

Onshore Grab Sample

Sample: BW-04-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/27/09
Splits? N/A

County: Broward
Latitude: 26° 16' 28.1"
Longitude: 80° 04' 45.1"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 58.571 grams
Total Fines in Sample 0.150 grams
Total Percent Fines 0.26 %

Dry Sieving Summary

Total Sample Weight 58.446 grams
Total Digested Weight 26.346 grams
Total Carbonate Weight 32.100 grams
Total Silica % 45.08 %
Total Carbonate % 54.92 %
Carbonate/Silica Ratio 1.218

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BW-04-BB

Total Sample Mass: 58.446 grams

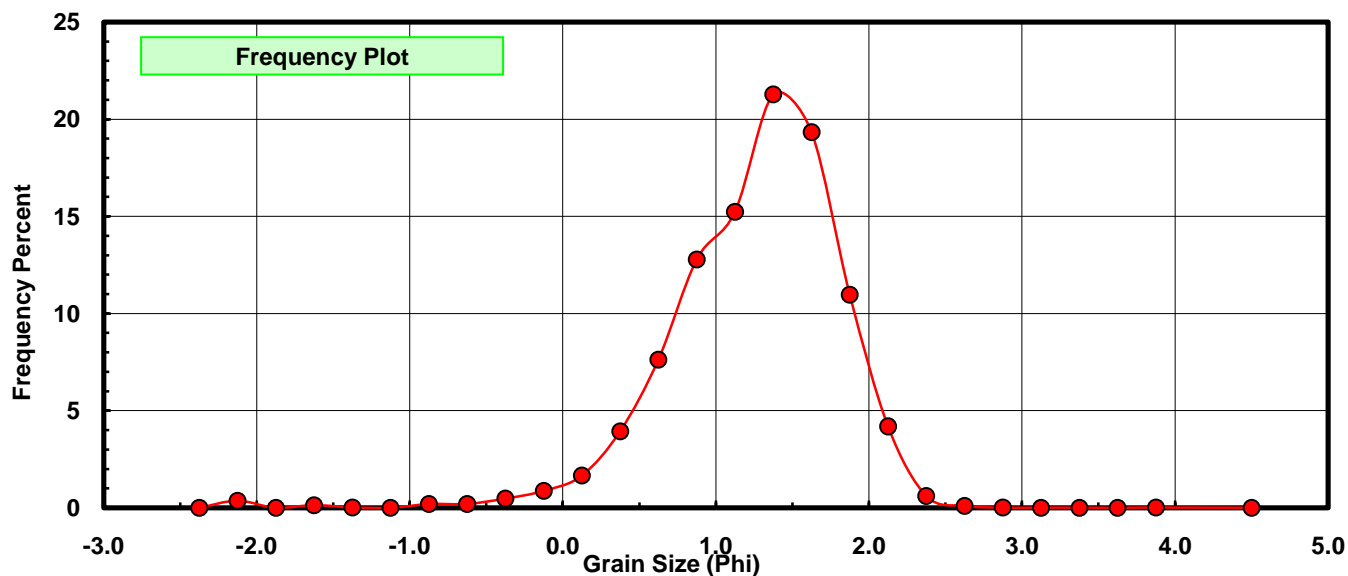
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.212	0.363	0.363
-1.75	-1.875	0.000	0.000	0.363
-1.50	-1.625	0.080	0.137	0.500
-1.25	-1.375	0.010	0.017	0.517
-1.00	-1.125	0.000	0.000	0.517
-0.75	-0.875	0.111	0.190	0.707
-0.50	-0.625	0.116	0.198	0.905
-0.25	-0.375	0.276	0.472	1.377
0.00	-0.125	0.508	0.869	2.247
0.25	0.125	0.969	1.658	3.904
0.50	0.375	2.302	3.939	7.843
0.75	0.625	4.459	7.629	15.472
1.00	0.875	7.468	12.778	28.250
1.25	1.125	8.905	15.236	43.486
1.50	1.375	12.433	21.273	64.759
1.75	1.625	11.303	19.339	84.098
2.00	1.875	6.410	10.967	95.066
2.25	2.125	2.449	4.190	99.256
2.50	2.375	0.359	0.614	99.870
2.75	2.625	0.057	0.098	99.967
3.00	2.875	0.005	0.009	99.976
3.25	3.125	0.004	0.007	99.983
3.50	3.375	0.003	0.005	99.988
3.75	3.625	0.000	0.000	99.988
4.00	3.875	0.007	0.012	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	1.2515	phi	(0.42 mm)
Standard Dev:	0.5671	phi-units	(0.675 mm)
Skewness:	-1.3726	dimensionless	
Kurtosis:	8.1775	dimensionless	
5th Moment:	-36.3918	dimensionless	
6th Moment:	206.8438	dimensionless	
RARD *	0.4532	dimensionless	
Median	1.2016	phi	(0.4348 mm)

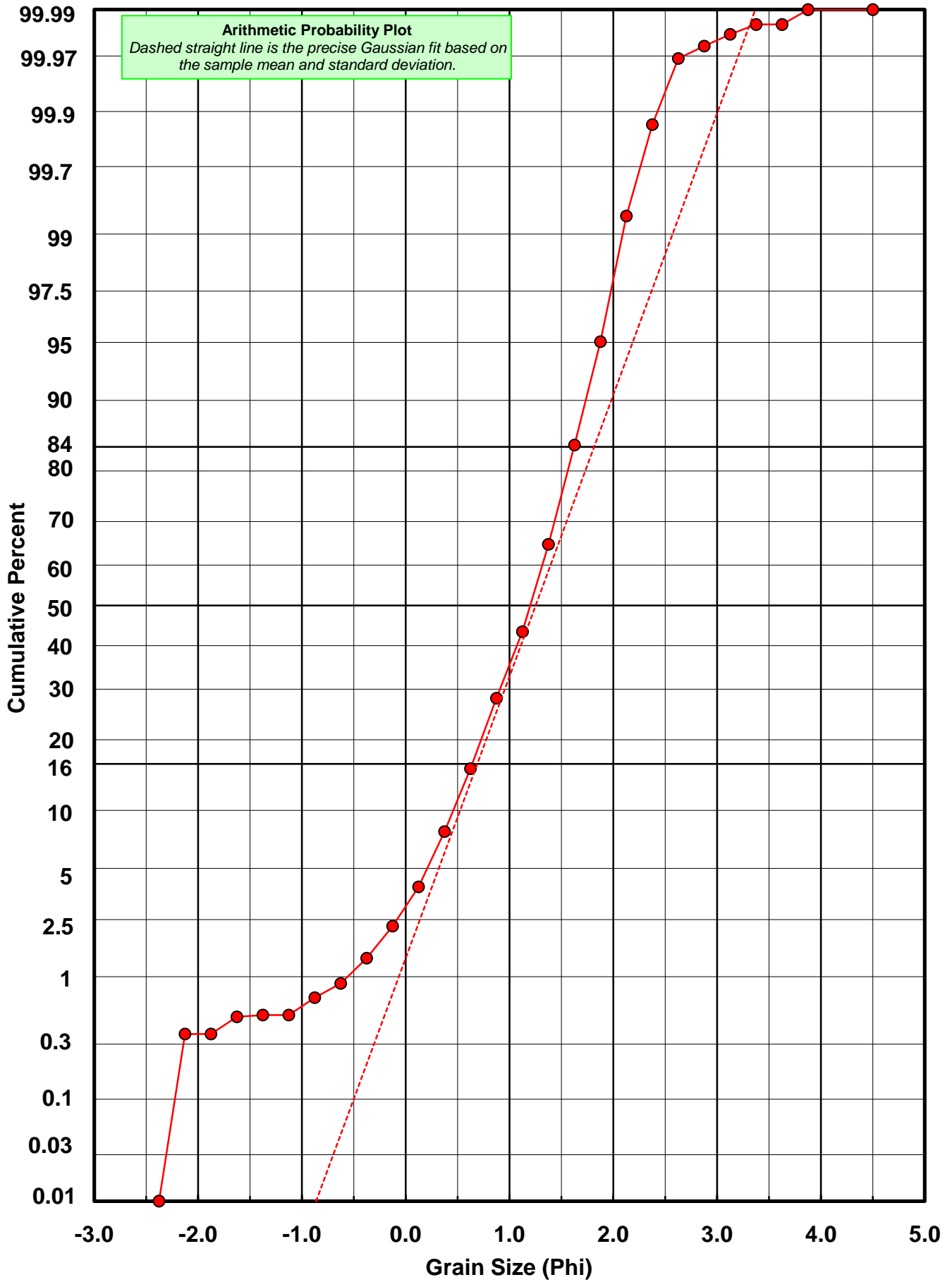
* RARD = reciprocal absolute relative dispersion (see below)

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 Basille 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)



BW-04-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: BW-04-BB

Total Carbonate Mass: 32.154 grams

% Carbonate: 54.9 %

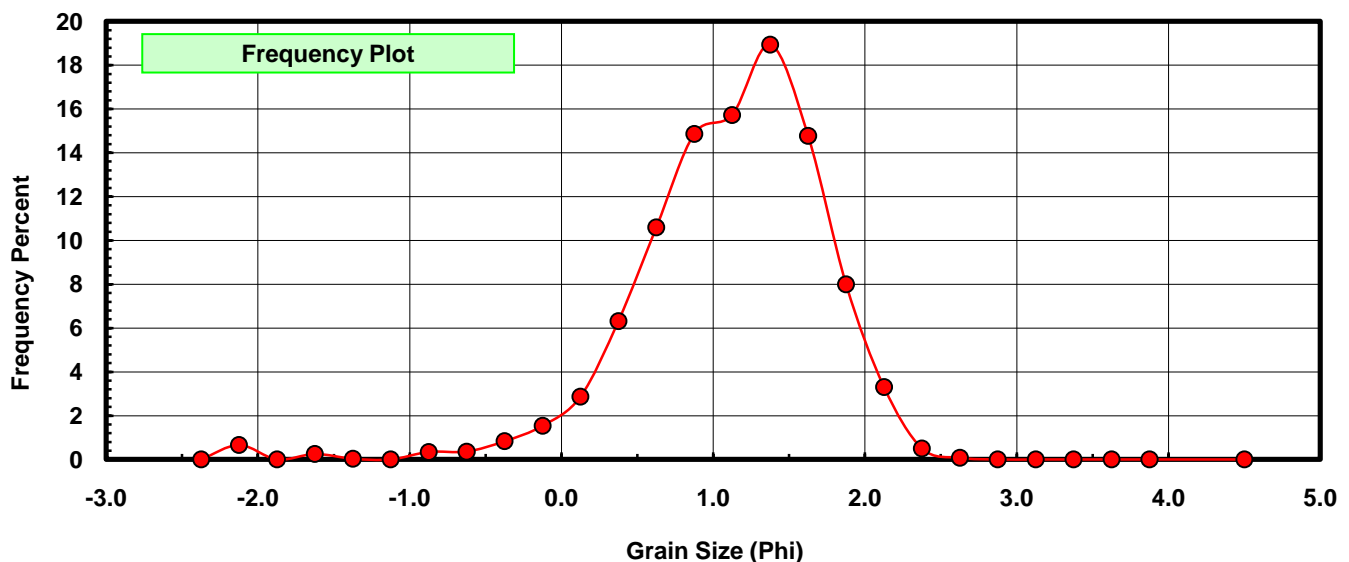
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.212	0.659	0.659
-1.75	-1.875	0.000	0.000	0.659
-1.50	-1.625	0.080	0.249	0.908
-1.25	-1.375	0.010	0.031	0.939
-1.00	-1.125	0.000	0.000	0.939
-0.75	-0.875	0.111	0.345	1.284
-0.50	-0.625	0.116	0.361	1.645
-0.25	-0.375	0.268	0.833	2.479
0.00	-0.125	0.494	1.536	4.015
0.25	0.125	0.924	2.874	6.889
0.50	0.375	2.033	6.323	13.211
0.75	0.625	3.409	10.602	23.814
1.00	0.875	4.781	14.869	38.683
1.25	1.125	5.058	15.731	54.413
1.50	1.375	6.088	18.934	73.347
1.75	1.625	4.749	14.770	88.117
2.00	1.875	2.571	7.996	96.112
2.25	2.125	1.063	3.306	99.418
2.50	2.375	0.163	0.507	99.925
2.75	2.625	0.024	0.075	100.000
3.00	2.875	0.000	0.000	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:	1.1064	phi	(0.4645 mm)
Standard Dev:	0.6378	phi-units	(0.6427 mm)
Skewness:	-1.3378	dimensionless	
Kurtosis:	7.3172	dimensionless	
5th Moment:	-28.8518	dimensionless	
6th Moment:	140.7654	dimensionless	
RARD *	0.5765	dimensionless	
Median	1.0549	phi	(0.4813 mm)

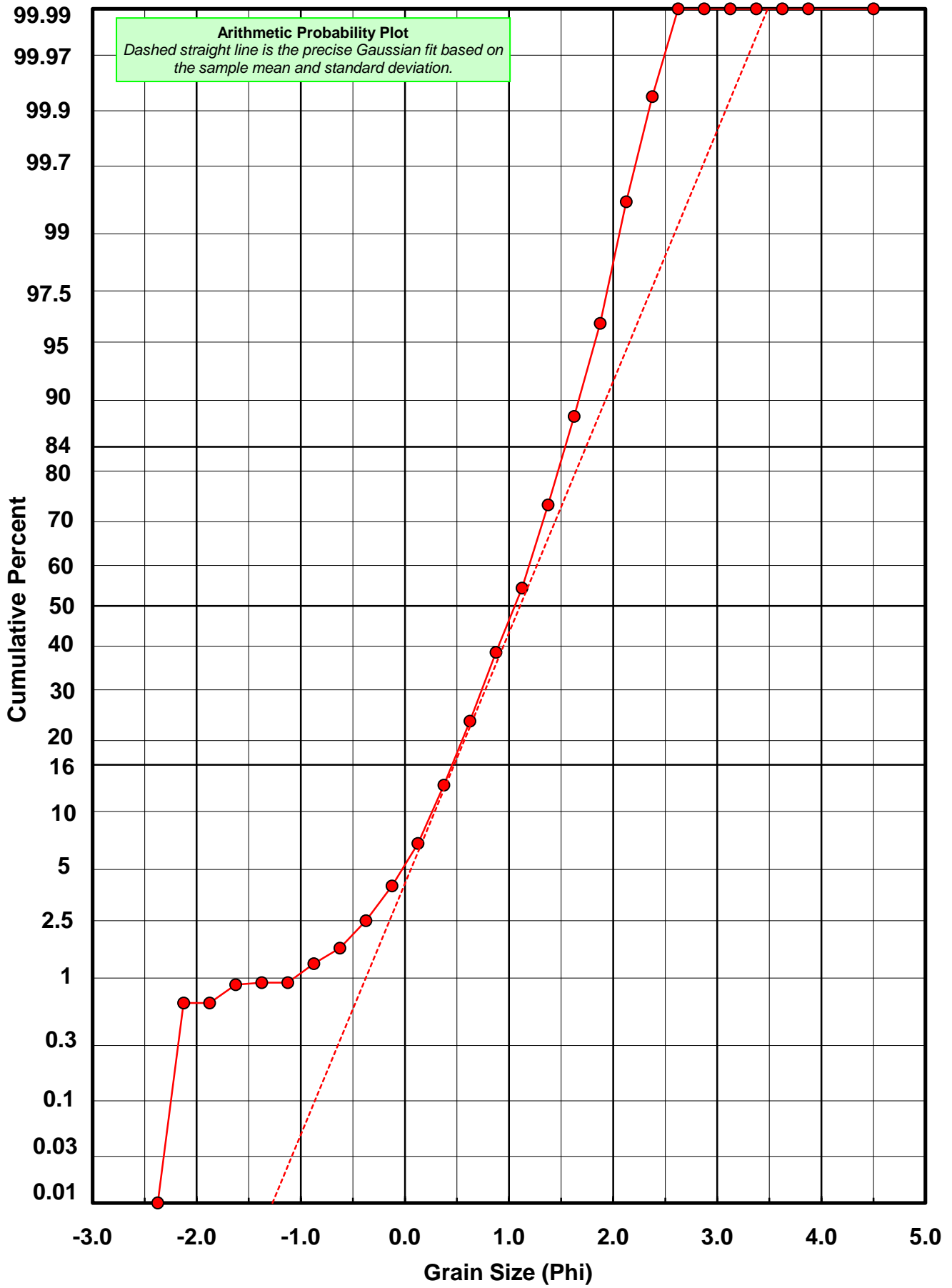
* RARD = reciprocal absolute relative dispersion (see below)

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 Basille 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)



BW-04-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BW-04-BB

Total Digested Mass: 26.346 grams

% Silica: 45.1 %

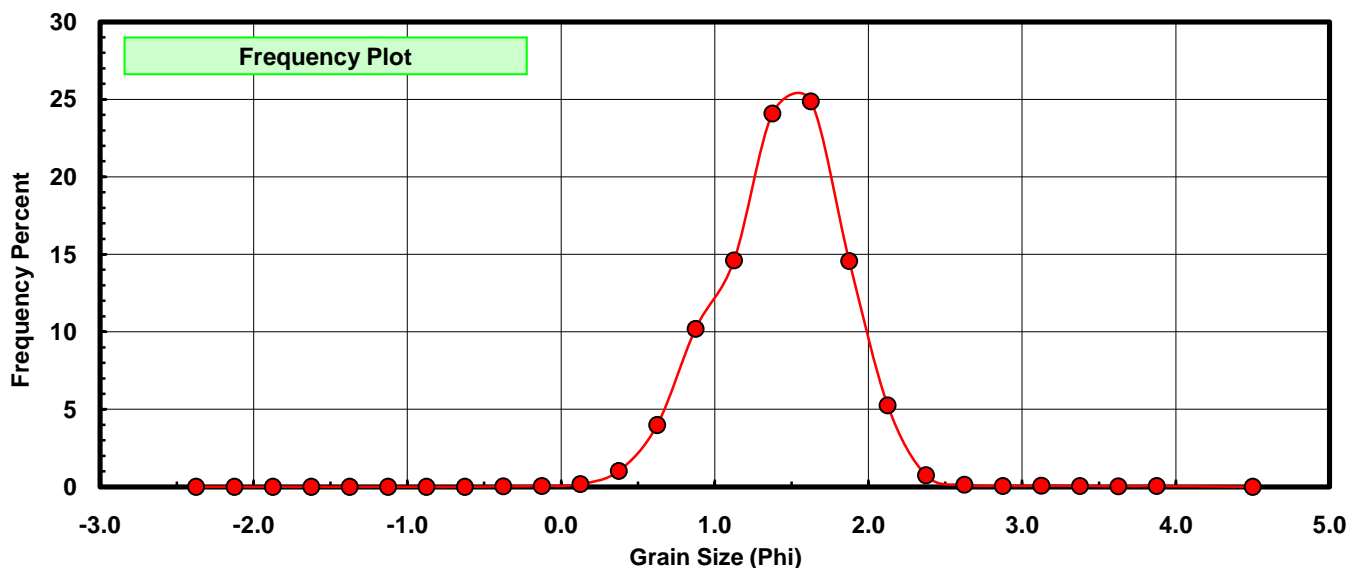
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.008	0.030	0.030
0.00	-0.125	0.014	0.053	0.084
0.25	0.125	0.045	0.171	0.254
0.50	0.375	0.269	1.021	1.275
0.75	0.625	1.050	3.985	5.261
1.00	0.875	2.687	10.199	15.460
1.25	1.125	3.847	14.602	30.061
1.50	1.375	6.345	24.083	54.145
1.75	1.625	6.554	24.877	79.021
2.00	1.875	3.839	14.571	93.593
2.25	2.125	1.386	5.261	98.854
2.50	2.375	0.196	0.744	99.598
2.75	2.625	0.033	0.125	99.723
3.00	2.875	0.015	0.057	99.780
3.25	3.125	0.020	0.076	99.856
3.50	3.375	0.016	0.061	99.916
3.75	3.625	0.009	0.034	99.951
4.00	3.875	0.013	0.049	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.4328	phi	(0.3704 mm)
Standard Dev:	0.4210	phi-units	(0.7469 mm)
Skewness:	-0.0274	dimensionless	
Kurtosis:	4.0191	dimensionless	
5th Moment:	4.7173	dimensionless	
6th Moment:	50.2448	dimensionless	
RARD *	0.2938	dimensionless	
Median	1.3320	phi	(0.3972 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 Basille 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)



BW-04-BB

