

## **Onshore Grab Sample**

**Sample:** FK-64  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 12/8/10  
**Splits?** N/A

**County:** Franklin  
**Latitude:** 29° 56' 4.9" N  
**Longitude:** 84° 20' 6.4" W  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

### **Fine Data Summary**

|                       |              |
|-----------------------|--------------|
| Total Sample Weight   | 59.517 grams |
| Total Fines in Sample | 0.244 grams  |
| Total Percent Fines   | 0.41 %       |

### **Dry Sieving Summary**

|                        |              |
|------------------------|--------------|
| Total Sample Weight    | 59.396 grams |
| Total Digested Weight  | 59.234 grams |
| Total Carbonate Weight | 0.162 grams  |
| Total Silica %         | 99.73 %      |
| Total Carbonate %      | 0.27 %       |
| Carbonate/Silica Ratio | 0.003        |

### **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-64

Total Sample Mass: 59.396 grams

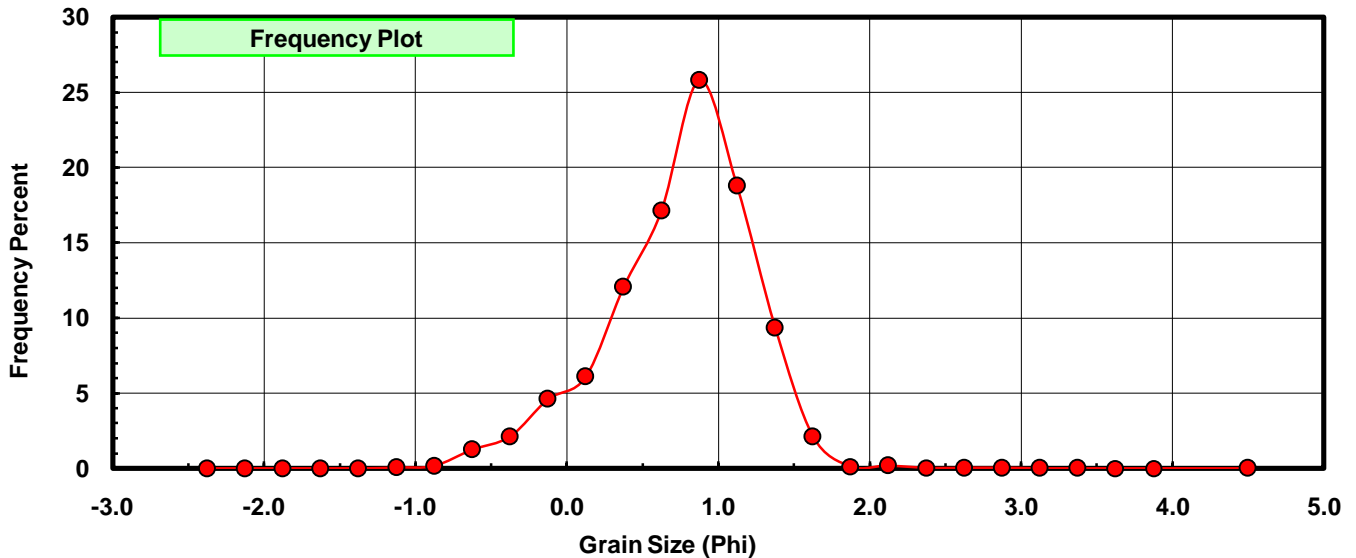
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.25            | -2.375            | 0.000          | 0.000         | 0.000               |
| -2.00            | -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            | 0.033          | 0.056         | 0.056               |
| -0.75            | -0.875            | 0.093          | 0.157         | 0.212               |
| -0.50            | -0.625            | 0.745          | 1.254         | 1.466               |
| -0.25            | -0.375            | 1.262          | 2.125         | 3.591               |
| 0.00             | -0.125            | 2.737          | 4.608         | 8.199               |
| 0.25             | 0.125             | 3.625          | 6.103         | 14.302              |
| 0.50             | 0.375             | 7.162          | 12.058        | 26.360              |
| 0.75             | 0.625             | 10.162         | 17.109        | 43.469              |
| 1.00             | 0.875             | 15.319         | 25.791        | 69.261              |
| 1.25             | 1.125             | 11.170         | 18.806        | 88.067              |
| 1.50             | 1.375             | 5.552          | 9.347         | 97.414              |
| 1.75             | 1.625             | 1.264          | 2.128         | 99.542              |
| 2.00             | 1.875             | 0.077          | 0.130         | 99.672              |
| 2.25             | 2.125             | 0.108          | 0.182         | 99.854              |
| 2.50             | 2.375             | 0.026          | 0.044         | 99.897              |
| 2.75             | 2.625             | 0.021          | 0.035         | 99.933              |
| 3.00             | 2.875             | 0.019          | 0.032         | 99.965              |
| 3.25             | 3.125             | 0.010          | 0.017         | 99.981              |
| 3.50             | 3.375             | 0.004          | 0.007         | 99.988              |
| 3.75             | 3.625             | 0.001          | 0.002         | 99.990              |
| 4.00             | 3.875             | 0.001          | 0.002         | 99.992              |
| 5.00             | 4.50              | 0.005          | 0.008         | 100.000             |

| Statistical Results |         |               |             |
|---------------------|---------|---------------|-------------|
| Mean:               | 0.7470  | phi           | (0.5958 mm) |
| Standard Dev:       | 0.4842  | phi-units     | (0.7149 mm) |
| Skewness:           | -0.4788 | dimensionless |             |
| Kurtosis:           | 3.9910  | dimensionless |             |
| 5th Moment:         | -0.2401 | dimensionless |             |
| 6th Moment:         | 47.3567 | dimensionless |             |
| RARD *              | 0.6482  | dimensionless |             |
| Median              | 0.6883  | phi           | (0.6206 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-64

