Onshore Grab Sample

Sample: FK-02-BB
Sample Taken By: D. Phelps
Sample Collected On: 9/1/10
Splits? N/A

County: Franklin
Latitude: 29° 40' 24.4" N
Longitude: 85° 12' 22.2" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	65.323	grams
Total Fines in Sample	0.043	grams
Total Percent Fines	0.07	%

Dry Sieving Summary

Total Sample Weight	65.167	grams
Total Digested Weight	63.017	grams
Total Carbonate Weight	2.150	grams
Total Silica %	96.70	%
Total Carbonate %	3.30	%
Carbonate/Silica Ratio	0.034	

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-02-BB

Total Sample Mass: 65.167 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.627	0.962	0.962
-2.00	-2.125	0.000	0.000	0.962
-1.75	-1.875	0.000	0.000	0.962
-1.50	-1.625	0.023	0.035	0.997
-1.25	-1.375	0.070	0.107	1.105
-1.00	-1.125	1.233	1.892	2.997
-0.75	-0.875	0.010	0.015	3.012
-0.50	-0.625	3.530	5.417	8.429
-0.25	-0.375	1.781	2.733	11.162
0.00	-0.125	0.098	0.150	11.312
0.25	0.125	0.009	0.014	11.326
0.50	0.375	2.135	3.276	14.602
0.75	0.625	0.028	0.043	14.645
1.00	0.875	1.029	1.579	16.224
1.25	1.125	0.036	0.055	16.280
1.50	1.375	0.157	0.241	16.521
1.75	1.625	0.679	1.042	17.563
2.00	1.875	2.212	3.394	20.957
2.25	2.125	8.413	12.910	33.867
2.50	2.375	15.773	24.204	58.071
2.75	2.625	17.766	27.262	85.333
3.00	2.875	7.436	11.411	96.744
3.25	3.125	1.506	2.311	99.055
3.50	3.375	0.430	0.660	99.715
3.75	3.625	0.137	0.210	99.925
4.00	3.875	0.045	0.069	99.994
5.00	4.50	0.004	0.006	100.000

Statistical Results			
Mean:	2.0182	phi	(0.2469 mm)
Standard Dev:	1.1544	phi-units	(0.4493 mm)
Skewness:	-1.8638	dimensionless	
Kurtosis:	5.5323	dimensionless	
5th Moment:	-15.7234	dimensionless	
6th Moment:	49.2049	dimensionless	
RARD *	0.5720	dimensionless	
Median	2.2916	phi	(0.2042 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

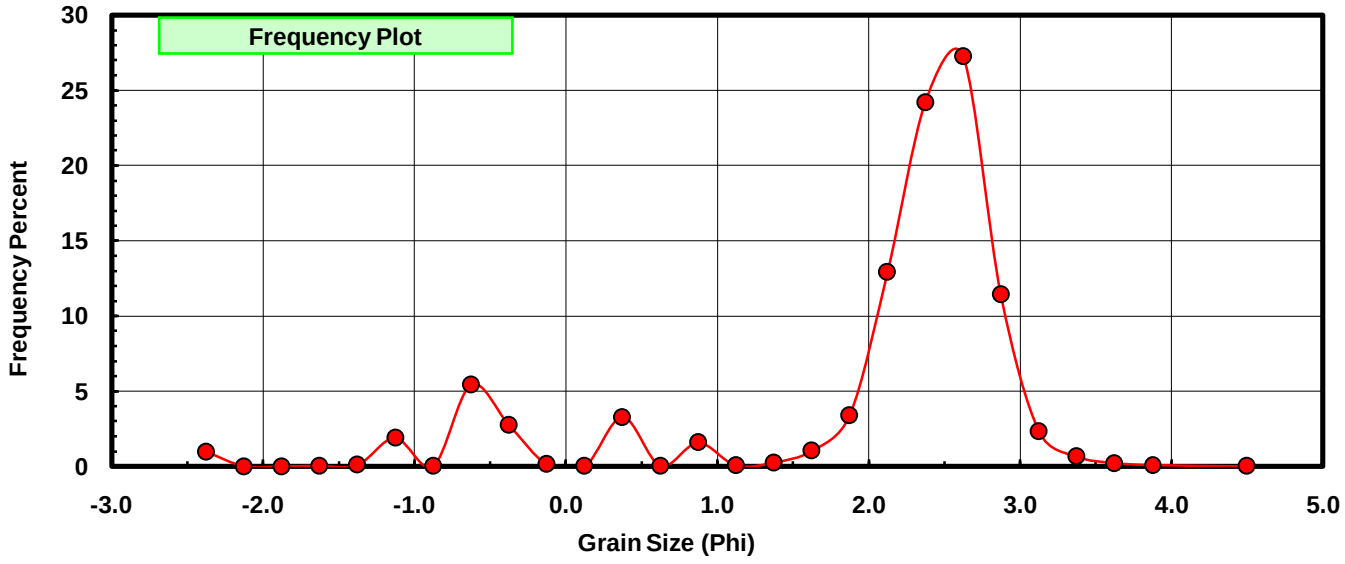
Statistical Explanation

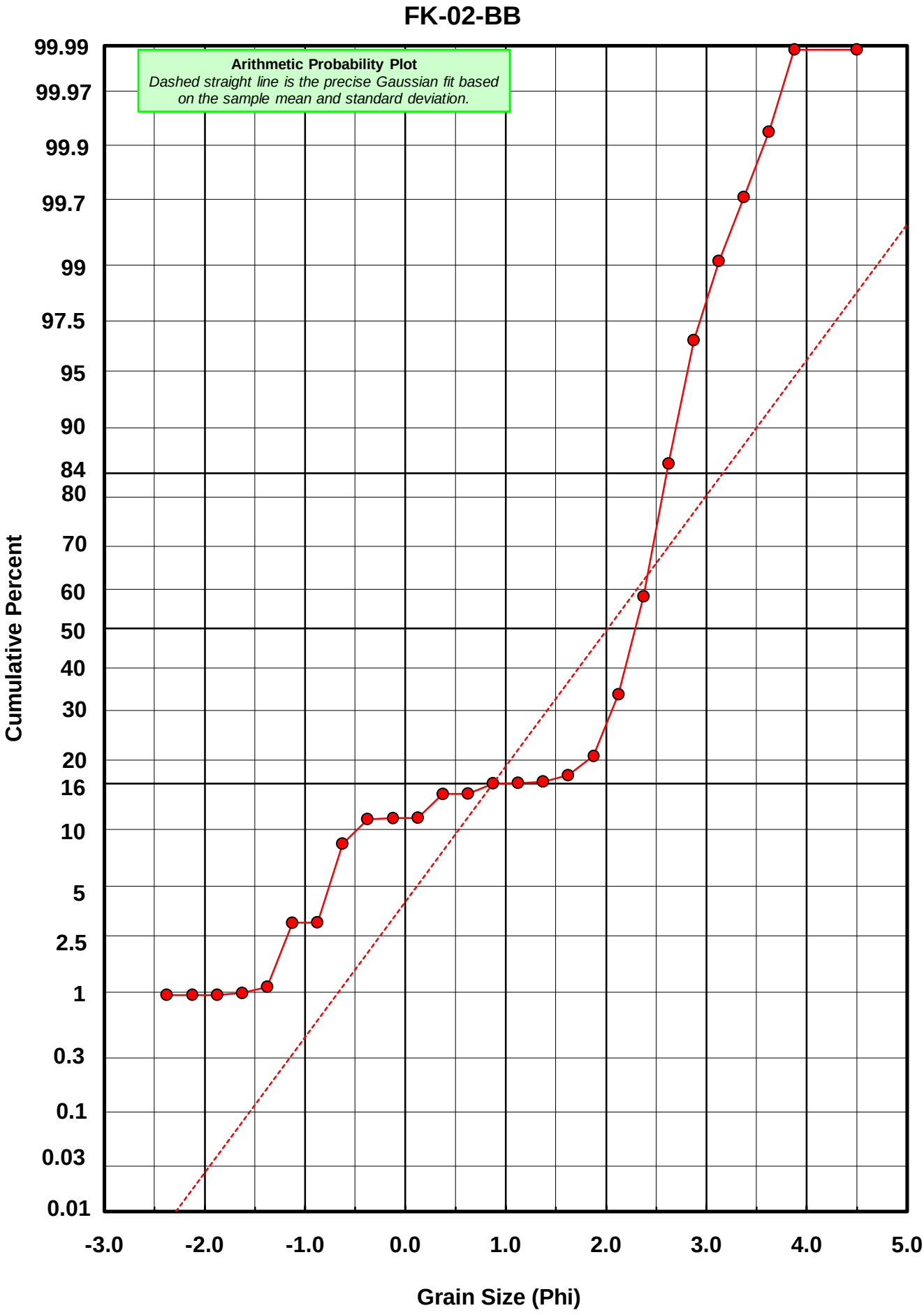
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

For Further Explanation, See Basillle 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-02-BB
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)