

Onshore Grab Sample

Sample: FG-03-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Flagler
Latitude: 29° 38' 06.9"
Longitude: 81° 11' 54.7"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 75.717 grams
Total Fines in Sample 0.141 grams
Total Percent Fines 0.19 %

Dry Sieving Summary

Total Sample Weight 75.598 grams
Total Digested Weight 43.032 grams
Total Carbonate Weight 32.567 grams
Total Silica % 56.92 %
Total Carbonate % 43.08 %
Carbonate/Silica Ratio 0.757

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-03-BB

Total Sample Mass: 75.598 grams

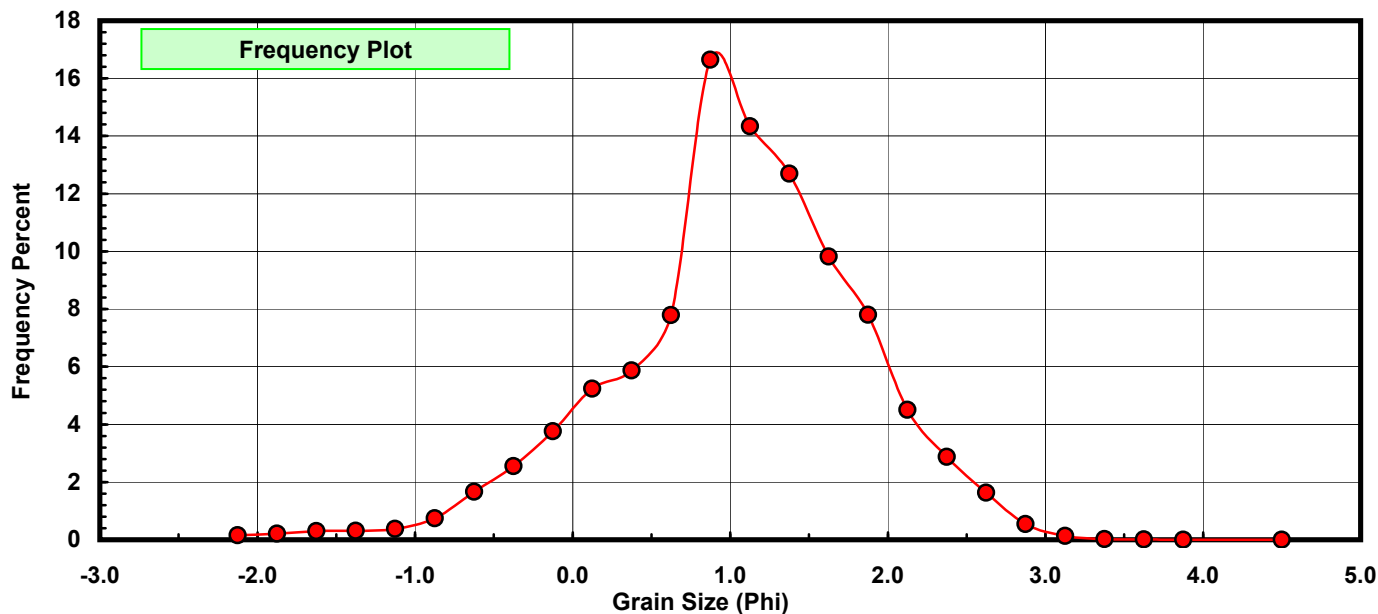
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.115	0.152	0.152
-1.75	-1.875	0.158	0.209	0.361
-1.50	-1.625	0.229	0.303	0.664
-1.25	-1.375	0.236	0.312	0.976
-1.00	-1.125	0.286	0.378	1.355
-0.75	-0.875	0.558	0.738	2.093
-0.50	-0.625	1.261	1.668	3.761
-0.25	-0.375	1.926	2.548	6.308
0.00	-0.125	2.842	3.759	10.068
0.25	0.125	3.958	5.236	15.303
0.50	0.375	4.442	5.876	21.179
0.75	0.625	5.891	7.793	28.972
1.00	0.875	12.588	16.651	45.623
1.25	1.125	10.843	14.343	59.966
1.50	1.375	9.598	12.696	72.662
1.75	1.625	7.423	9.819	82.481
2.00	1.875	5.899	7.803	90.284
2.25	2.125	3.404	4.503	94.787
2.50	2.375	2.170	2.870	97.657
2.75	2.625	1.234	1.632	99.290
3.00	2.875	0.408	0.540	99.829
3.25	3.125	0.099	0.131	99.960
3.50	3.375	0.019	0.025	99.985
3.75	3.625	0.007	0.009	99.995
4.00	3.875	0.001	0.001	99.996
5.00	4.500	0.003	0.004	100.000

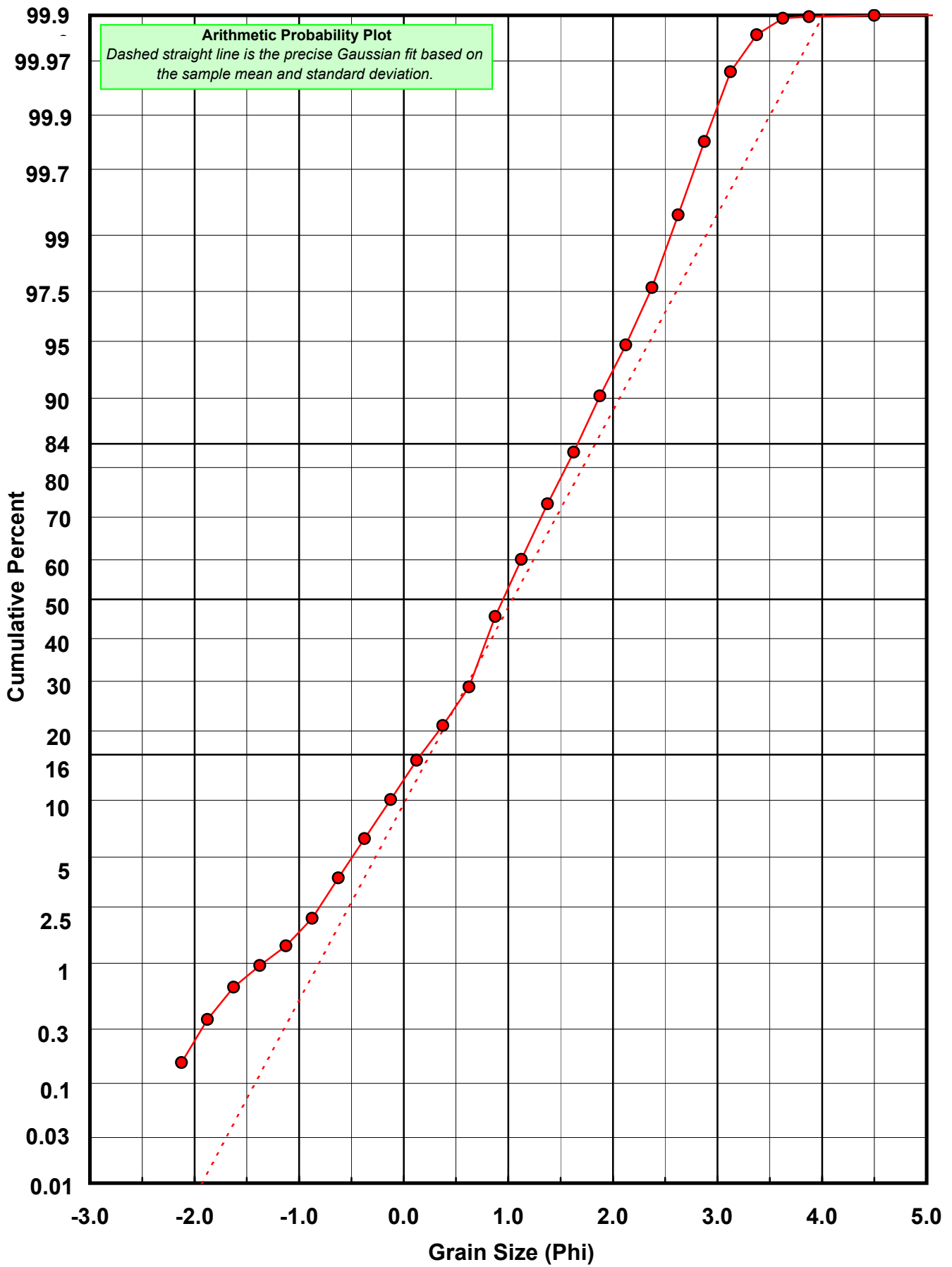
Statistical Results			
Mean:	1.0407	phi	(0.4861 mm)
Standard Dev:	0.7981	phi-units	(0.5751 mm)
Skewness:	-0.5035	dimensionless	
Kurtosis:	3.7665	dimensionless	
5th Moment:	-5.7520	dimensionless	
6th Moment:	27.2629	dimensionless	
RARD *	0.7668	dimensionless	
Median	0.9513	phi	(0.5172 mm)

* 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 Calculation Sheets
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)





Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: FG-03-BB

Total Carbonate Mass: 32.986 grams

% Carbonate: 43.1 %

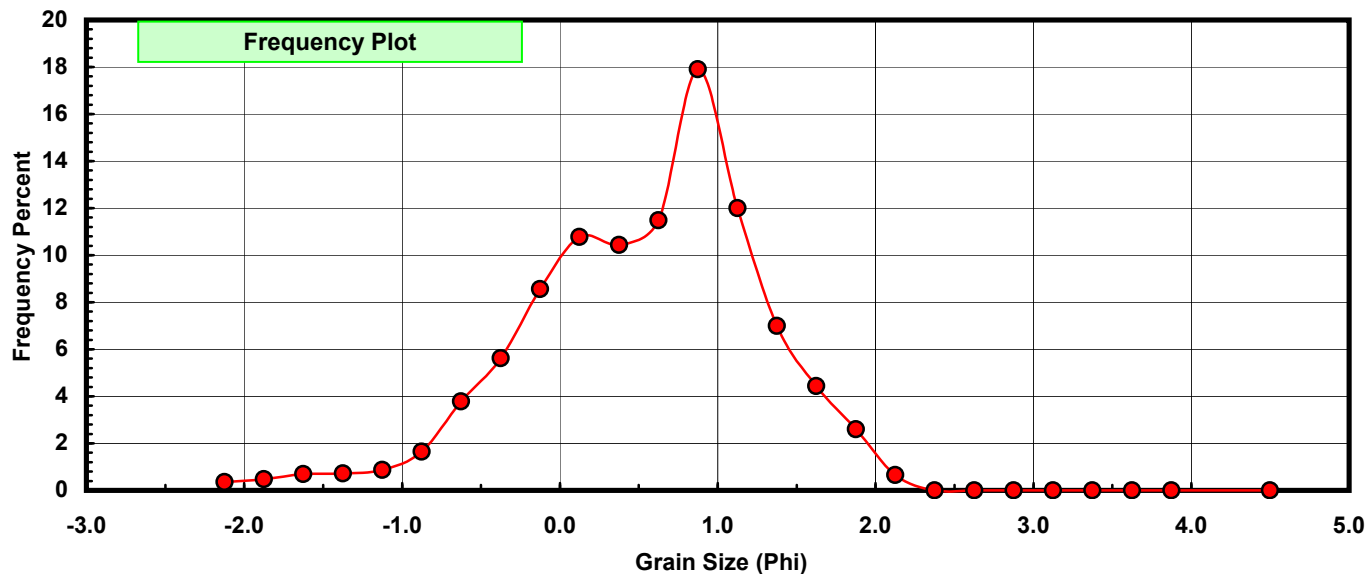
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.115	0.349	0.349
-1.75	-1.875	0.158	0.479	0.828
-1.50	-1.625	0.229	0.694	1.522
-1.25	-1.375	0.236	0.715	2.237
-1.00	-1.125	0.286	0.867	3.104
-0.75	-0.875	0.541	1.640	4.745
-0.50	-0.625	1.247	3.780	8.525
-0.25	-0.375	1.853	5.618	14.143
0.00	-0.125	2.825	8.563	22.705
0.25	0.125	3.554	10.774	33.480
0.50	0.375	3.443	10.438	43.918
0.75	0.625	3.789	11.487	55.405
1.00	0.875	5.906	17.905	73.309
1.25	1.125	3.959	12.002	85.312
1.50	1.375	2.308	6.997	92.309
1.75	1.625	1.464	4.438	96.747
2.00	1.875	0.856	2.595	99.342
2.25	2.125	0.217	0.658	100.000
2.50	2.375	0.000	0.000	100.000
2.75	2.625	0.000	0.000	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

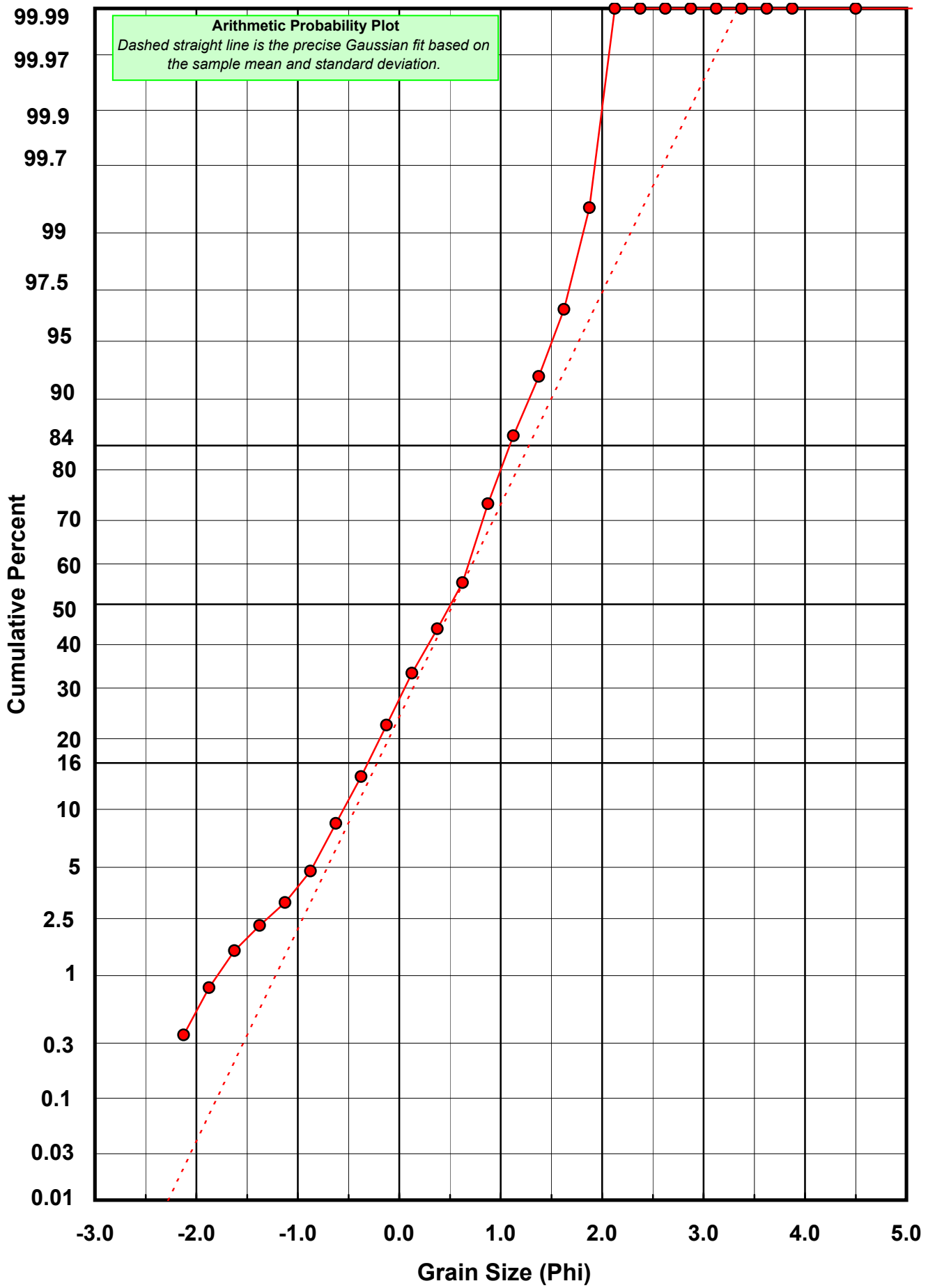
Statistical Results			
Mean:	0.5301	phi	(0.6925 mm)
Standard Dev:	0.7543	phi-units	(0.5928 mm)
Skewness:	-0.5867	dimensionless	
Kurtosis:	3.4242	dimensionless	
5th Moment:	-5.8150	dimensionless	
6th Moment:	22.3319	dimensionless	
RARD *	1.4230	dimensionless	
Median	0.5074	phi	(0.7035 mm)

* 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 Calculation Sheets	
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)





Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-03-BB

Total Digested Mass: 43.031 grams

% Silica: 56.9 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-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	0.017	0.040	0.040
-0.50	-0.625	0.014	0.033	0.072
-0.25	-0.375	0.073	0.170	0.242
0.00	-0.125	0.018	0.041	0.282
0.25	0.125	0.404	0.939	1.221
0.50	0.375	0.999	2.322	3.543
0.75	0.625	2.102	4.885	8.428
1.00	0.875	6.682	15.529	23.956
1.25	1.125	6.884	15.998	39.954
1.50	1.375	7.290	16.941	56.896
1.75	1.625	5.959	13.848	70.744
2.00	1.875	5.043	11.720	82.464
2.25	2.125	3.187	7.406	89.870
2.50	2.375	2.370	5.508	95.378
2.75	2.625	1.365	3.172	98.550
3.00	2.875	0.476	1.106	99.656
3.25	3.125	0.107	0.249	99.905
3.50	3.375	0.025	0.058	99.963
3.75	3.625	0.011	0.026	99.988
4.00	3.875	0.005	0.012	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.4471	phi	(0.3668 mm)
Standard Dev:	0.5896	phi-units	(0.6645 mm)
Skewness:	0.2481	dimensionless	
Kurtosis:	2.9136	dimensionless	
5th Moment:	1.1832	dimensionless	
6th Moment:	15.1152	dimensionless	
RARD *	0.4074	dimensionless	
Median	1.2732	phi	(0.4137 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 Calculation Sheets	
Millimeter data calculated by $mm = 2^{(-phi)}$	

Reciprocal Absolute Relative Dispersion (RARD) Scale	
< 0.5	Excellent homogeneity (e.g., beaches)
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