

Onshore Grab Sample

Sample: DU-10-MB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 15' 36.8"
Longitude: 81° 22' 54.8"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 48.357 grams
Total Fines in Sample 0.451 grams
Total Percent Fines 0.92 %

Dry Sieving Summary

Total Sample Weight 47.836 grams
Total Digested Weight 47.306 grams
Total Carbonate Weight 0.530 grams
Total Silica % 98.89 %
Total Carbonate % 1.11 %
Carbonate/Silica Ratio 0.011

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-10-MB

Total Sample Mass: 47.836 grams

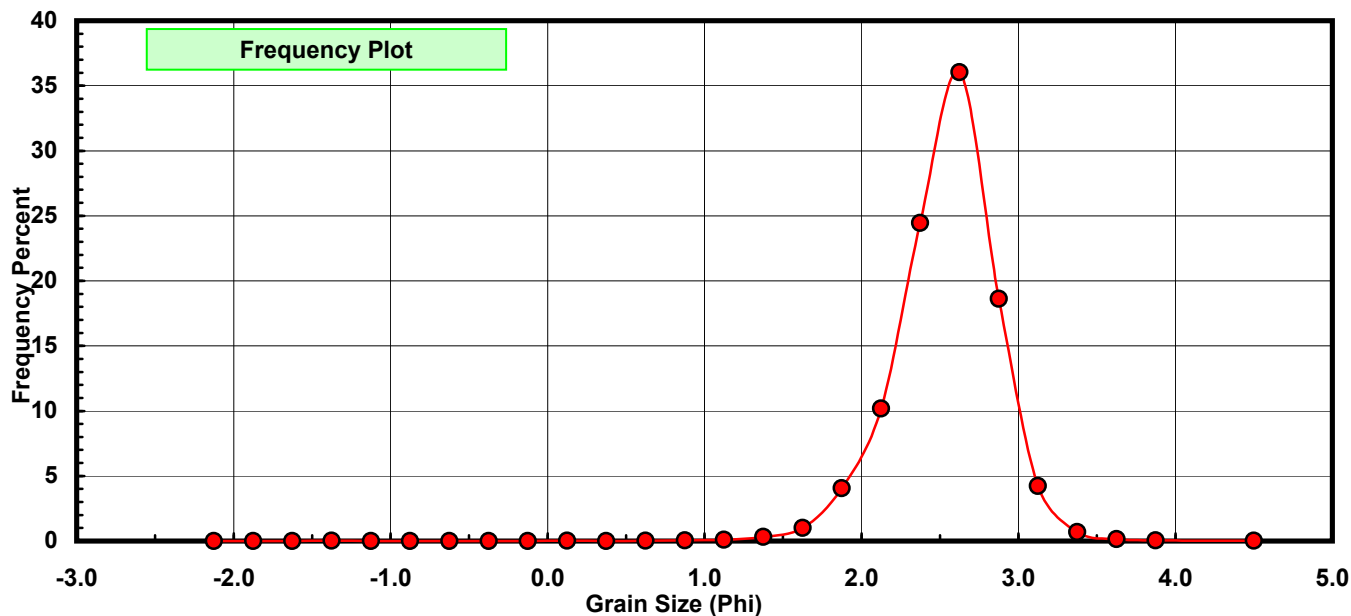
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.010	0.021	0.021
-1.00	-1.125	0.000	0.000	0.021
-0.75	-0.875	0.000	0.000	0.021
-0.50	-0.625	0.000	0.000	0.021
-0.25	-0.375	0.000	0.000	0.021
0.00	-0.125	0.001	0.002	0.023
0.25	0.125	0.006	0.013	0.036
0.50	0.375	0.004	0.008	0.044
0.75	0.625	0.006	0.013	0.056
1.00	0.875	0.021	0.044	0.100
1.25	1.125	0.052	0.109	0.209
1.50	1.375	0.156	0.326	0.535
1.75	1.625	0.480	1.003	1.539
2.00	1.875	1.939	4.053	5.592
2.25	2.125	4.866	10.172	15.764
2.50	2.375	11.698	24.454	40.219
2.75	2.625	17.234	36.027	76.246
3.00	2.875	8.908	18.622	94.868
3.25	3.125	2.025	4.233	99.101
3.50	3.375	0.329	0.688	99.789
3.75	3.625	0.076	0.159	99.948
4.00	3.875	0.019	0.040	99.987
5.00	4.500	0.006	0.013	100.000

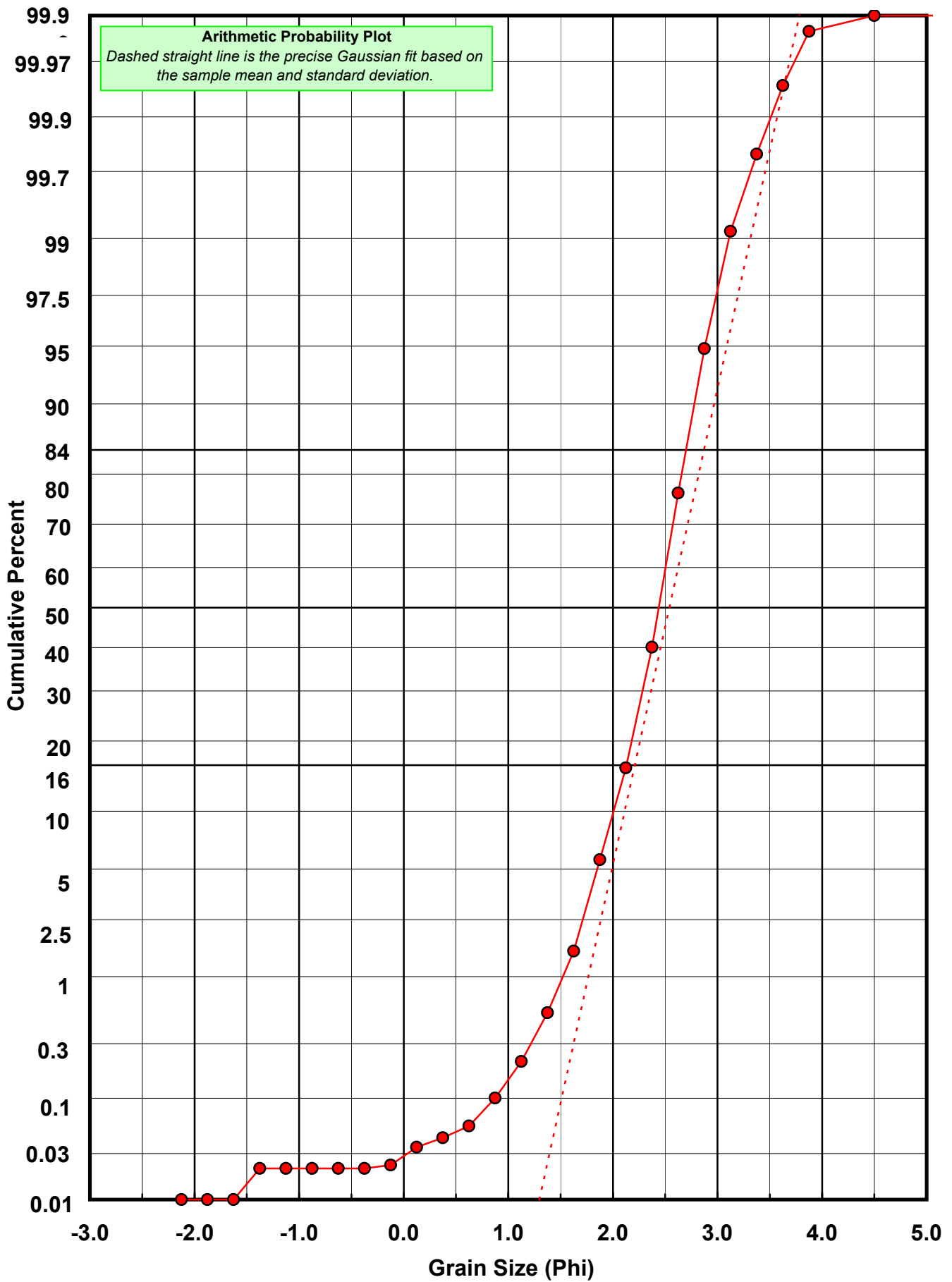
Statistical Results			
Mean:	2.5396	phi	(0.172 mm)
Standard Dev:	0.3338	phi-units	(0.7934 mm)
Skewness:	-0.8495	dimensionless	
Kurtosis:	8.7015	dimensionless	
5th Moment:	-56.6711	dimensionless	
6th Moment:	628.7544	dimensionless	
RARD *	0.1314	dimensionless	
Median	2.4429	phi	(0.1839 mm)

* 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-10-MB

Total Carbonate Mass: 0.857 grams

% Carbonate: 1.1 %

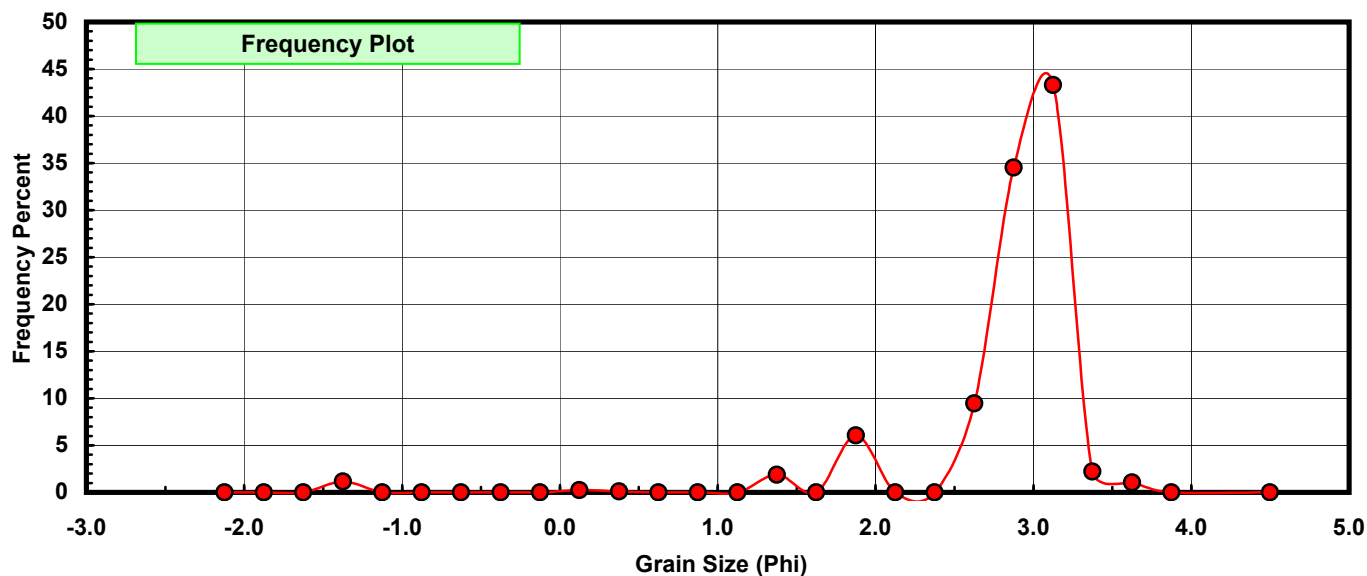
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.010	1.167	1.167
-1.00	-1.125	0.000	0.000	1.167
-0.75	-0.875	0.000	0.000	1.167
-0.50	-0.625	0.000	0.000	1.167
-0.25	-0.375	0.000	0.000	1.167
0.00	-0.125	0.000	0.000	1.167
0.25	0.125	0.002	0.233	1.400
0.50	0.375	0.001	0.117	1.517
0.75	0.625	0.000	0.000	1.517
1.00	0.875	0.000	0.000	1.517
1.25	1.125	0.000	0.000	1.517
1.50	1.375	0.016	1.867	3.384
1.75	1.625	0.000	0.000	3.384
2.00	1.875	0.052	6.068	9.452
2.25	2.125	0.000	0.000	9.452
2.50	2.375	0.000	0.000	9.452
2.75	2.625	0.081	9.452	18.903
3.00	2.875	0.296	34.539	53.442
3.25	3.125	0.371	43.291	96.733
3.50	3.375	0.019	2.217	98.950
3.75	3.625	0.009	1.050	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

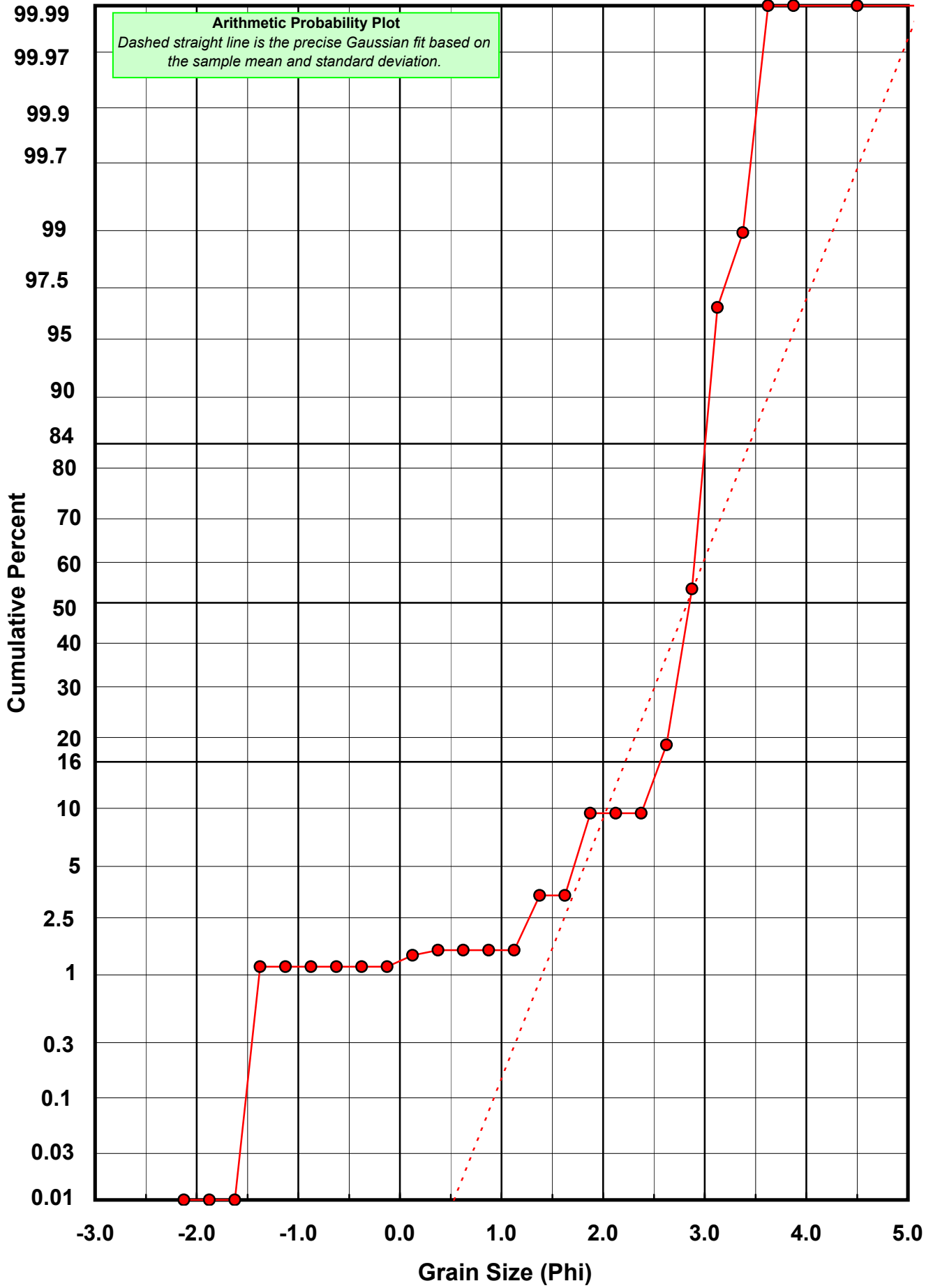
Statistical Results			
Mean:	2.8310	phi	(0.1405 mm)
Standard Dev:	0.6171	phi-units	(0.652 mm)
Skewness:	-4.3536	dimensionless	
Kurtosis:	27.3217	dimensionless	
5th Moment:	-178.3539	dimensionless	
6th Moment:	1194.5624	dimensionless	
RARD *	0.2180	dimensionless	
Median	2.8501	phi	(0.1387 mm)

* 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-10-MB

Total Digested Mass: 47.301 grams

% Silica: 98.9 %

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	0.001	0.002	0.002
0.25	0.125	0.004	0.008	0.011
0.50	0.375	0.003	0.006	0.017
0.75	0.625	0.009	0.019	0.036
1.00	0.875	0.023	0.049	0.085
1.25	1.125	0.053	0.112	0.197
1.50	1.375	0.140	0.296	0.493
1.75	1.625	0.480	1.015	1.507
2.00	1.875	1.887	3.989	5.497
2.25	2.125	5.011	10.594	16.091
2.50	2.375	11.868	25.090	41.181
2.75	2.625	17.153	36.264	77.444
3.00	2.875	8.612	18.207	95.651
3.25	3.125	1.654	3.497	99.148
3.50	3.375	0.310	0.655	99.803
3.75	3.625	0.067	0.142	99.945
4.00	3.875	0.026	0.055	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5322	phi	(0.1729 mm)
Standard Dev:	0.3238	phi-units	(0.799 mm)
Skewness:	-0.5561	dimensionless	
Kurtosis:	4.8793	dimensionless	
5th Moment:	-10.7120	dimensionless	
6th Moment:	74.8712	dimensionless	
RARD *	0.1279	dimensionless	
Median	2.4358	phi	(0.1848 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)

