Onshore Grab Sample

Sample: FK-53
Sample Taken By: D. Phelps
Sample Collected On: 12/8/10
Splits? N/A

County: Franklin
Latitude: 29° 55' 39.2" N
Longitude: 84° 27' 37.1" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	67.647	grams
Total Fines in Sample	0.095	grams
Total Percent Fines	0.14	%

Dry Sieving Summary

Total Sample Weight	67.785	grams
Total Digested Weight	67.493	grams
Total Carbonate Weight	0.292	grams
Total Silica %	99.57	%
Total Carbonate %	0.43	%
Carbonate/Silica Ratio	0.004	

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-53

Total Sample Mass: 67.785 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	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.057	0.084	0.084
0.00	-0.125	0.123	0.181	0.266
0.25	0.125	0.226	0.333	0.599
0.50	0.375	0.676	0.997	1.596
0.75	0.625	1.360	2.006	3.603
1.00	0.875	2.767	4.082	7.685
1.25	1.125	4.939	7.286	14.971
1.50	1.375	9.970	14.708	29.679
1.75	1.625	15.825	23.346	53.025
2.00	1.875	14.312	21.114	74.139
2.25	2.125	10.484	15.467	89.605
2.50	2.375	4.644	6.851	96.456
2.75	2.625	1.692	2.496	98.953
3.00	2.875	0.512	0.755	99.708
3.25	3.125	0.122	0.180	99.888
3.50	3.375	0.051	0.075	99.963
3.75	3.625	0.015	0.022	99.985
4.00	3.875	0.006	0.009	99.994
5.00	4.50	0.004	0.006	100.000

Statistical Results			
Mean:	1.6995	phi	(0.3079 mm)
Standard Dev:	0.4855	phi-units	(0.7143 mm)
Skewness:	-0.3785	dimensionless	
Kurtosis:	3.9525	dimensionless	
5th Moment:	-3.9408	dimensionless	
6th Moment:	31.7055	dimensionless	
RARD *	0.2857	dimensionless	
Median	1.5926	phi	(0.3316 mm)

* RARD = reciprocal absolute relative dispersion (see below)

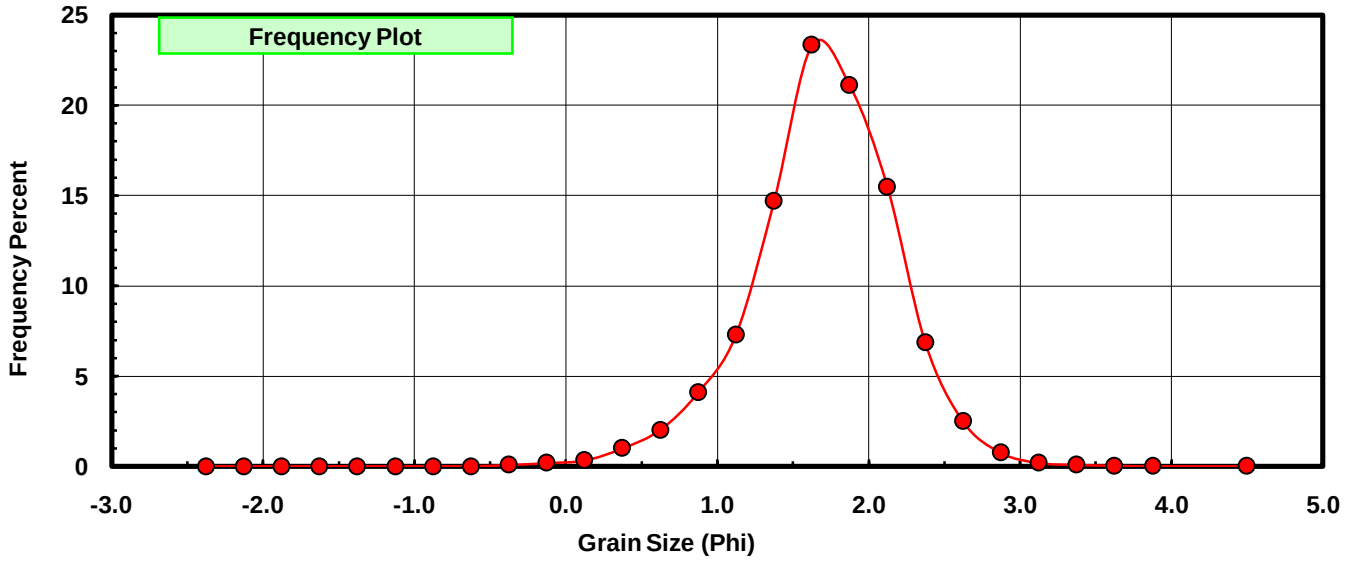
Statistical Explanation

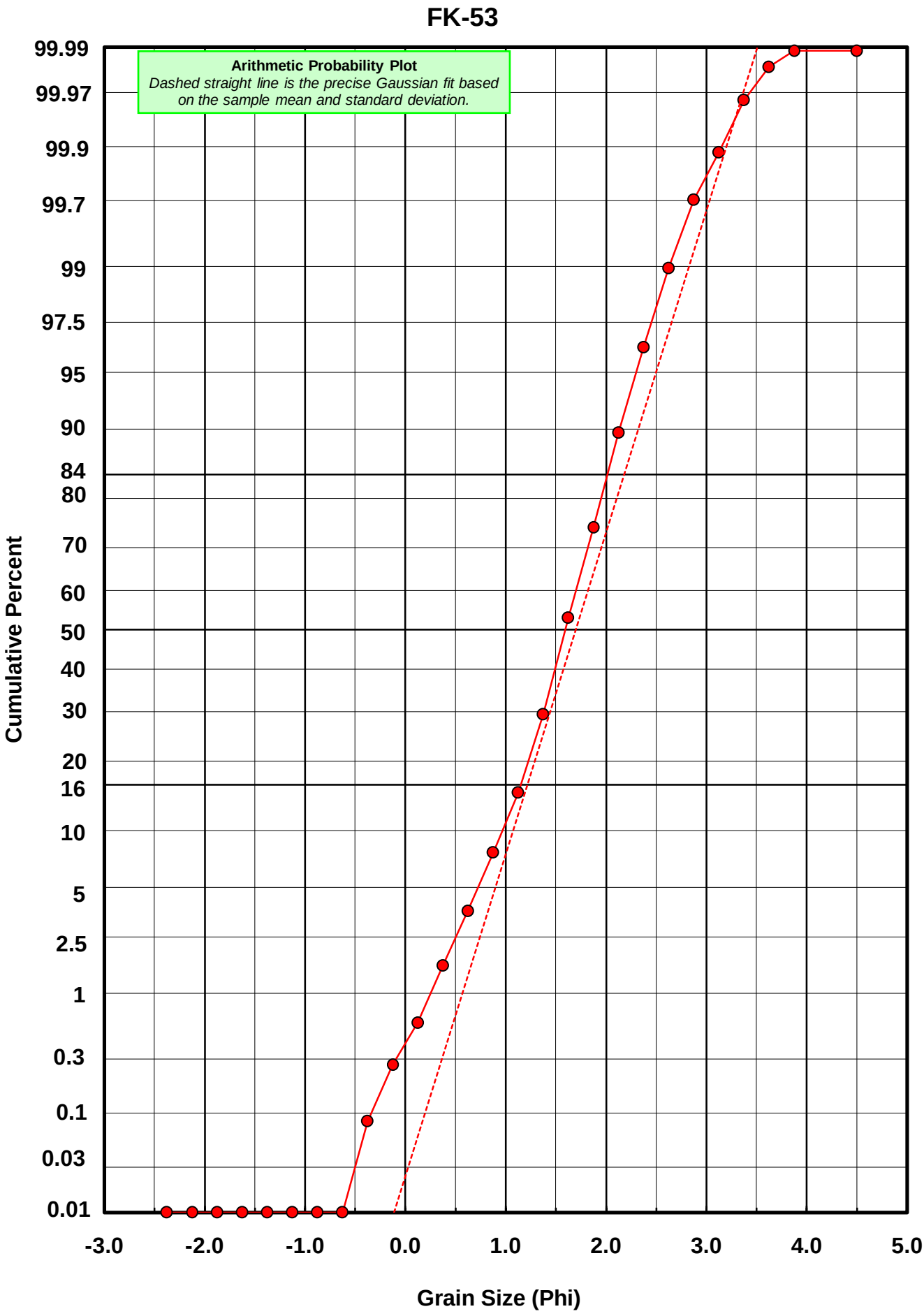
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-53
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)