Onshore Grab Sample

Sample: PB-45-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/8/09
Splits? N/A

County: Palm Beach
Latitude: 26° 19' 42.9"
Longitude: 80° 04' 24.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	62.16	grams
Total Fines in Sample	0.055	grams
Total Percent Fines	0.09	%

Dry Sieving Summary

Total Sample Weight	62.115	grams
Total Digested Weight	21.127	grams
Total Carbonate Weight	40.988	grams
Total Silica %	34.01	%
Total Carbonate %	65.99	%
Carbonate/Silica Ratio	1.940	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PB-45-BB

Total Sample Mass: 62.115 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	0.113	0.182	0.182
-1.50	-1.625	0.000	0.000	0.182
-1.25	-1.375	0.074	0.119	0.301
-1.00	-1.125	0.051	0.082	0.383
-0.75	-0.875	0.169	0.272	0.655
-0.50	-0.625	0.495	0.797	1.452
-0.25	-0.375	1.192	1.919	3.371
0.00	-0.125	2.499	4.023	7.394
0.25	0.125	4.445	7.156	14.550
0.50	0.375	5.887	9.478	24.028
0.75	0.625	6.881	11.078	35.106
1.00	0.875	11.346	18.266	53.372
1.25	1.125	7.079	11.397	64.769
1.50	1.375	8.939	14.391	79.160
1.75	1.625	5.748	9.254	88.413
2.00	1.875	4.348	7.000	95.413
2.25	2.125	1.886	3.036	98.450
2.50	2.375	0.631	1.016	99.466
2.75	2.625	0.216	0.348	99.813
3.00	2.875	0.077	0.124	99.937
3.25	3.125	0.021	0.034	99.971
3.50	3.375	0.012	0.019	99.990
3.75	3.625	0.003	0.005	99.995
4.00	3.875	0.001	0.002	99.997
5.00	4.50	0.002	0.003	100.000

Statistical Results			
Mean:	0.9591	phi	(0.5144 mm)
Standard Dev:	0.6674	phi-units	(0.6296 mm)
Skewness:	-0.2439	dimensionless	
Kurtosis:	3.3172	dimensionless	
5th Moment:	-3.3922	dimensionless	
6th Moment:	24.6299	dimensionless	
RARD *	0.6958	dimensionless	
Median	0.8288	phi	(0.563 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

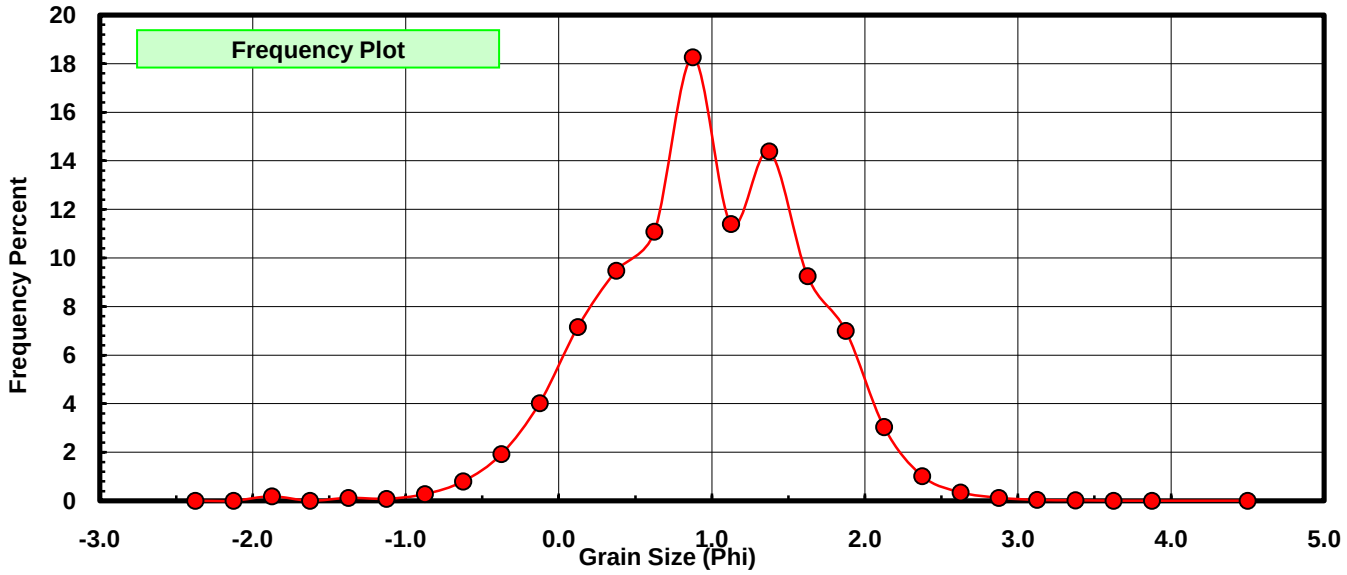
Statistical Explanation

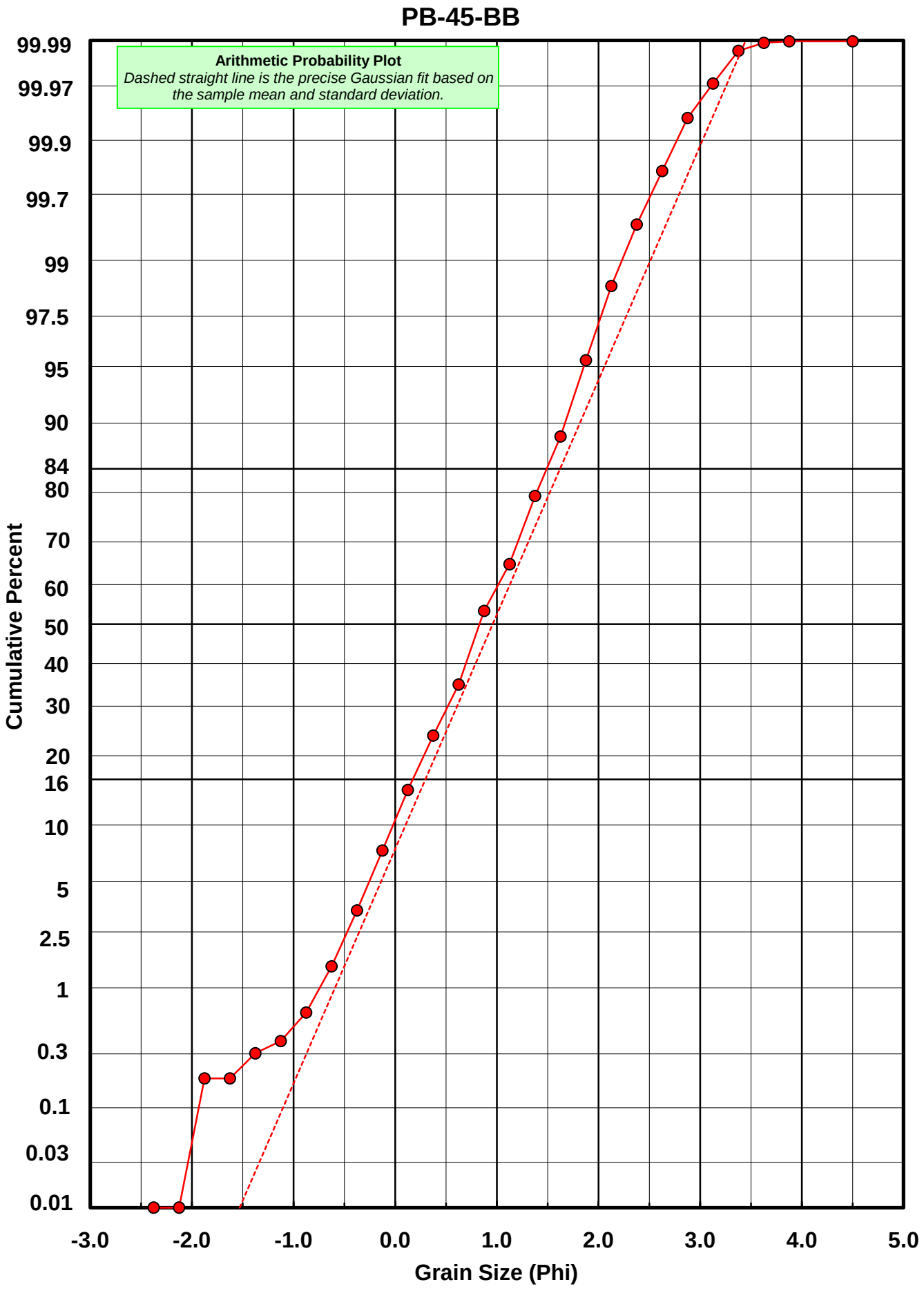
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




PB-45-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)

Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PB-45-BB

Total Carbonate Mass: 41.031 grams

% Carbonate: 66.0 %

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	0.113	0.275	0.275
-1.50	-1.625	0.000	0.000	0.275
-1.25	-1.375	0.074	0.180	0.456
-1.00	-1.125	0.051	0.124	0.580
-0.75	-0.875	0.169	0.412	0.992
-0.50	-0.625	0.495	1.206	2.198
-0.25	-0.375	1.187	2.893	5.091
0.00	-0.125	2.460	5.995	11.087
0.25	0.125	4.194	10.222	21.308
0.50	0.375	4.993	12.169	33.477
0.75	0.625	5.096	12.420	45.897
1.00	0.875	8.250	20.107	66.004
1.25	1.125	4.008	9.768	75.772
1.50	1.375	4.668	11.377	87.149
1.75	1.625	2.259	5.506	92.654
2.00	1.875	1.796	4.377	97.032
2.25	2.125	0.806	1.964	98.996
2.50	2.375	0.303	0.738	99.734
2.75	2.625	0.089	0.217	99.951
3.00	2.875	0.020	0.049	100.000
3.25	3.125	0.000	0.000	100.000
3.50	3.375	0.000	0.000	100.000
3.75	3.625	0.000	0.000	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.7777	phi	(0.5833 mm)
Standard Dev:	0.6648	phi-units	(0.6308 mm)
Skewness:	-0.1357	dimensionless	
Kurtosis:	3.3406	dimensionless	
5th Moment:	-2.8984	dimensionless	
6th Moment:	23.1739	dimensionless	
RARD *	0.8549	dimensionless	
Median	0.6760	phi	(0.6259 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	
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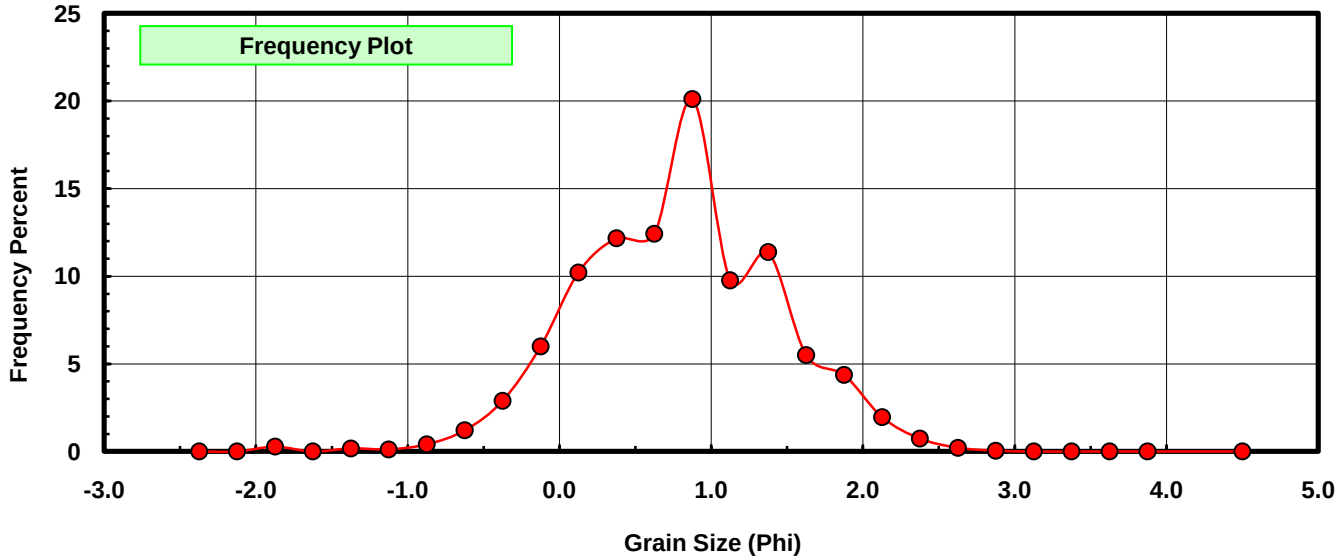

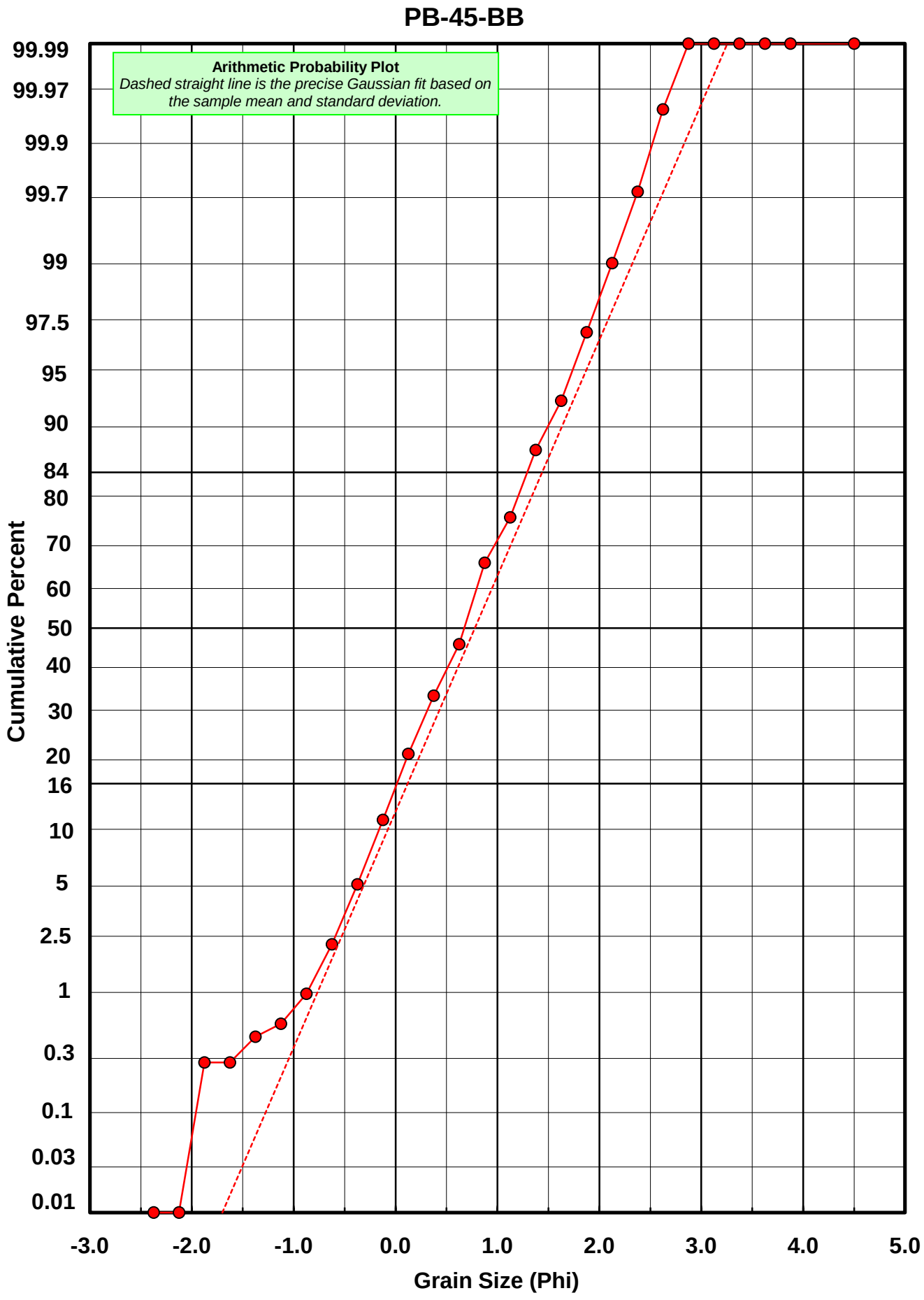
PB-45-BB
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PB-45-BB

Total Digested Mass: 21.127 grams

% Silica: 34.0 %

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	0.005	0.024	0.024
0.00	-0.125	0.039	0.185	0.208
0.25	0.125	0.251	1.188	1.396
0.50	0.375	0.894	4.232	5.628
0.75	0.625	1.785	8.449	14.077
1.00	0.875	3.096	14.654	28.731
1.25	1.125	3.071	14.536	43.267
1.50	1.375	4.271	20.216	63.483
1.75	1.625	3.489	16.514	79.997
2.00	1.875	2.552	12.079	92.076
2.25	2.125	1.080	5.112	97.188
2.50	2.375	0.328	1.553	98.741
2.75	2.625	0.127	0.601	99.342
3.00	2.875	0.057	0.270	99.612
3.25	3.125	0.029	0.137	99.749
3.50	3.375	0.022	0.104	99.853
3.75	3.625	0.015	0.071	99.924
4.00	3.875	0.009	0.043	99.967
5.00	4.500	0.007	0.033	100.000

Statistical Results			
Mean:	1.3170	phi	(0.4014 mm)
Standard Dev:	0.5361	phi-units	(0.6897 mm)
Skewness:	0.2369	dimensionless	
Kurtosis:	3.6365	dimensionless	
5th Moment:	6.3716	dimensionless	
6th Moment:	39.9455	dimensionless	
RARD *	0.4070	dimensionless	
Median	1.2083	phi	(0.4328 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
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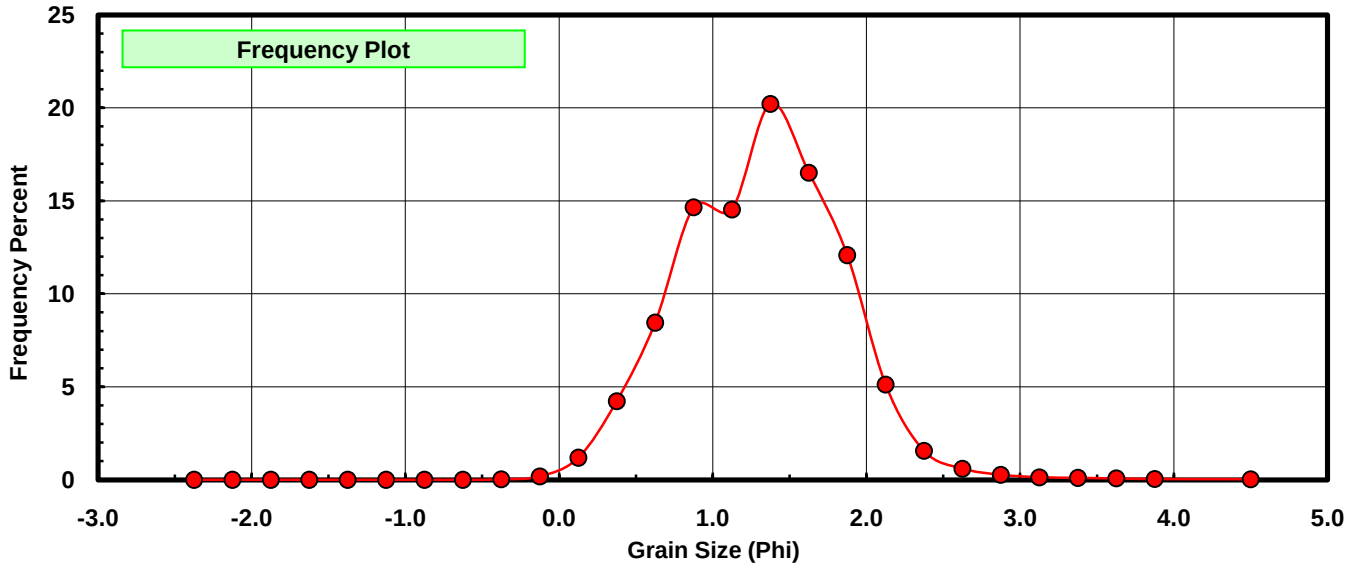
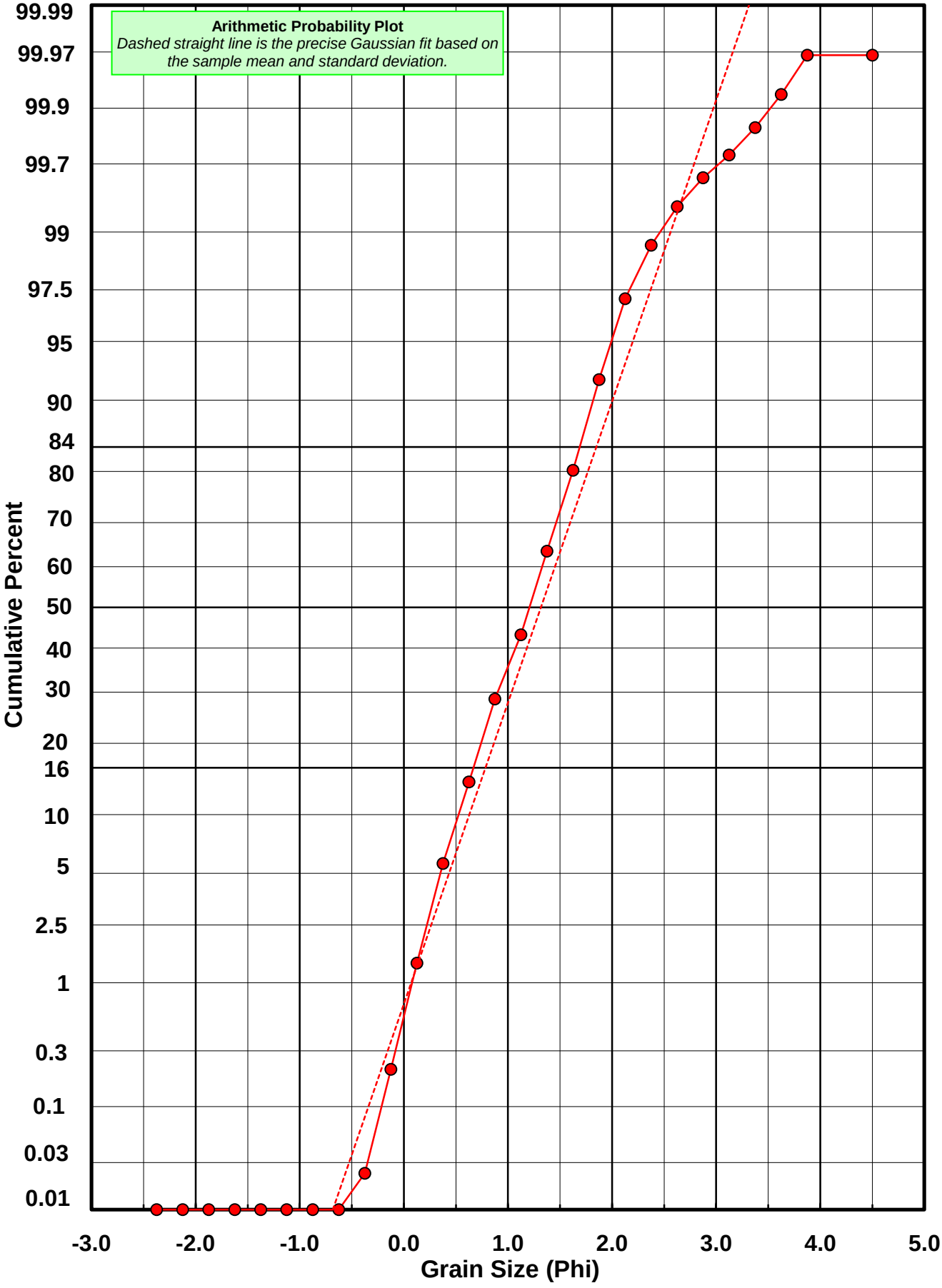


PB-45-BB


Arithmetic Probability Plot
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0.1
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-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)