Onshore Grab Sample

Sample: FK-09-BB
Sample Taken By: D. Phelps
Sample Collected On: 9/1/10
Splits? N/A

County: Franklin
Latitude: 29° 37' 50.2" N
Longitude: 85° 6' 41.8" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	68.457	grams
Total Fines in Sample	0.012	grams
Total Percent Fines	0.02	%

Dry Sieving Summary

Total Sample Weight	68.462	grams
Total Digested Weight	67.800	grams
Total Carbonate Weight	0.662	grams
Total Silica %	99.03	%
Total Carbonate %	0.97	%
Carbonate/Silica Ratio	0.010	

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-09-BB

Total Sample Mass: 68.462 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.361	0.527	0.527
-2.00	-2.125	0.012	0.018	0.545
-1.75	-1.875	0.019	0.028	0.573
-1.50	-1.625	0.021	0.031	0.603
-1.25	-1.375	0.014	0.020	0.624
-1.00	-1.125	1.369	2.000	2.623
-0.75	-0.875	0.020	0.029	2.653
-0.50	-0.625	2.746	4.011	6.664
-0.25	-0.375	0.876	1.280	7.943
0.00	-0.125	0.034	0.050	7.993
0.25	0.125	0.031	0.045	8.038
0.50	0.375	1.399	2.043	10.082
0.75	0.625	0.033	0.048	10.130
1.00	0.875	0.037	0.054	10.184
1.25	1.125	0.071	0.104	10.287
1.50	1.375	0.337	0.492	10.780
1.75	1.625	2.168	3.167	13.946
2.00	1.875	6.526	9.532	23.479
2.25	2.125	14.607	21.336	44.815
2.50	2.375	18.049	26.364	71.178
2.75	2.625	13.699	20.010	91.188
3.00	2.875	5.001	7.305	98.493
3.25	3.125	0.842	1.230	99.722
3.50	3.375	0.122	0.178	99.901
3.75	3.625	0.051	0.074	99.975
4.00	3.875	0.013	0.019	99.994
5.00	4.50	0.004	0.006	100.000

Statistical Results			
Mean:	2.0427	phi	(0.2427 mm)
Standard Dev:	0.9680	phi-units	(0.5112 mm)
Skewness:	-2.3344	dimensionless	
Kurtosis:	8.0750	dimensionless	
5th Moment:	-27.2012	dimensionless	
6th Moment:	98.9189	dimensionless	
RARD *	0.4739	dimensionless	
Median	2.1742	phi	(0.2216 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

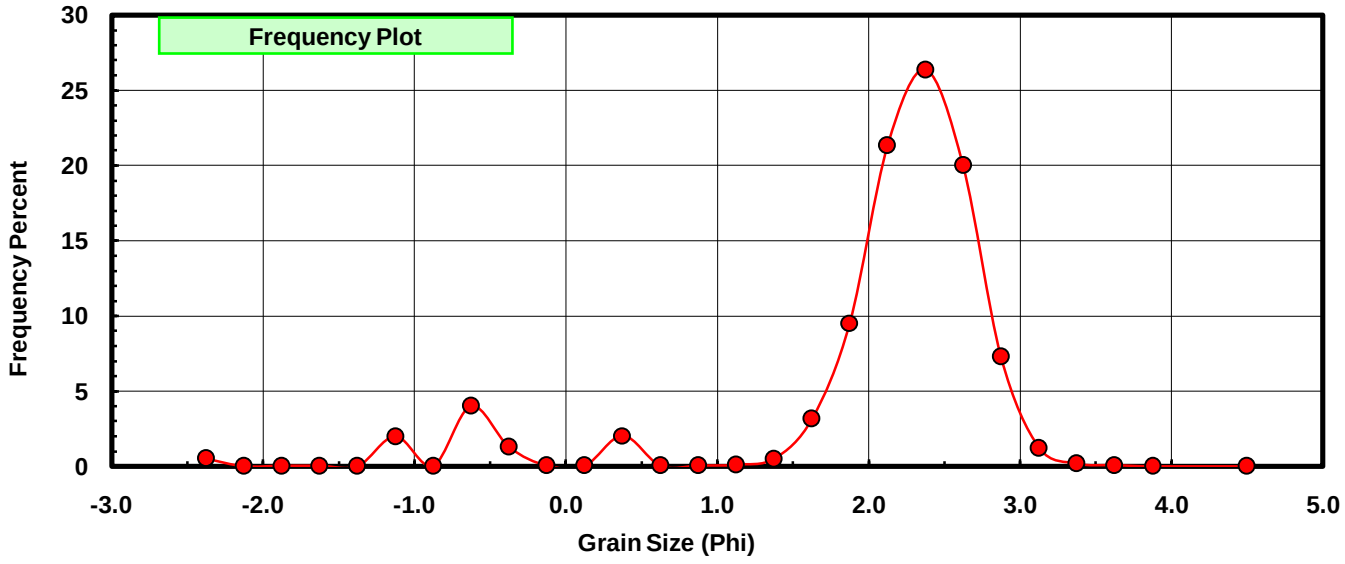
Statistical Explanation

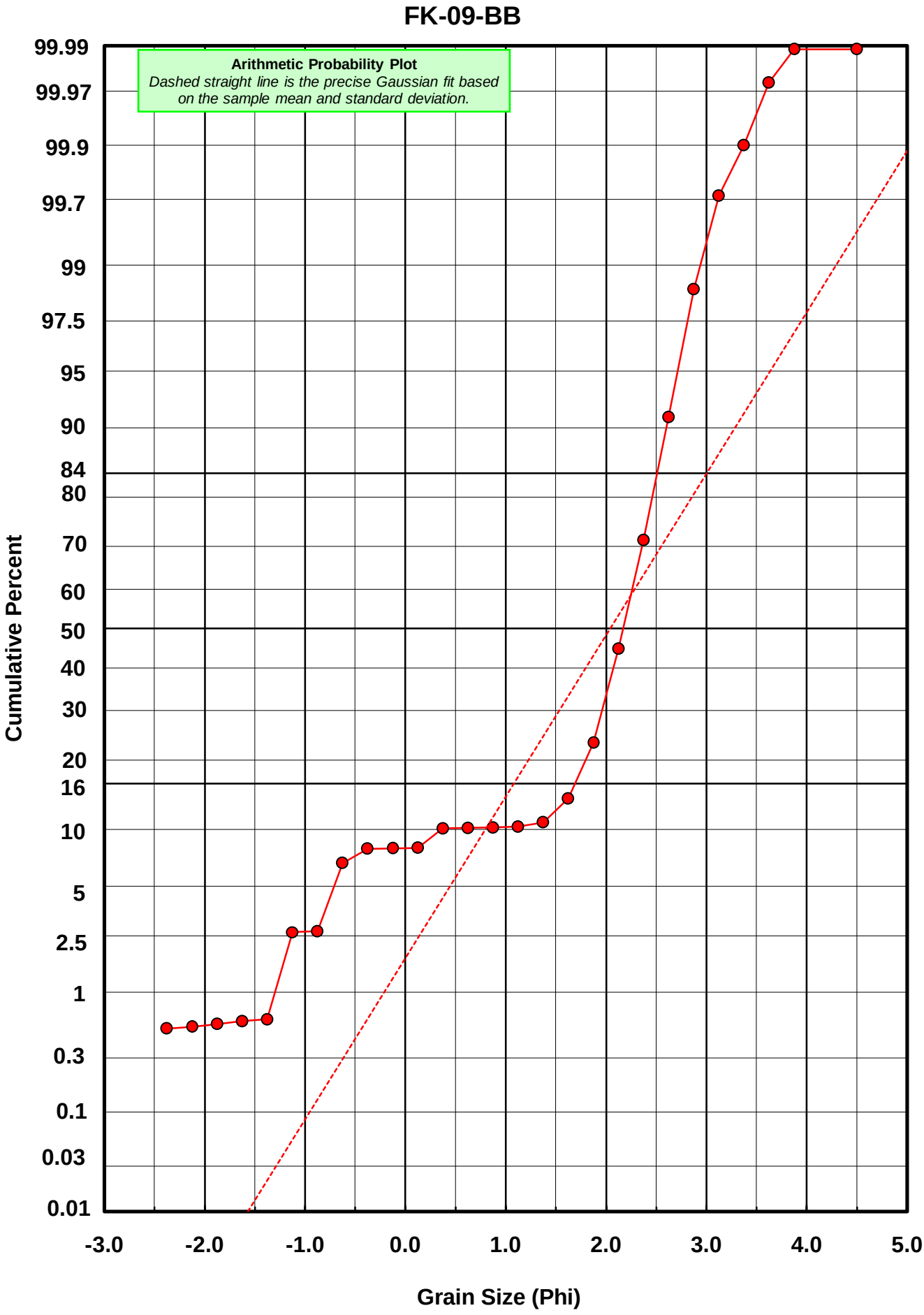
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-09-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)