

Onshore Grab Sample

Sample: FG-19-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Flagler
Latitude: 29° 26' 30.0"
Longitude: 81° 06' 32.1"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 96.434 grams
Total Fines in Sample 0.084 grams
Total Percent Fines 0.09 %

Dry Sieving Summary

Total Sample Weight 96.209 grams
Total Digested Weight 71.147 grams
Total Carbonate Weight 25.062 grams
Total Silica % 73.95 %
Total Carbonate % 26.05 %
Carbonate/Silica Ratio 0.352

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-19-BB

Total Sample Mass: 96.209 grams

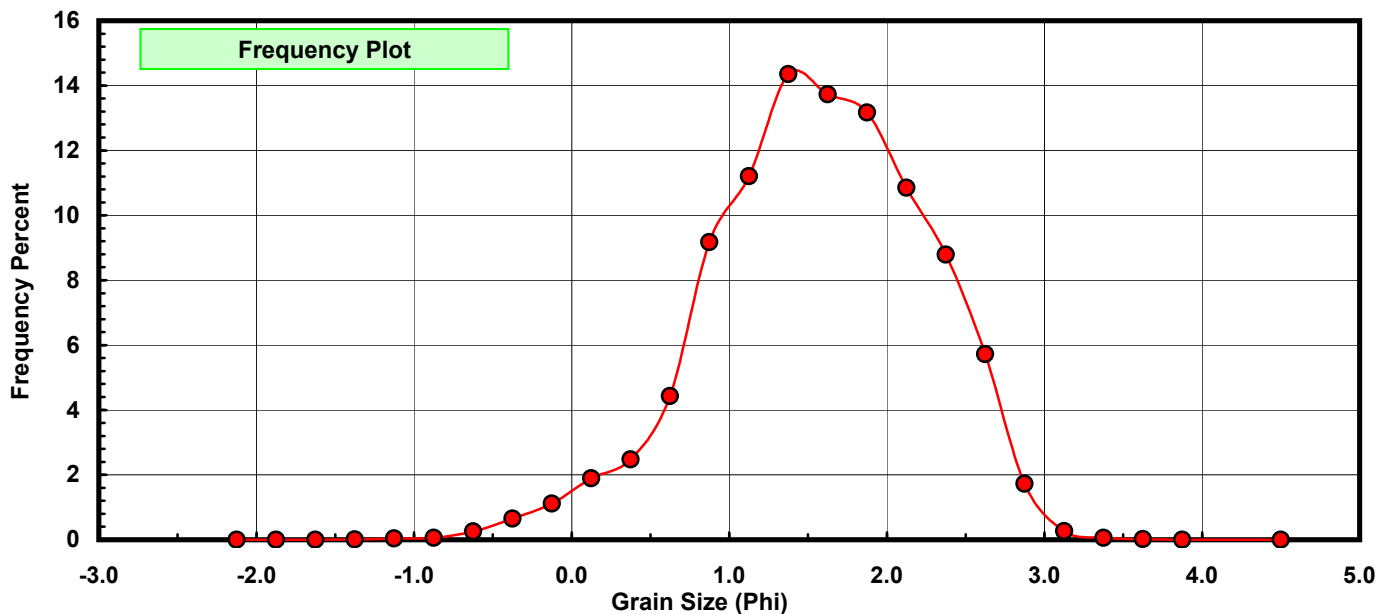
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.001	0.001	0.001
-1.25	-1.375	0.010	0.010	0.011
-1.00	-1.125	0.042	0.044	0.055
-0.75	-0.875	0.059	0.061	0.116
-0.50	-0.625	0.249	0.259	0.375
-0.25	-0.375	0.622	0.647	1.022
0.00	-0.125	1.076	1.118	2.140
0.25	0.125	1.823	1.895	4.035
0.50	0.375	2.383	2.477	6.512
0.75	0.625	4.263	4.431	10.943
1.00	0.875	8.822	9.170	20.112
1.25	1.125	10.777	11.202	31.314
1.50	1.375	13.806	14.350	45.664
1.75	1.625	13.208	13.728	59.393
2.00	1.875	12.674	13.173	72.566
2.25	2.125	10.444	10.856	83.422
2.50	2.375	8.456	8.789	92.211
2.75	2.625	5.502	5.719	97.930
3.00	2.875	1.664	1.730	99.659
3.25	3.125	0.256	0.266	99.925
3.50	3.375	0.053	0.055	99.980
3.75	3.625	0.018	0.019	99.999
4.00	3.875	0.001	0.001	100.000
5.00	4.500	0.000	0.000	100.000

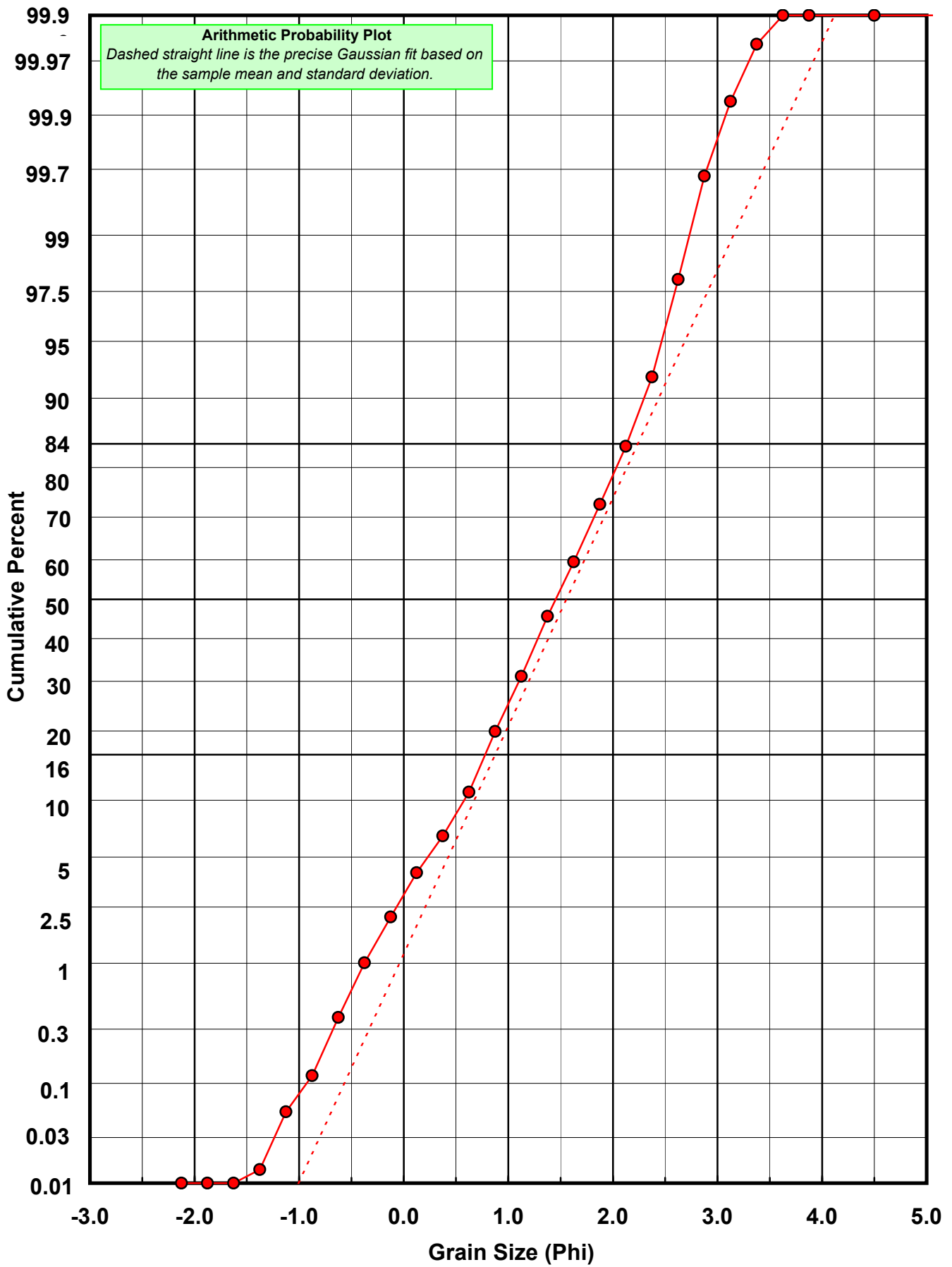
Statistical Results			
Mean:	1.5565	phi	(0.34 mm)
Standard Dev:	0.6880	phi-units	(0.6207 mm)
Skewness:	-0.3748	dimensionless	
Kurtosis:	3.0698	dimensionless	
5th Moment:	-3.7771	dimensionless	
6th Moment:	17.0066	dimensionless	
RARD *	0.4420	dimensionless	
Median	1.4540	phi	(0.365 mm)

* 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-19-BB

Total Carbonate Mass: 25.069 grams

% Carbonate: 26.0 %

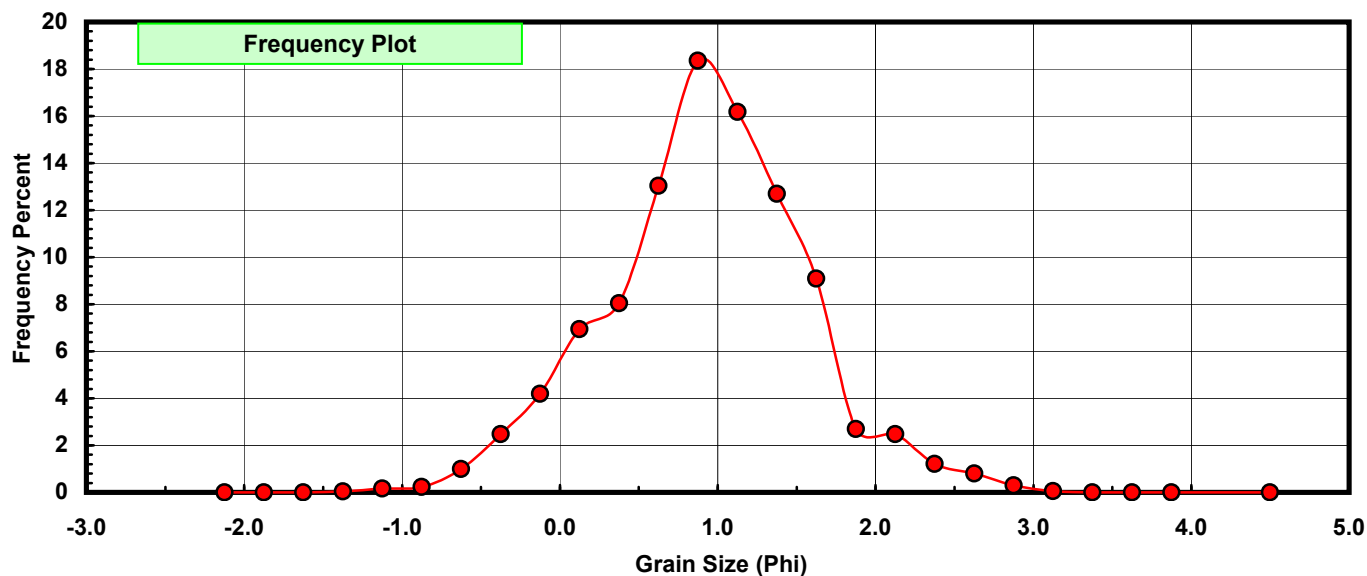
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.001	0.004	0.004
-1.25	-1.375	0.010	0.040	0.044
-1.00	-1.125	0.042	0.168	0.211
-0.75	-0.875	0.059	0.235	0.447
-0.50	-0.625	0.249	0.993	1.440
-0.25	-0.375	0.622	2.481	3.921
0.00	-0.125	1.049	4.184	8.106
0.25	0.125	1.740	6.941	15.046
0.50	0.375	2.017	8.046	23.092
0.75	0.625	3.269	13.040	36.132
1.00	0.875	4.602	18.357	54.490
1.25	1.125	4.056	16.179	70.669
1.50	1.375	3.182	12.693	83.362
1.75	1.625	2.277	9.083	92.445
2.00	1.875	0.676	2.697	95.141
2.25	2.125	0.621	2.477	97.619
2.50	2.375	0.304	1.213	98.831
2.75	2.625	0.202	0.806	99.637
3.00	2.875	0.075	0.299	99.936
3.25	3.125	0.015	0.060	99.996
3.50	3.375	0.000	0.000	99.996
3.75	3.625	0.000	0.000	99.996
4.00	3.875	0.001	0.004	100.000
5.00	4.500	0.000	0.000	100.000

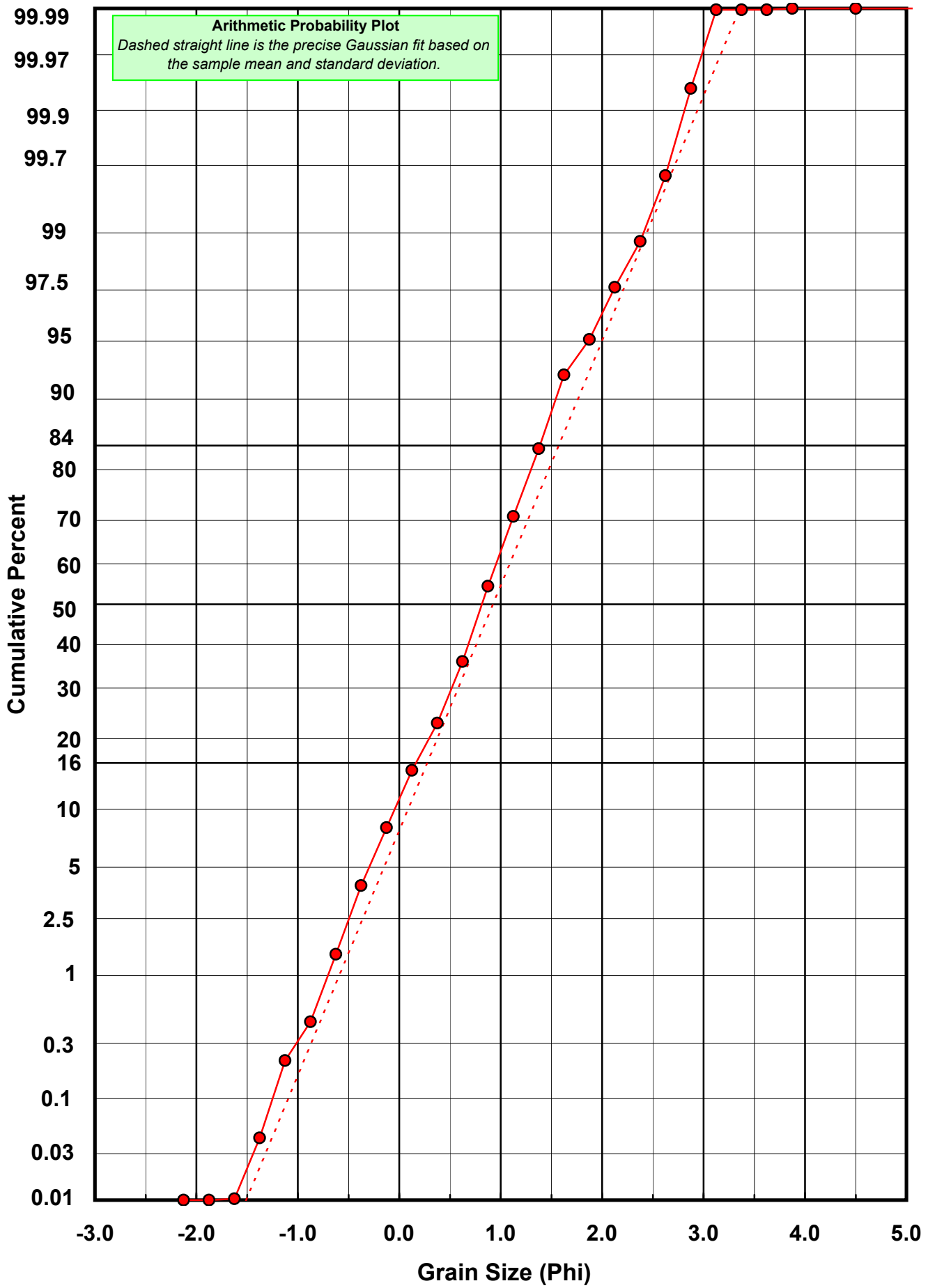
Statistical Results			
Mean:	0.9236	phi	(0.5272 mm)
Standard Dev:	0.6535	phi-units	(0.6357 mm)
Skewness:	-0.0309	dimensionless	
Kurtosis:	3.2258	dimensionless	
5th Moment:	0.2077	dimensionless	
6th Moment:	17.1195	dimensionless	
RARD *	0.7075	dimensionless	
Median	0.8139	phi	(0.5689 mm)

* 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-19-BB

Total Digested Mass: 71.147 grams

% Silica: 74.0 %

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	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.027	0.038	0.038
0.25	0.125	0.083	0.117	0.155
0.50	0.375	0.366	0.514	0.669
0.75	0.625	0.994	1.397	2.066
1.00	0.875	4.220	5.931	7.998
1.25	1.125	6.721	9.447	17.444
1.50	1.375	10.624	14.932	32.377
1.75	1.625	10.931	15.364	47.741
2.00	1.875	11.998	16.864	64.604
2.25	2.125	9.823	13.807	78.411
2.50	2.375	8.152	11.458	89.869
2.75	2.625	5.300	7.449	97.318
3.00	2.875	1.589	2.233	99.552
3.25	3.125	0.241	0.339	99.890
3.50	3.375	0.056	0.079	99.969
3.75	3.625	0.022	0.031	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:	1.7798	phi	(0.2912 mm)
Standard Dev:	0.5501	phi-units	(0.683 mm)
Skewness:	-0.0420	dimensionless	
Kurtosis:	2.5049	dimensionless	
5th Moment:	-0.4738	dimensionless	
6th Moment:	9.9462	dimensionless	
RARD *	0.3091	dimensionless	
Median	1.6585	phi	(0.3168 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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