

**Onshore Grab Sample**

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

**County:** Flagler  
**Latitude:** 29° 38' 06.8"  
**Longitude:** 81° 11' 54.5"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 84.25 grams  
Total Fines in Sample 0.170 grams  
Total Percent Fines 0.20 %

**Dry Sieving Summary**

Total Sample Weight 84.192 grams  
Total Digested Weight 17.684 grams  
Total Carbonate Weight 66.508 grams  
Total Silica % 21.00 %  
Total Carbonate % 79.00 %  
Carbonate/Silica Ratio 3.761

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-03-MB

Total Sample Mass: 84.192 grams

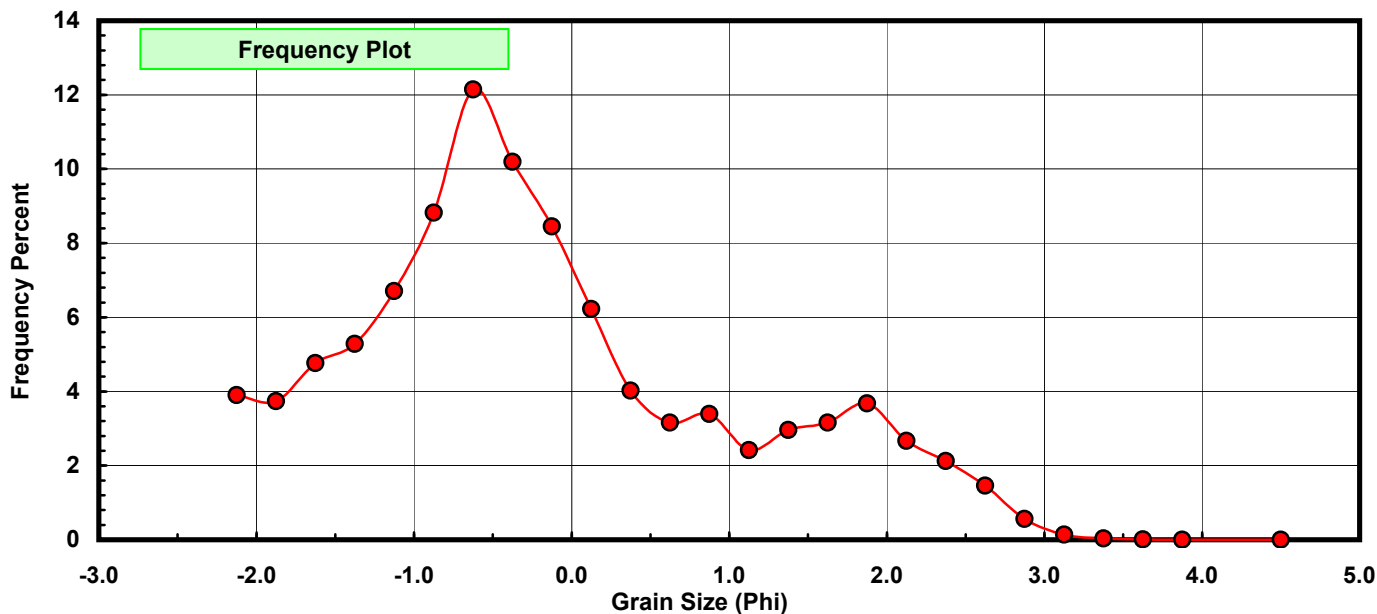
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	3.288	3.905	3.905
-1.75	-1.875	3.146	3.737	7.642
-1.50	-1.625	4.012	4.765	12.407
-1.25	-1.375	4.446	5.281	17.688
-1.00	-1.125	5.643	6.703	24.391
-0.75	-0.875	7.427	8.822	33.212
-0.50	-0.625	10.227	12.147	45.359
-0.25	-0.375	8.585	10.197	55.556
0.00	-0.125	7.111	8.446	64.003
0.25	0.125	5.242	6.226	70.229
0.50	0.375	3.384	4.019	74.248
0.75	0.625	2.659	3.158	77.406
1.00	0.875	2.854	3.390	80.796
1.25	1.125	2.034	2.416	83.212
1.50	1.375	2.493	2.961	86.173
1.75	1.625	2.658	3.157	89.330
2.00	1.875	3.094	3.675	93.005
2.25	2.125	2.249	2.671	95.677
2.50	2.375	1.789	2.125	97.801
2.75	2.625	1.227	1.457	99.259
3.00	2.875	0.471	0.559	99.818
3.25	3.125	0.119	0.141	99.960
3.50	3.375	0.027	0.032	99.992
3.75	3.625	0.005	0.006	99.998
4.00	3.875	0.001	0.001	99.999
5.00	4.500	0.001	0.001	100.000

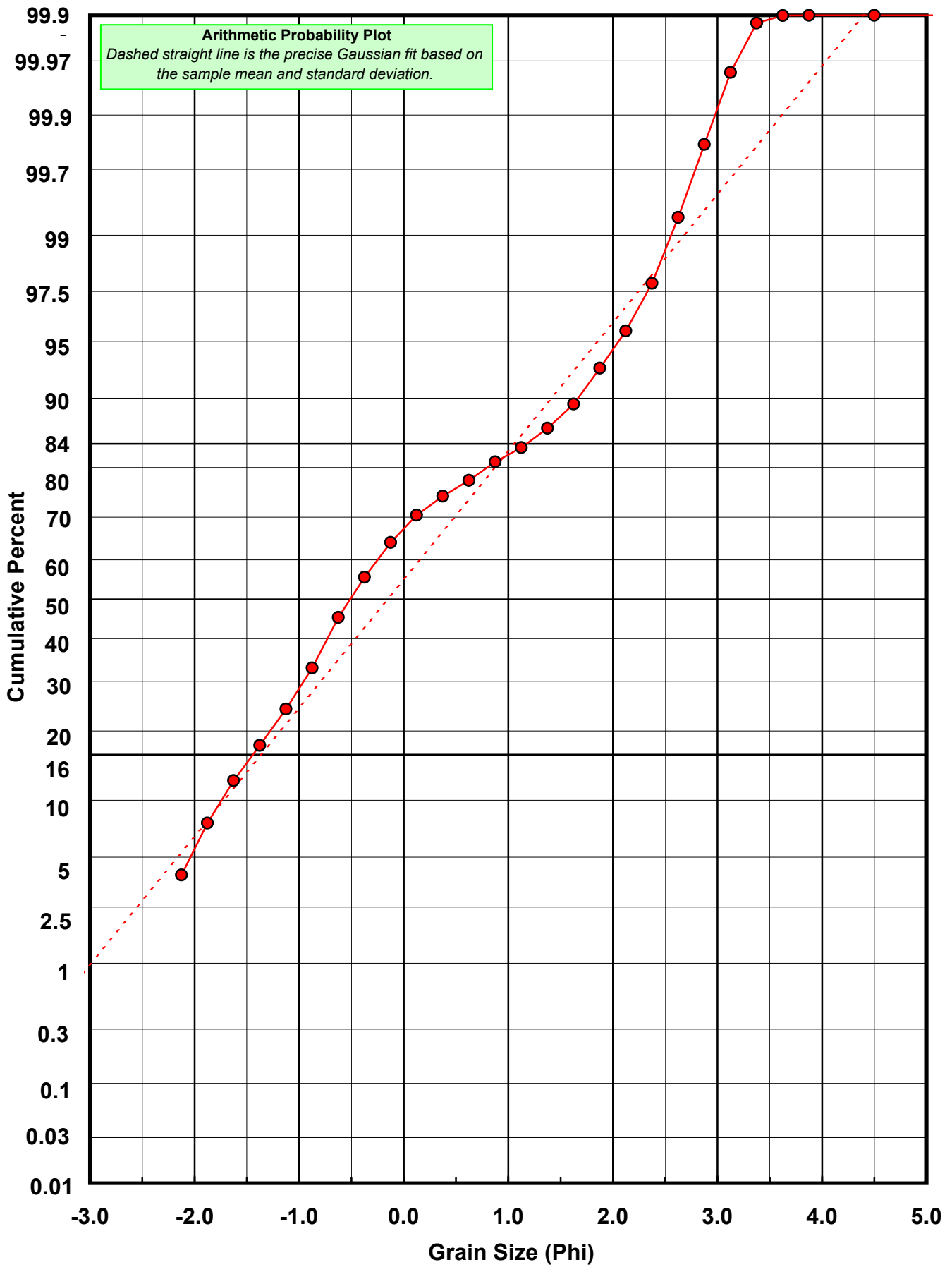
Statistical Results			
Mean:	-0.1527	phi	(1.1116 mm)
Standard Dev:	1.2219	phi-units	(0.4287 mm)
Skewness:	0.5802	dimensionless	
Kurtosis:	2.5985	dimensionless	
5th Moment:	3.1097	dimensionless	
6th Moment:	9.4470	dimensionless	
RARD *	8.0041	dimensionless	
Median	-0.5112	phi	(1.4253 mm)

\* 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-MB

Total Carbonate Mass: 66.687 grams

% Carbonate: 79.0 %

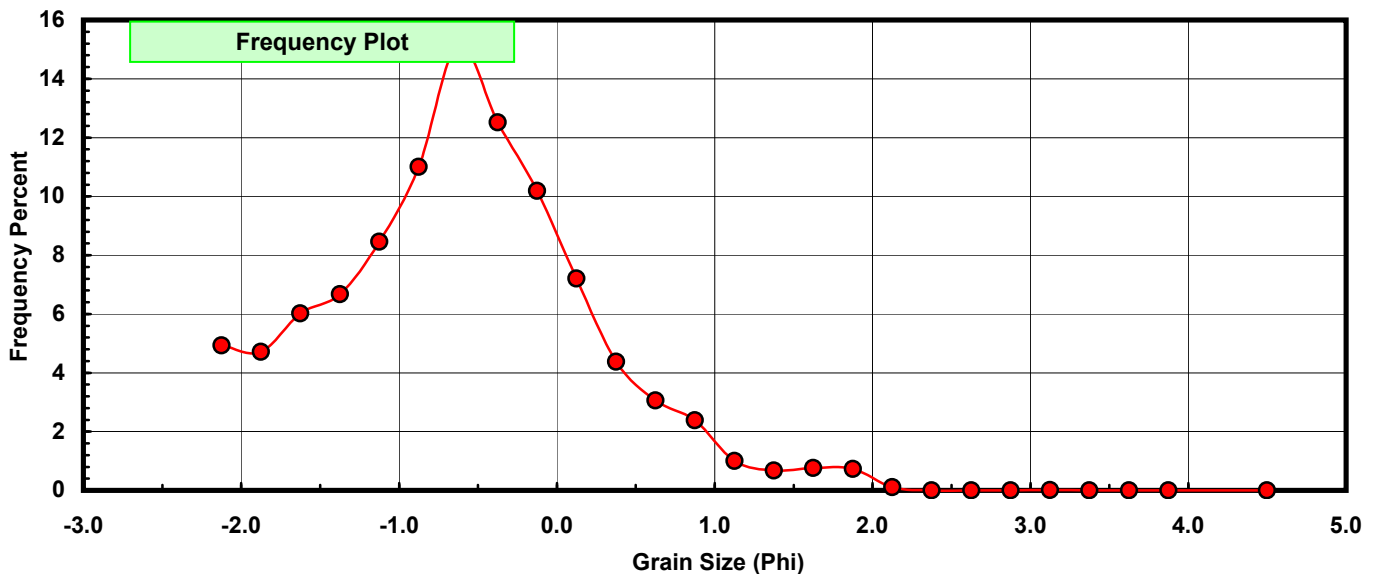
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	3.288	4.930	4.930
-1.75	-1.875	3.146	4.718	9.648
-1.50	-1.625	4.012	6.016	15.664
-1.25	-1.375	4.446	6.667	22.331
-1.00	-1.125	5.643	8.462	30.793
-0.75	-0.875	7.338	11.004	41.797
-0.50	-0.625	10.124	15.181	56.978
-0.25	-0.375	8.348	12.518	69.496
0.00	-0.125	6.791	10.183	79.680
0.25	0.125	4.804	7.204	86.884
0.50	0.375	2.921	4.380	91.264
0.75	0.625	2.040	3.059	94.323
1.00	0.875	1.590	2.384	96.707
1.25	1.125	0.667	1.000	97.707
1.50	1.375	0.449	0.673	98.380
1.75	1.625	0.506	0.759	99.139
2.00	1.875	0.489	0.733	99.873
2.25	2.125	0.076	0.114	99.987
2.50	2.375	0.000	0.000	99.987
2.75	2.625	0.000	0.000	99.987
3.00	2.875	0.000	0.000	99.987
3.25	3.125	0.009	0.013	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

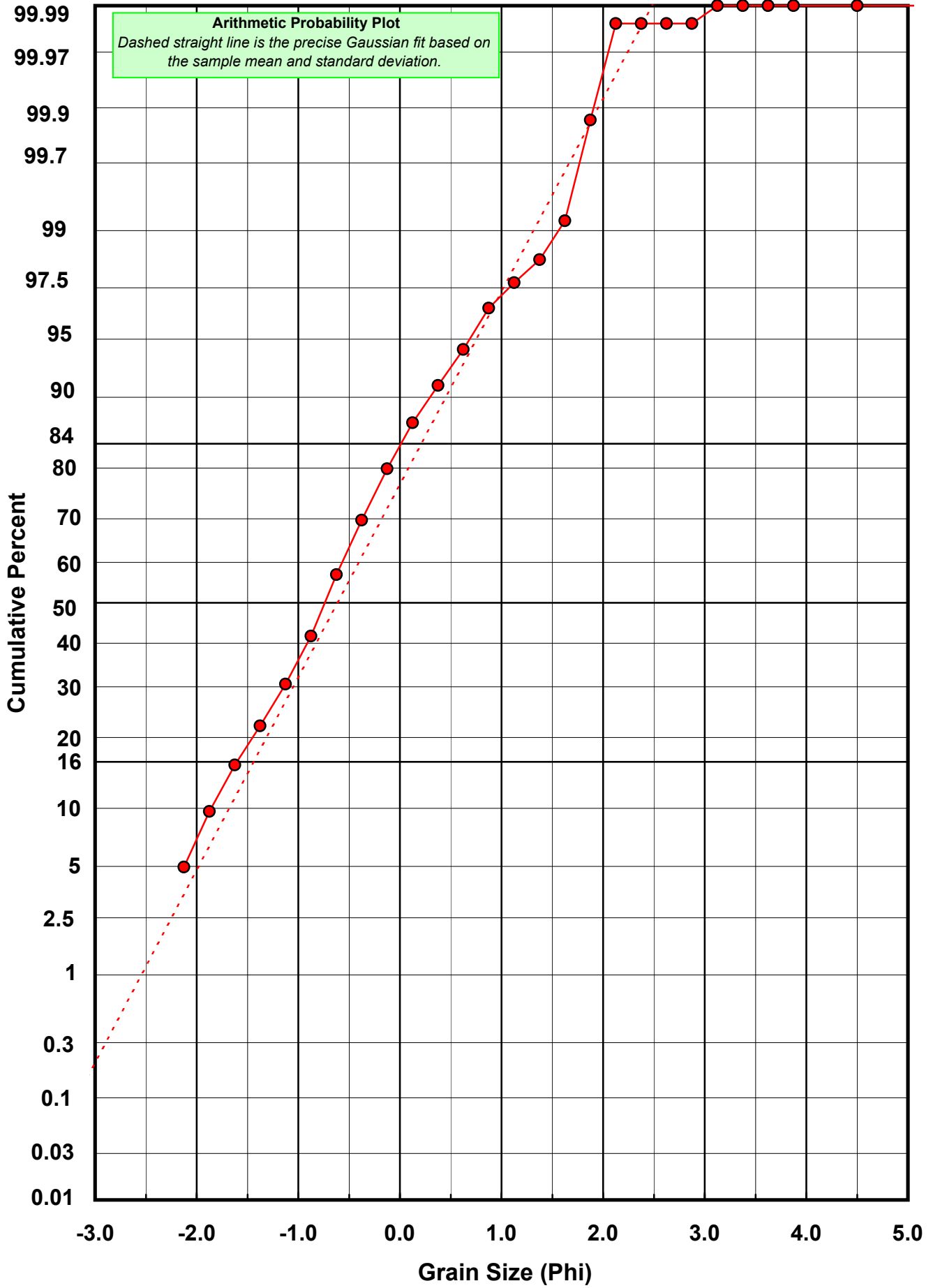
Statistical Results			
Mean:	-0.6139	phi	(1.5303 mm)
Standard Dev:	0.8318	phi-units	(0.5618 mm)
Skewness:	0.3289	dimensionless	
Kurtosis:	3.1509	dimensionless	
5th Moment:	3.7494	dimensionless	
6th Moment:	16.9183	dimensionless	
RARD *	1.3551	dimensionless	
Median	-0.7399	phi	(1.6701 mm)

\* 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-MB

Total Digested Mass: 17.684 grams

% Silica: 21.0 %

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	0.089	0.503	0.503
-0.50	-0.625	0.103	0.582	1.086
-0.25	-0.375	0.237	1.340	2.426
0.00	-0.125	0.320	1.810	4.235
0.25	0.125	0.438	2.477	6.712
0.50	0.375	0.463	2.618	9.330
0.75	0.625	0.619	3.500	12.831
1.00	0.875	1.264	7.148	19.979
1.25	1.125	1.367	7.730	27.709
1.50	1.375	2.044	11.558	39.267
1.75	1.625	2.152	12.169	51.436
2.00	1.875	2.605	14.731	66.167
2.25	2.125	2.173	12.288	78.455
2.50	2.375	1.885	10.659	89.114
2.75	2.625	1.291	7.300	96.415
3.00	2.875	0.490	2.771	99.186
3.25	3.125	0.110	0.622	99.808
3.50	3.375	0.028	0.158	99.966
3.75	3.625	0.005	0.028	99.994
4.00	3.875	0.001	0.006	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.6135	phi	(0.3268 mm)
Standard Dev:	0.8006	phi-units	(0.5741 mm)
Skewness:	-0.6558	dimensionless	
Kurtosis:	3.1016	dimensionless	
5th Moment:	-4.9425	dimensionless	
6th Moment:	16.2069	dimensionless	
RARD *	0.4962	dimensionless	
Median	1.5955	phi	(0.3309 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
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> 1.33	Poor homogeneity (e.g., glacial)

