

Onshore Grab Sample

Sample: FG-07-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Flagler
Latitude: 29° 35' 05.1"
Longitude: 81° 10' 35.7"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 71.146 grams
Total Fines in Sample 0.709 grams
Total Percent Fines 0.99 %

Dry Sieving Summary

Total Sample Weight 70.837 grams
Total Digested Weight 39.903 grams
Total Carbonate Weight 30.934 grams
Total Silica % 56.33 %
Total Carbonate % 43.67 %
Carbonate/Silica Ratio 0.775

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: FG-07-SS

Total Sample Mass: 70.837 grams

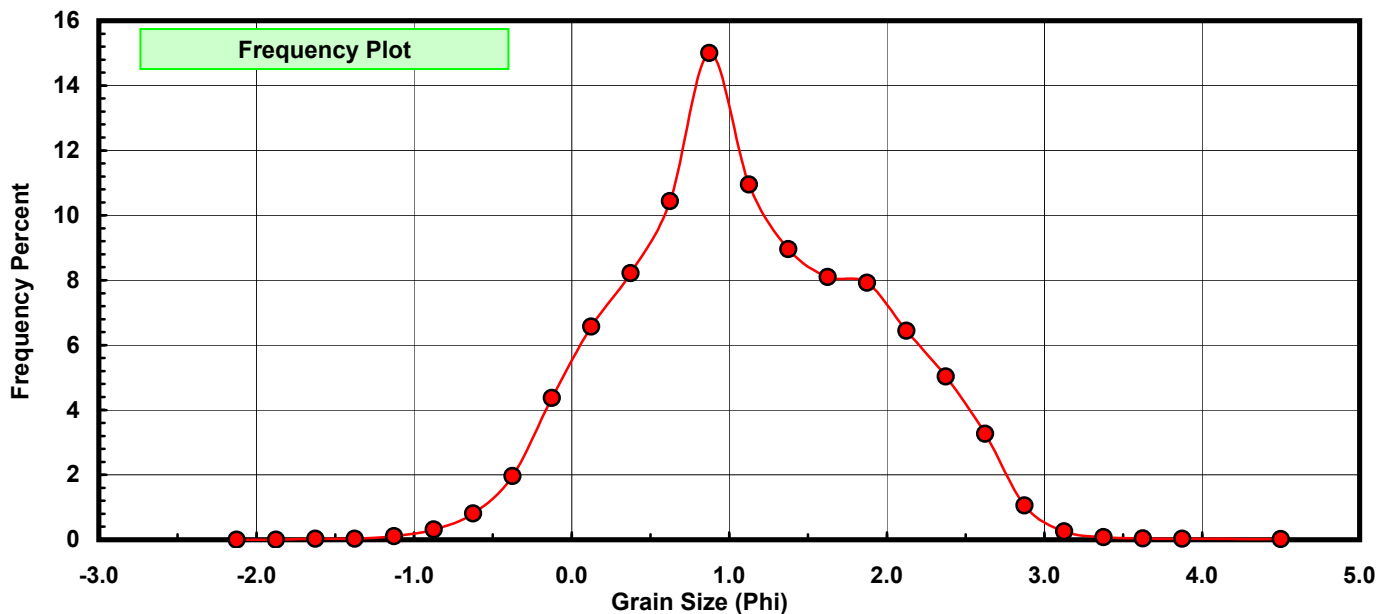
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.018	0.025	0.025
-1.25	-1.375	0.021	0.030	0.055
-1.00	-1.125	0.077	0.109	0.164
-0.75	-0.875	0.227	0.320	0.484
-0.50	-0.625	0.572	0.807	1.292
-0.25	-0.375	1.393	1.966	3.258
0.00	-0.125	3.094	4.368	7.626
0.25	0.125	4.657	6.574	14.200
0.50	0.375	5.820	8.216	22.416
0.75	0.625	7.396	10.441	32.857
1.00	0.875	10.627	15.002	47.859
1.25	1.125	7.758	10.952	58.811
1.50	1.375	6.342	8.953	67.764
1.75	1.625	5.736	8.097	75.861
2.00	1.875	5.612	7.922	83.784
2.25	2.125	4.560	6.437	90.221
2.50	2.375	3.566	5.034	95.255
2.75	2.625	2.310	3.261	98.516
3.00	2.875	0.747	1.055	99.571
3.25	3.125	0.181	0.256	99.826
3.50	3.375	0.059	0.083	99.910
3.75	3.625	0.029	0.041	99.951
4.00	3.875	0.019	0.027	99.977
5.00	4.500	0.016	0.023	100.000

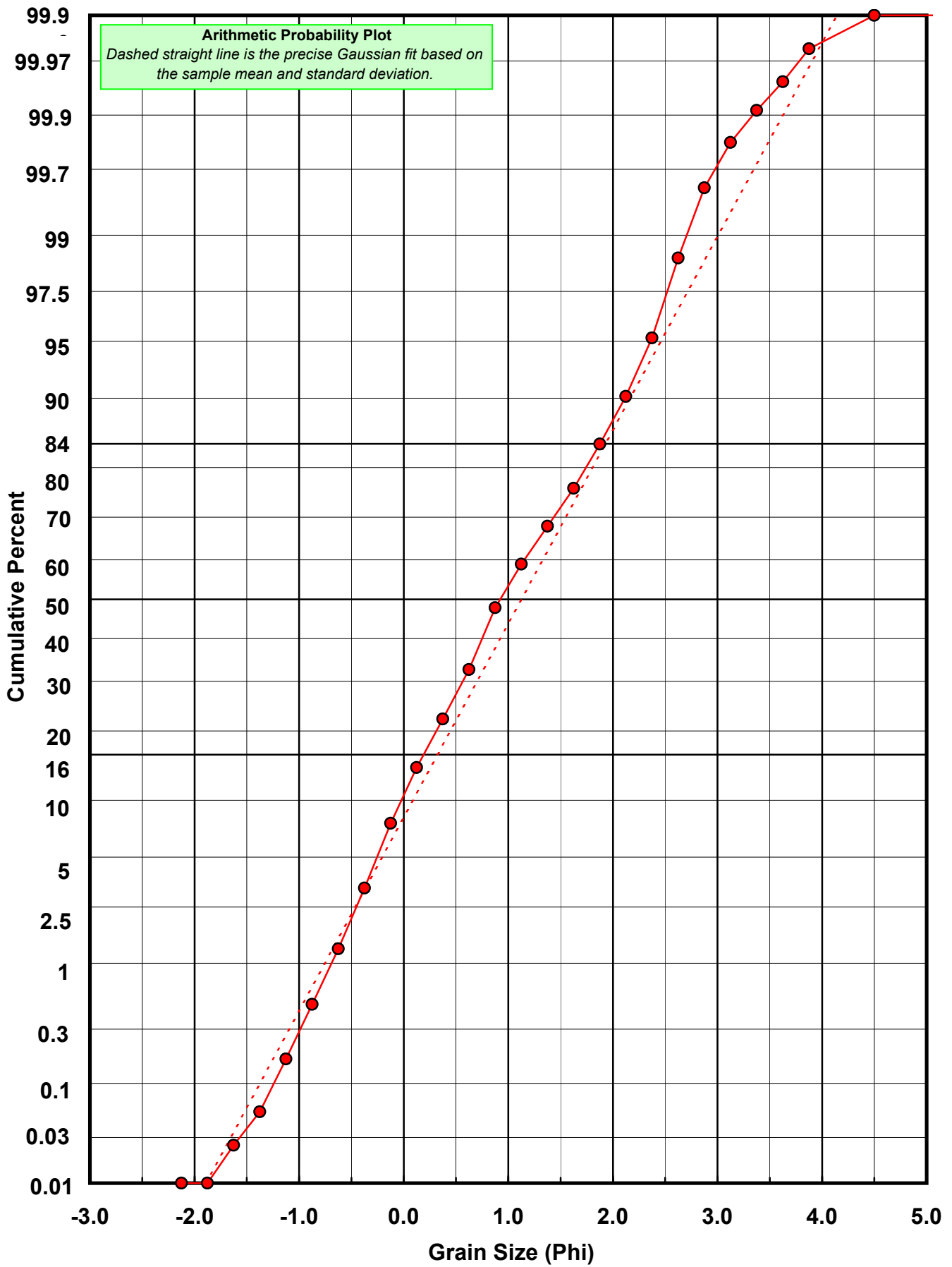
Statistical Results			
Mean:	1.1259	phi	(0.4582 mm)
Standard Dev:	0.8104	phi-units	(0.5702 mm)
Skewness:	0.1228	dimensionless	
Kurtosis:	2.5645	dimensionless	
5th Moment:	0.6626	dimensionless	
6th Moment:	10.7410	dimensionless	
RARD *	0.7198	dimensionless	
Median	0.9239	phi	(0.5271 mm)

* 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-07-SS

Total Carbonate Mass: 31.066 grams

% Carbonate: 43.7 %

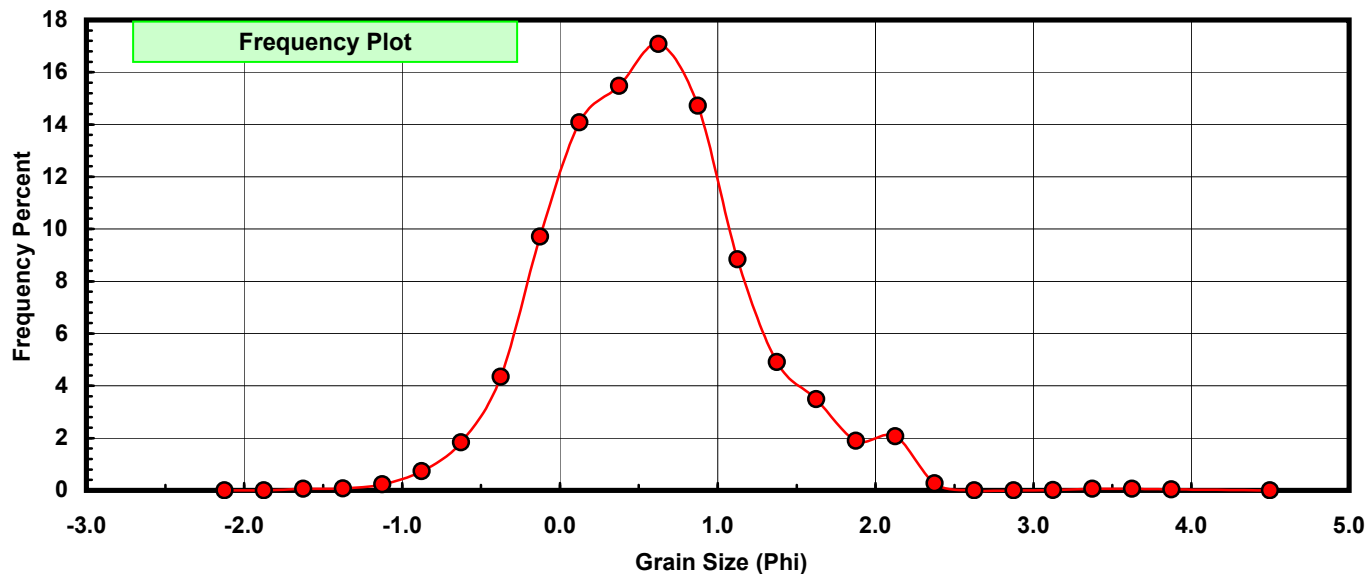
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.018	0.058	0.058
-1.25	-1.375	0.021	0.068	0.126
-1.00	-1.125	0.073	0.235	0.361
-0.75	-0.875	0.227	0.731	1.091
-0.50	-0.625	0.572	1.841	2.932
-0.25	-0.375	1.352	4.352	7.284
0.00	-0.125	3.015	9.705	16.990
0.25	0.125	4.374	14.080	31.069
0.50	0.375	4.808	15.477	46.546
0.75	0.625	5.306	17.080	63.626
1.00	0.875	4.574	14.723	78.349
1.25	1.125	2.747	8.842	87.192
1.50	1.375	1.526	4.912	92.104
1.75	1.625	1.085	3.493	95.596
2.00	1.875	0.589	1.896	97.492
2.25	2.125	0.643	2.070	99.562
2.50	2.375	0.083	0.267	99.829
2.75	2.625	0.000	0.000	99.829
3.00	2.875	0.000	0.000	99.829
3.25	3.125	0.004	0.013	99.842
3.50	3.375	0.019	0.061	99.903
3.75	3.625	0.018	0.058	99.961
4.00	3.875	0.012	0.039	100.000
5.00	4.500	0.000	0.000	100.000

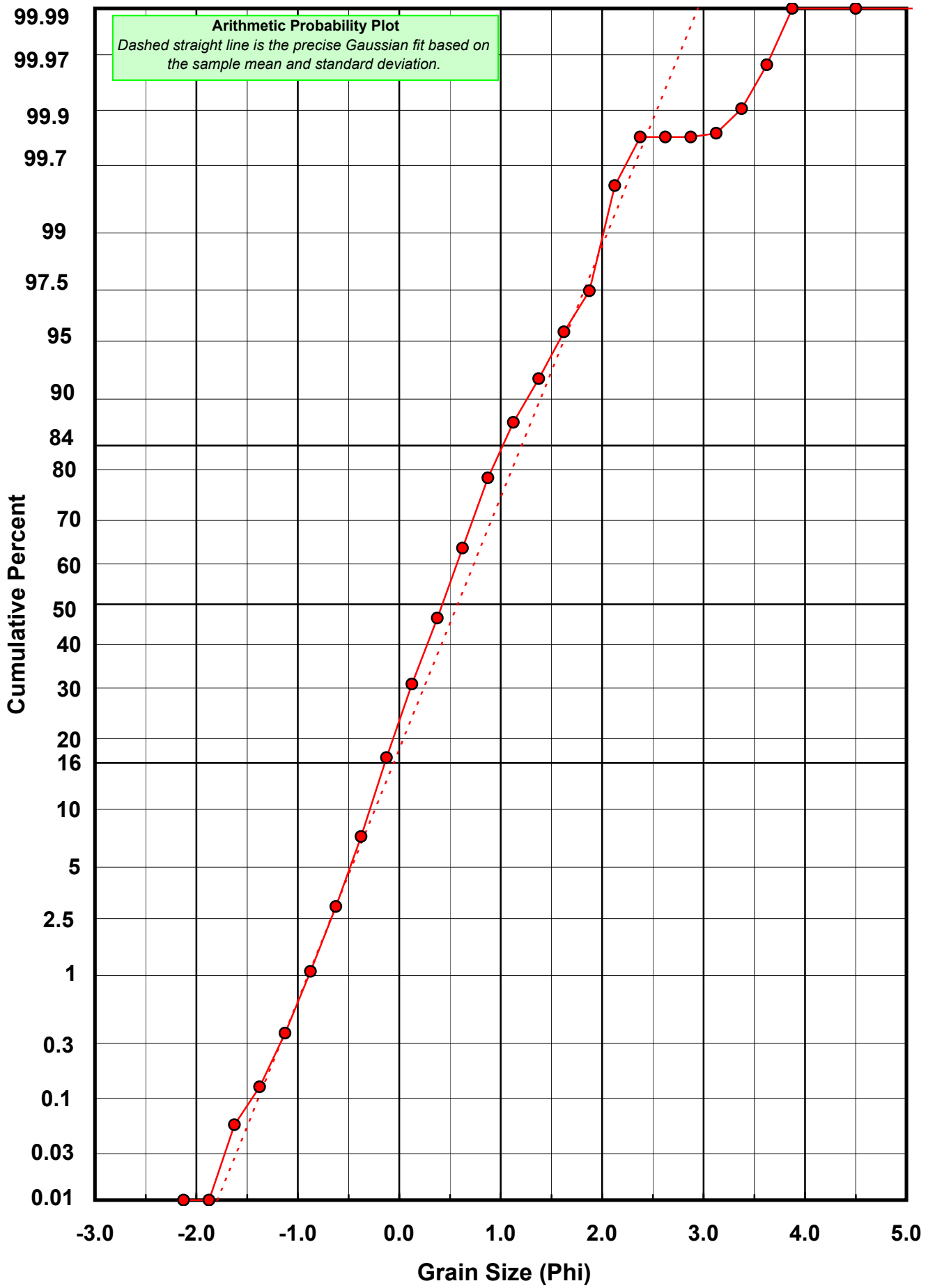
Statistical Results			
Mean:	0.5761	phi	(0.6708 mm)
Standard Dev:	0.6361	phi-units	(0.6434 mm)
Skewness:	0.4085	dimensionless	
Kurtosis:	3.7254	dimensionless	
5th Moment:	5.5964	dimensionless	
6th Moment:	33.5426	dimensionless	
RARD *	1.1042	dimensionless	
Median	0.4256	phi	(0.7446 mm)

* 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-07-SS

Total Digested Mass: 39.903 grams

% Silica: 56.3 %

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	0.004	0.010	0.010
-0.75	-0.875	0.000	0.000	0.010
-0.50	-0.625	0.000	0.000	0.010
-0.25	-0.375	0.041	0.103	0.113
0.00	-0.125	0.079	0.198	0.311
0.25	0.125	0.283	0.709	1.020
0.50	0.375	1.012	2.536	3.556
0.75	0.625	2.090	5.238	8.794
1.00	0.875	6.053	15.169	23.963
1.25	1.125	5.011	12.558	36.521
1.50	1.375	4.816	12.069	48.590
1.75	1.625	4.651	11.656	60.246
2.00	1.875	5.023	12.588	72.834
2.25	2.125	3.917	9.816	82.650
2.50	2.375	3.483	8.729	91.379
2.75	2.625	2.376	5.954	97.334
3.00	2.875	0.829	2.078	99.411
3.25	3.125	0.177	0.444	99.855
3.50	3.375	0.040	0.100	99.955
3.75	3.625	0.011	0.028	99.982
4.00	3.875	0.007	0.018	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.5586	phi	(0.3395 mm)
Standard Dev:	0.6620	phi-units	(0.632 mm)
Skewness:	0.1158	dimensionless	
Kurtosis:	2.2955	dimensionless	
5th Moment:	0.4320	dimensionless	
6th Moment:	8.4484	dimensionless	
RARD *	0.4248	dimensionless	
Median	1.4052	phi	(0.3776 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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> 1.33	Poor homogeneity (e.g., glacial)

