

Onshore Grab Sample

Sample: DU-01-MB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 23' 29.3"
Longitude: 81° 23' 39.5"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	50.349 grams
Total Fines in Sample	0.072 grams
Total Percent Fines	0.14 %

Dry Sieving Summary

Total Sample Weight	50.260 grams
Total Digested Weight	48.488 grams
Total Carbonate Weight	1.772 grams
Total Silica %	96.47 %
Total Carbonate %	3.53 %
Carbonate/Silica Ratio	0.037

General Comments:

None

Description

Worked By: C. Fischler
Reviewed and Edited By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-01-MB

Total Sample Mass: 50.260 grams

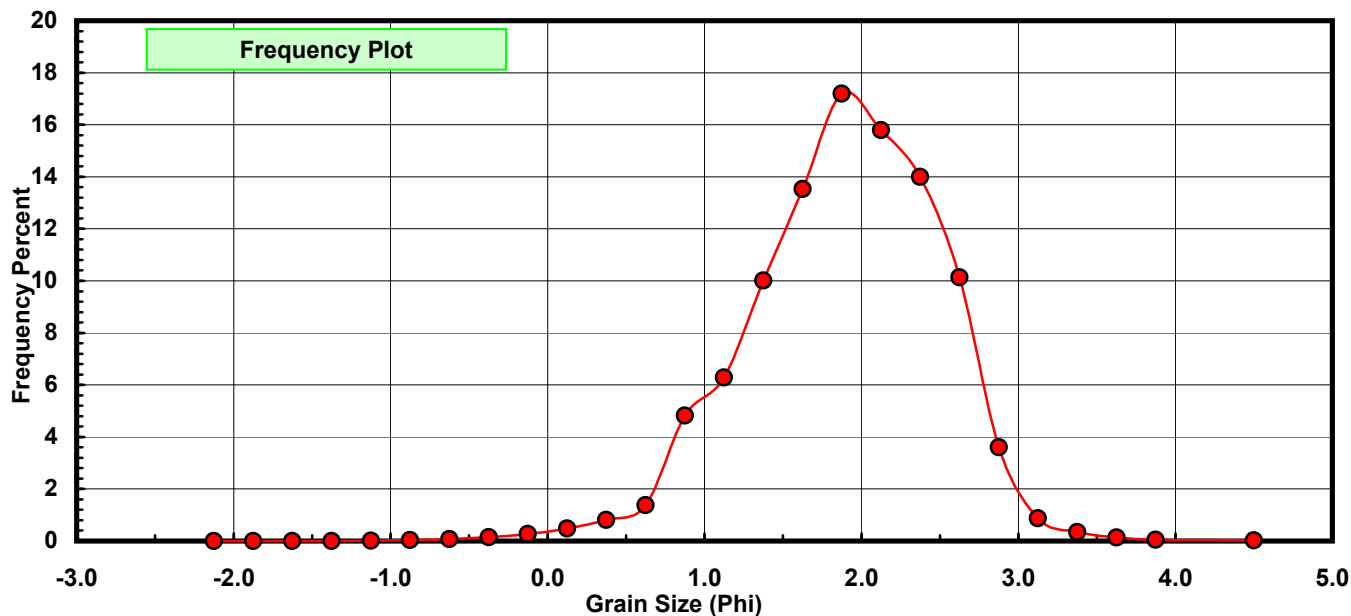
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.006	0.012	0.012
-0.75	-0.875	0.016	0.032	0.044
-0.50	-0.625	0.040	0.080	0.123
-0.25	-0.375	0.075	0.149	0.273
0.00	-0.125	0.138	0.275	0.547
0.25	0.125	0.240	0.478	1.025
0.50	0.375	0.405	0.806	1.830
0.75	0.625	0.692	1.377	3.207
1.00	0.875	2.423	4.821	8.028
1.25	1.125	3.158	6.283	14.312
1.50	1.375	5.033	10.014	24.326
1.75	1.625	6.801	13.532	37.857
2.00	1.875	8.642	17.195	55.052
2.25	2.125	7.939	15.796	70.848
2.50	2.375	7.038	14.003	84.851
2.75	2.625	5.091	10.129	94.980
3.00	2.875	1.812	3.605	98.585
3.25	3.125	0.436	0.867	99.453
3.50	3.375	0.175	0.348	99.801
3.75	3.625	0.068	0.135	99.936
4.00	3.875	0.022	0.044	99.980
5.00	4.500	0.010	0.020	100.000

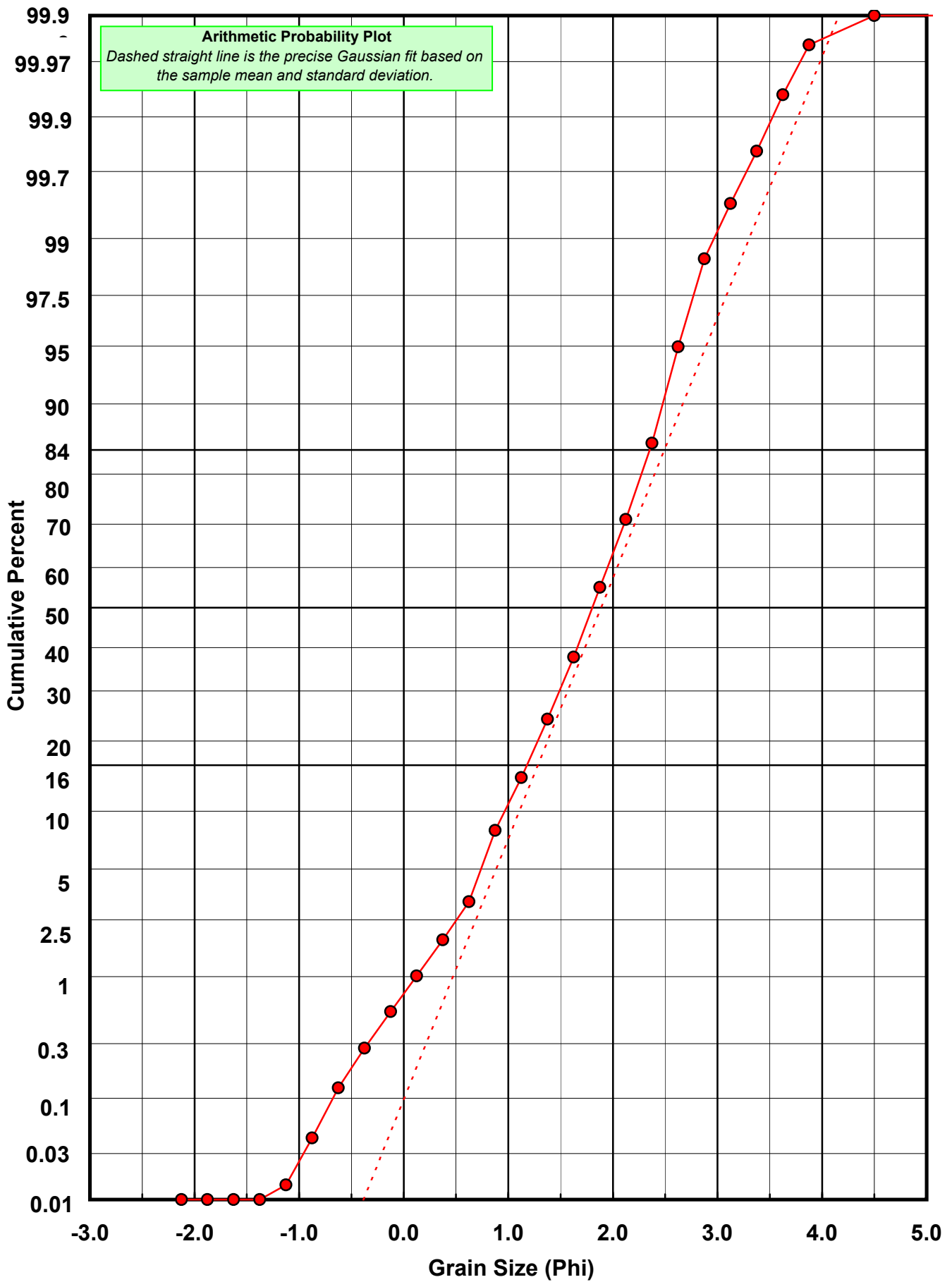
Statistical Results			
Mean:	1.8874	phi	(0.2703 mm)
Standard Dev:	0.6100	phi-units	(0.6552 mm)
Skewness:	-0.4586	dimensionless	
Kurtosis:	3.5762	dimensionless	
5th Moment:	-5.1947	dimensionless	
6th Moment:	28.1707	dimensionless	
RARD *	0.3232	dimensionless	
Median	1.8016	phi	(0.2869 mm)

* 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: DU-01-MB

Total Carbonate Mass: 1.908 grams

% Carbonate: 3.5 %

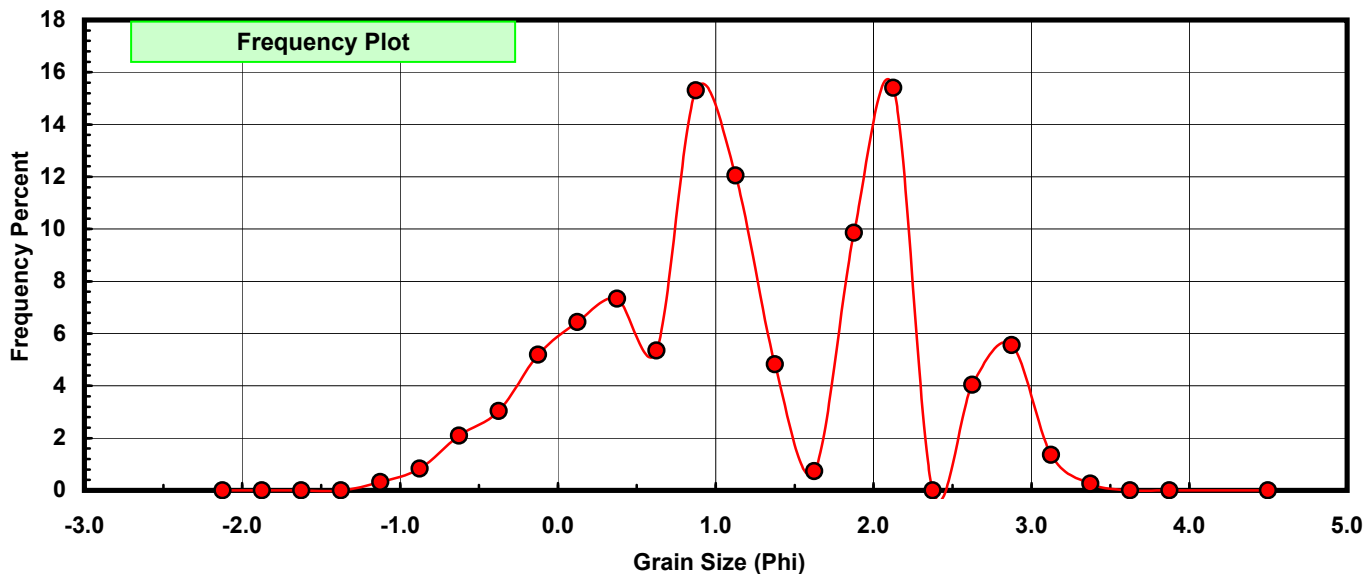
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.006	0.314	0.314
-0.75	-0.875	0.016	0.839	1.153
-0.50	-0.625	0.040	2.096	3.249
-0.25	-0.375	0.058	3.040	6.289
0.00	-0.125	0.099	5.189	11.478
0.25	0.125	0.123	6.447	17.925
0.50	0.375	0.140	7.338	25.262
0.75	0.625	0.102	5.346	30.608
1.00	0.875	0.292	15.304	45.912
1.25	1.125	0.230	12.055	57.966
1.50	1.375	0.092	4.822	62.788
1.75	1.625	0.014	0.734	63.522
2.00	1.875	0.188	9.853	73.375
2.25	2.125	0.294	15.409	88.784
2.50	2.375	0.000	0.000	88.784
2.75	2.625	0.077	4.036	92.820
3.00	2.875	0.106	5.556	98.375
3.25	3.125	0.026	1.363	99.738
3.50	3.375	0.005	0.262	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

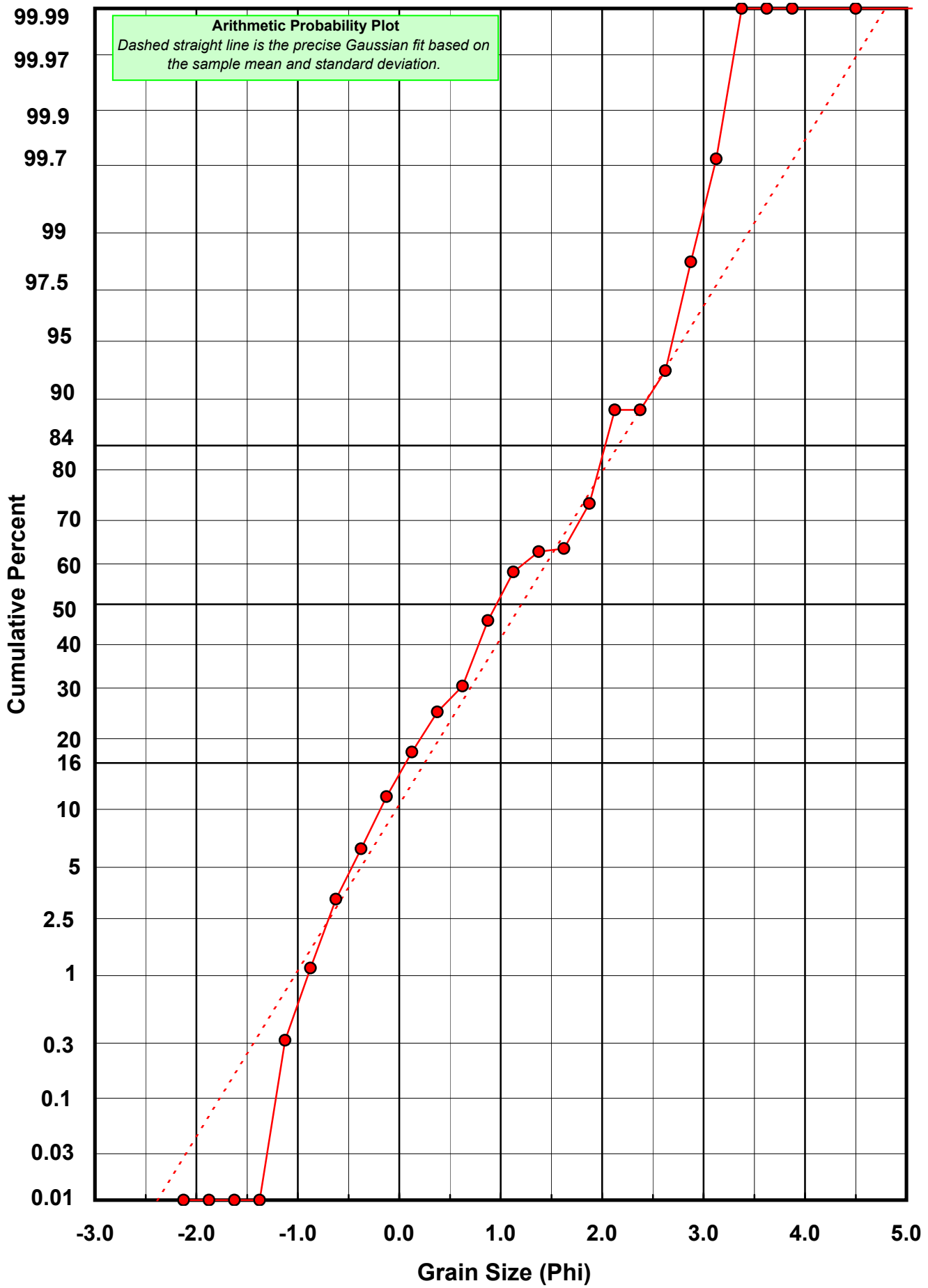
Statistical Results			
Mean:	1.2041	phi	(0.434 mm)
Standard Dev:	0.9636	phi-units	(0.5128 mm)
Skewness:	0.0285	dimensionless	
Kurtosis:	2.2463	dimensionless	
5th Moment:	-0.0675	dimensionless	
6th Moment:	6.8092	dimensionless	
RARD *	0.8003	dimensionless	
Median	0.9598	phi	(0.5141 mm)

* 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: DU-01-MB

Total Digested Mass: 48.480 grams

% Silica: 96.5 %

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	0.017	0.035	0.035
0.00	-0.125	0.039	0.080	0.116
0.25	0.125	0.117	0.241	0.357
0.50	0.375	0.265	0.547	0.903
0.75	0.625	0.590	1.217	2.120
1.00	0.875	2.131	4.396	6.516
1.25	1.125	2.928	6.040	12.556
1.50	1.375	4.941	10.192	22.748
1.75	1.625	6.787	14.000	36.747
2.00	1.875	8.454	17.438	54.185
2.25	2.125	7.645	15.769	69.955
2.50	2.375	7.171	14.792	84.746
2.75	2.625	5.014	10.342	95.089
3.00	2.875	1.706	3.519	98.608
3.25	3.125	0.410	0.846	99.453
3.50	3.375	0.170	0.351	99.804
3.75	3.625	0.073	0.151	99.955
4.00	3.875	0.022	0.045	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.9153	phi	(0.2651 mm)
Standard Dev:	0.5734	phi-units	(0.672 mm)
Skewness:	-0.2659	dimensionless	
Kurtosis:	2.9683	dimensionless	
5th Moment:	-2.1804	dimensionless	
6th Moment:	15.9827	dimensionless	
RARD *	0.2994	dimensionless	
Median	1.8150	phi	(0.2842 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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