

Onshore Grab Sample

Sample: FG-09-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Flagler
Latitude: 29° 34' 34.8"
Longitude: 81° 10' 57.0"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 54.363 grams
Total Fines in Sample 0.231 grams
Total Percent Fines 0.42 %

Dry Sieving Summary

Total Sample Weight 53.963 grams
Total Digested Weight 35.485 grams
Total Carbonate Weight 18.478 grams
Total Silica % 65.76 %
Total Carbonate % 34.24 %
Carbonate/Silica Ratio 0.521

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-09-BB

Total Sample Mass: 53.963 grams

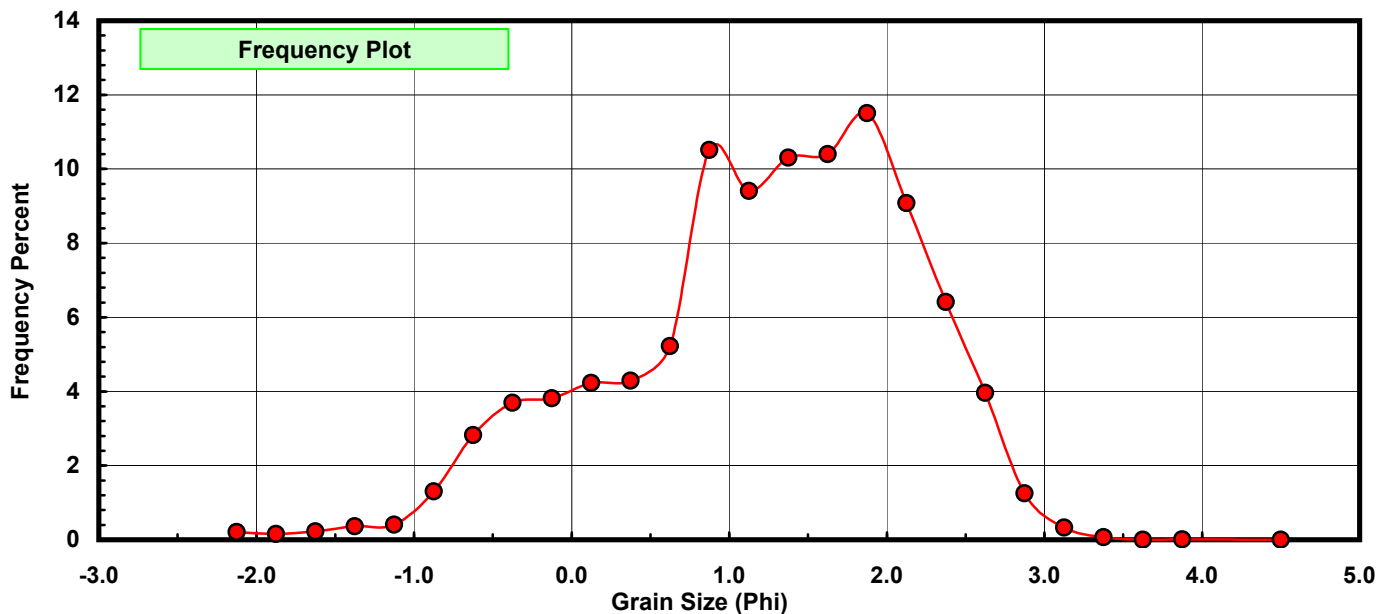
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.113	0.209	0.209
-1.75	-1.875	0.083	0.154	0.363
-1.50	-1.625	0.120	0.222	0.586
-1.25	-1.375	0.196	0.363	0.949
-1.00	-1.125	0.220	0.408	1.356
-0.75	-0.875	0.701	1.299	2.656
-0.50	-0.625	1.524	2.824	5.480
-0.25	-0.375	1.992	3.691	9.171
0.00	-0.125	2.060	3.817	12.989
0.25	0.125	2.280	4.225	17.214
0.50	0.375	2.316	4.292	21.505
0.75	0.625	2.820	5.226	26.731
1.00	0.875	5.674	10.515	37.246
1.25	1.125	5.078	9.410	46.656
1.50	1.375	5.561	10.305	56.961
1.75	1.625	5.613	10.402	67.363
2.00	1.875	6.209	11.506	78.869
2.25	2.125	4.901	9.082	87.951
2.50	2.375	3.461	6.414	94.365
2.75	2.625	2.140	3.966	98.330
3.00	2.875	0.677	1.255	99.585
3.25	3.125	0.176	0.326	99.911
3.50	3.375	0.039	0.072	99.983
3.75	3.625	0.002	0.004	99.987
4.00	3.875	0.005	0.009	99.996
5.00	4.500	0.002	0.004	100.000

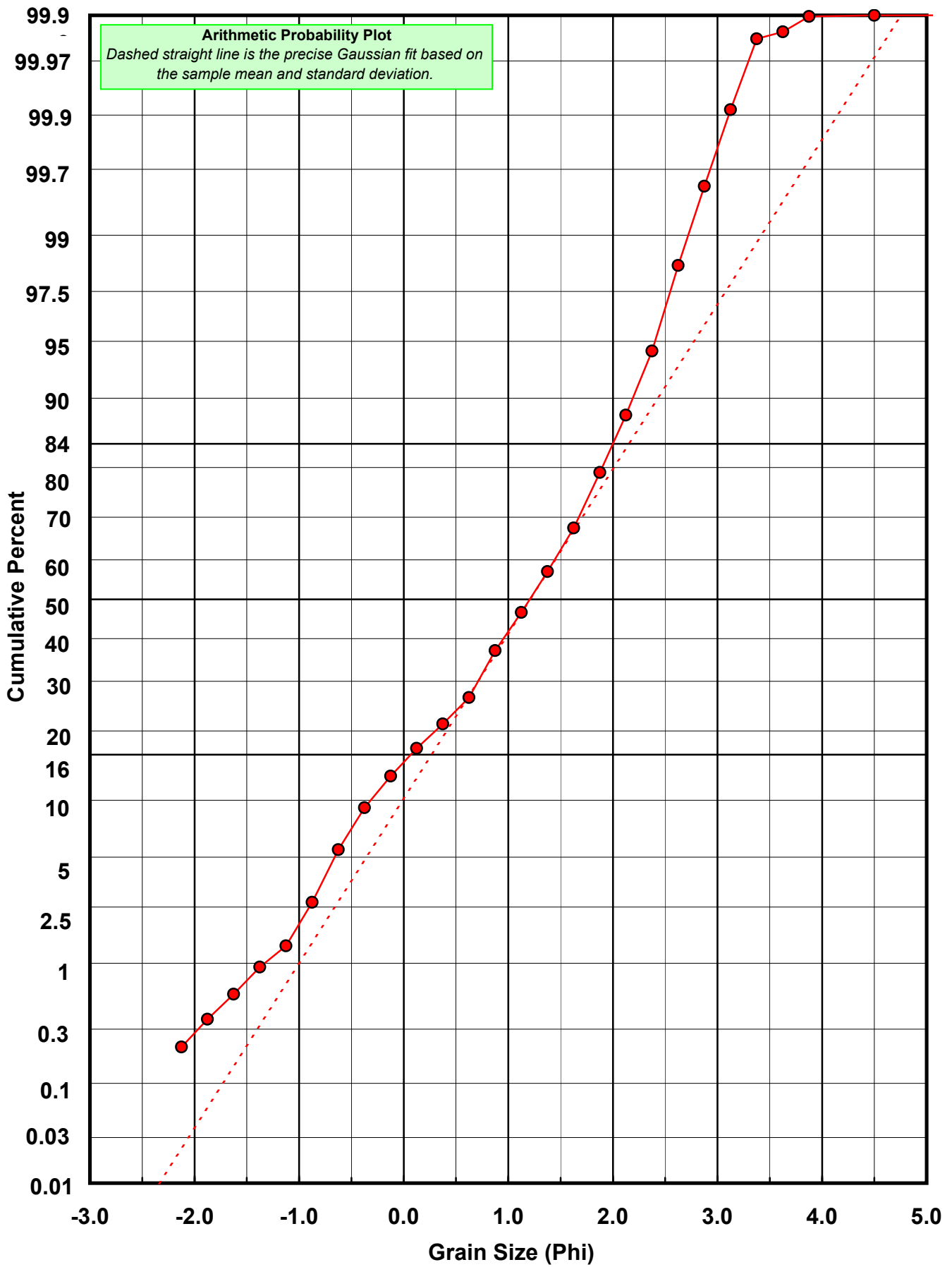
Statistical Results			
Mean:	1.2090	phi	(0.4326 mm)
Standard Dev:	0.9523	phi-units	(0.5168 mm)
Skewness:	-0.5805	dimensionless	
Kurtosis:	2.9270	dimensionless	
5th Moment:	-4.3712	dimensionless	
6th Moment:	15.3648	dimensionless	
RARD *	0.7877	dimensionless	
Median	1.2061	phi	(0.4334 mm)

* 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-09-BB

Total Carbonate Mass: 18.749 grams

% Carbonate: 34.2 %

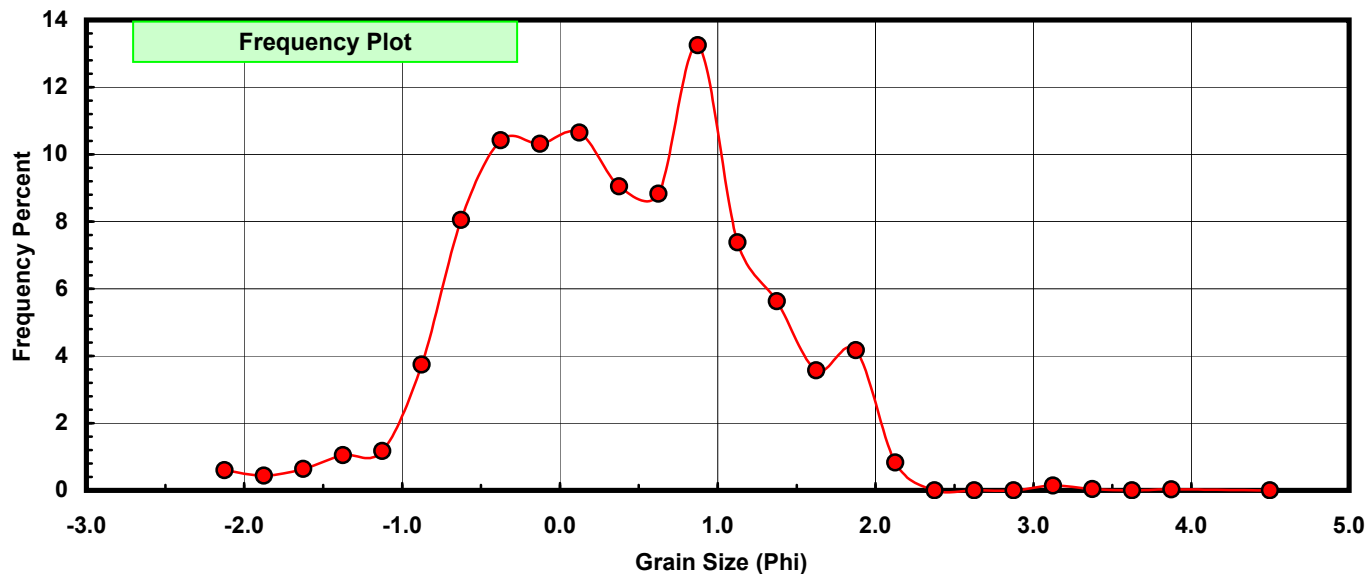
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.113	0.603	0.603
-1.75	-1.875	0.083	0.443	1.045
-1.50	-1.625	0.120	0.640	1.685
-1.25	-1.375	0.196	1.045	2.731
-1.00	-1.125	0.220	1.173	3.904
-0.75	-0.875	0.701	3.739	7.643
-0.50	-0.625	1.509	8.048	15.692
-0.25	-0.375	1.953	10.417	26.108
0.00	-0.125	1.933	10.310	36.418
0.25	0.125	1.997	10.651	47.069
0.50	0.375	1.697	9.051	56.120
0.75	0.625	1.656	8.832	64.953
1.00	0.875	2.483	13.243	78.196
1.25	1.125	1.384	7.382	85.578
1.50	1.375	1.056	5.632	91.210
1.75	1.625	0.670	3.574	94.784
2.00	1.875	0.782	4.171	98.955
2.25	2.125	0.156	0.832	99.787
2.50	2.375	0.000	0.000	99.787
2.75	2.625	0.000	0.000	99.787
3.00	2.875	0.000	0.000	99.787
3.25	3.125	0.027	0.144	99.931
3.50	3.375	0.008	0.043	99.973
3.75	3.625	0.000	0.000	99.973
4.00	3.875	0.005	0.027	100.000
5.00	4.500	0.000	0.000	100.000

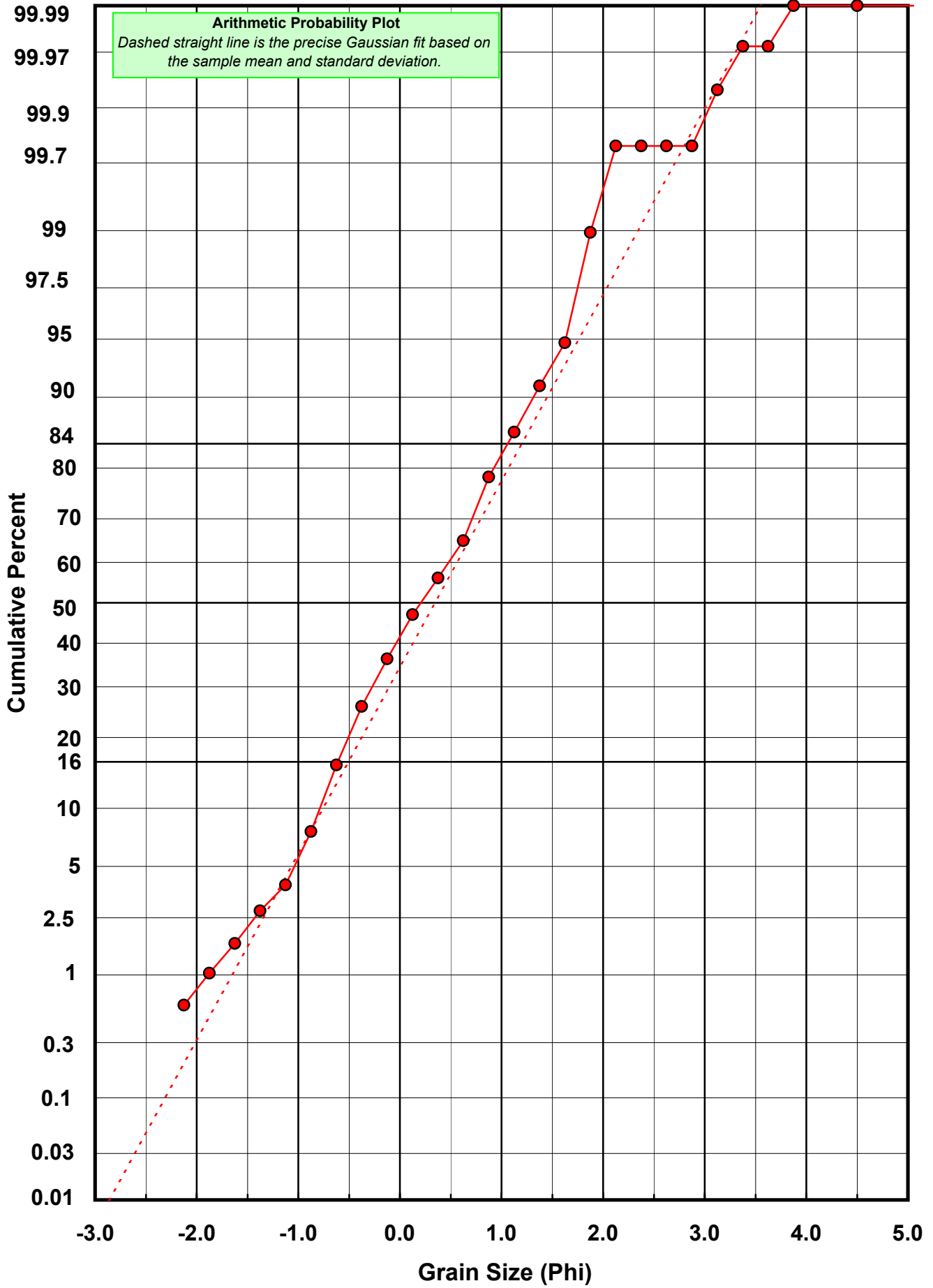
Statistical Results			
Mean:	0.3457	phi	(0.7869 mm)
Standard Dev:	0.8616	phi-units	(0.5503 mm)
Skewness:	-0.0465	dimensionless	
Kurtosis:	2.7505	dimensionless	
5th Moment:	-0.4687	dimensionless	
6th Moment:	14.0006	dimensionless	
RARD *	2.4924	dimensionless	
Median	0.2060	phi	(0.867 mm)

* 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-09-BB

Total Digested Mass: 35.485 grams

% Silica: 65.8 %

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	0.015	0.042	0.042
-0.25	-0.375	0.039	0.110	0.152
0.00	-0.125	0.127	0.358	0.510
0.25	0.125	0.283	0.798	1.308
0.50	0.375	0.619	1.744	3.052
0.75	0.625	1.164	3.280	6.332
1.00	0.875	3.191	8.993	15.325
1.25	1.125	3.694	10.410	25.735
1.50	1.375	4.505	12.696	38.430
1.75	1.625	4.943	13.930	52.360
2.00	1.875	5.427	15.294	67.654
2.25	2.125	4.745	13.372	81.026
2.50	2.375	3.539	9.973	90.999
2.75	2.625	2.293	6.462	97.461
3.00	2.875	0.719	2.026	99.487
3.25	3.125	0.149	0.420	99.907
3.50	3.375	0.031	0.087	99.994
3.75	3.625	0.002	0.006	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:	1.6756	phi	(0.313 mm)
Standard Dev:	0.6296	phi-units	(0.6464 mm)
Skewness:	-0.2202	dimensionless	
Kurtosis:	2.6397	dimensionless	
5th Moment:	-1.9574	dimensionless	
6th Moment:	11.8291	dimensionless	
RARD *	0.3757	dimensionless	
Median	1.5826	phi	(0.3339 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)

