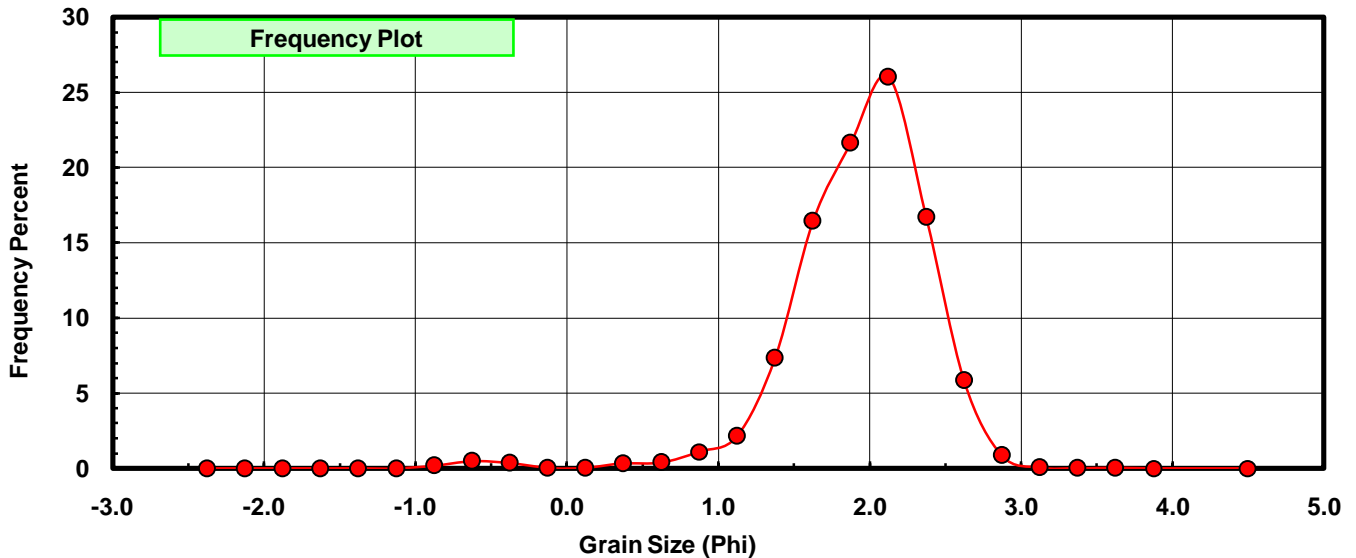
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.25            | -2.375            | 0.000          | 0.000         | 0.000               |
| -2.00            | -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            | 0.107          | 0.192         | 0.192               |
| -0.50            | -0.625            | 0.265          | 0.476         | 0.668               |
| -0.25            | -0.375            | 0.198          | 0.355         | 1.023               |
| 0.00             | -0.125            | 0.017          | 0.031         | 1.054               |
| 0.25             | 0.125             | 0.021          | 0.038         | 1.091               |
| 0.50             | 0.375             | 0.183          | 0.329         | 1.420               |
| 0.75             | 0.625             | 0.218          | 0.391         | 1.811               |
| 1.00             | 0.875             | 0.617          | 1.108         | 2.919               |
| 1.25             | 1.125             | 1.191          | 2.138         | 5.057               |
| 1.50             | 1.375             | 4.091          | 7.344         | 12.401              |
| 1.75             | 1.625             | 9.152          | 16.430        | 28.831              |
| 2.00             | 1.875             | 12.047         | 21.627        | 50.458              |
| 2.25             | 2.125             | 14.496         | 26.023        | 76.481              |
| 2.50             | 2.375             | 9.296          | 16.688        | 93.169              |
| 2.75             | 2.625             | 3.253          | 5.840         | 99.009              |
| 3.00             | 2.875             | 0.486          | 0.872         | 99.882              |
| 3.25             | 3.125             | 0.031          | 0.056         | 99.937              |
| 3.50             | 3.375             | 0.009          | 0.016         | 99.953              |
| 3.75             | 3.625             | 0.024          | 0.043         | 99.996              |
| 4.00             | 3.875             | 0.001          | 0.002         | 99.998              |
| 5.00             | 4.50              | 0.001          | 0.002         | 100.000             |

| Statistical Results |          |               |             |
|---------------------|----------|---------------|-------------|
| Mean:               | 1.9366   | phi           | (0.2612 mm) |
| Standard Dev:       | 0.4822   | phi-units     | (0.7159 mm) |
| Skewness:           | -1.7213  | dimensionless |             |
| Kurtosis:           | 10.0167  | dimensionless |             |
| 5th Moment:         | -45.2730 | dimensionless |             |
| 6th Moment:         | 242.6277 | dimensionless |             |
| RARD *              | 0.2490   | dimensionless |             |
| Median              | 1.8697   | phi           | (0.2736 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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