Onshore Grab Sample

Sample: FK-25-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/11/10
Splits? N/A

County: Franklin
Latitude: 29° 38' 14.2" N
Longitude: 84° 54' 44.9" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	51.887	grams
Total Fines in Sample	0.024	grams
Total Percent Fines	0.05	%

Dry Sieving Summary

Total Sample Weight	51.969	grams
Total Digested Weight	51.633	grams
Total Carbonate Weight	0.336	grams
Total Silica %	99.35	%
Total Carbonate %	0.65	%
Carbonate/Silica Ratio	0.007	

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-25-BB

Total Sample Mass: 51.969 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	0.125	0.241	0.241
-0.75	-0.875	0.043	0.083	0.323
-0.50	-0.625	0.276	0.531	0.854
-0.25	-0.375	0.137	0.264	1.118
0.00	-0.125	0.015	0.029	1.147
0.25	0.125	0.036	0.069	1.216
0.50	0.375	0.164	0.316	1.532
0.75	0.625	0.209	0.402	1.934
1.00	0.875	0.998	1.920	3.854
1.25	1.125	2.715	5.224	9.078
1.50	1.375	8.418	16.198	25.277
1.75	1.625	12.752	24.538	49.814
2.00	1.875	12.449	23.955	73.769
2.25	2.125	9.004	17.326	91.095
2.50	2.375	3.520	6.773	97.868
2.75	2.625	0.836	1.609	99.477
3.00	2.875	0.138	0.266	99.742
3.25	3.125	0.039	0.075	99.817
3.50	3.375	0.086	0.165	99.983
3.75	3.625	0.004	0.008	99.990
4.00	3.875	0.004	0.008	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	1.7297	phi	(0.3015 mm)
Standard Dev:	0.4730	phi-units	(0.7205 mm)
Skewness:	-1.5147	dimensionless	
Kurtosis:	10.3250	dimensionless	
5th Moment:	-44.8160	dimensionless	
6th Moment:	257.8739	dimensionless	
RARD *	0.2735	dimensionless	
Median	1.6269	phi	(0.3238 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

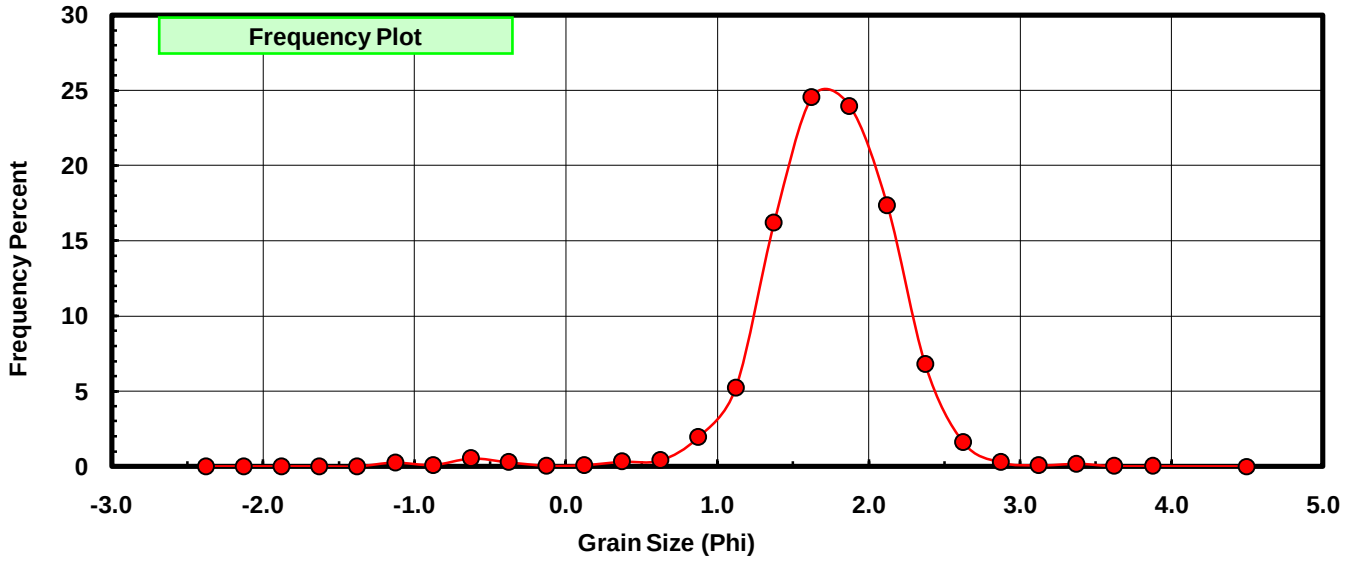
Statistical Explanation

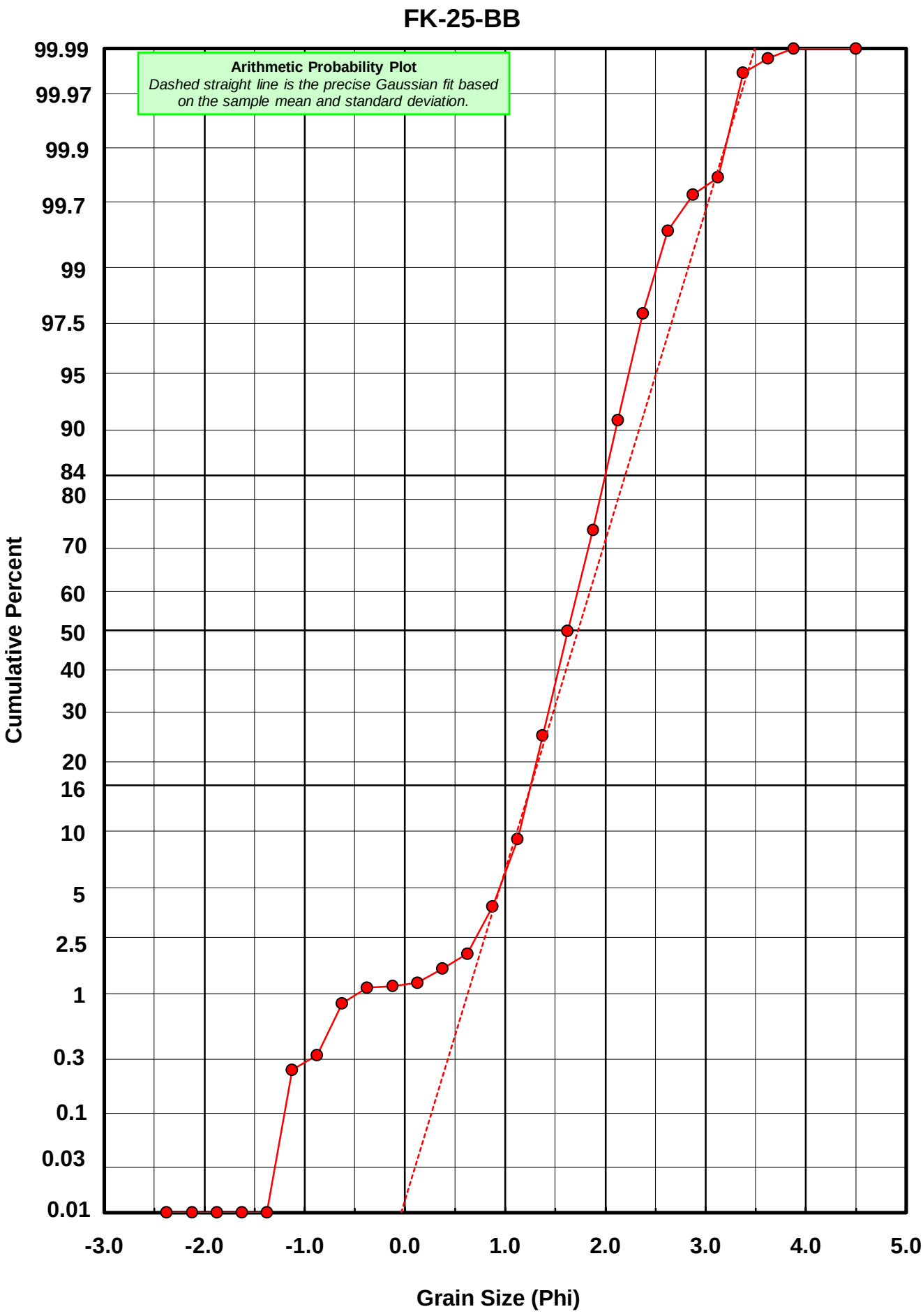
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-25-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)