

Onshore Grab Sample

Sample: MN-05-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/2/09
Splits? N/A

County: Manatee
Latitude: 27° 29' 45"
Longitude: 82° 42' 43.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 65.459 grams
Total Fines in Sample 0.429 grams
Total Percent Fines 0.65 %

Dry Sieving Summary

Total Sample Weight 65.028 grams
Total Digested Weight 39.608 grams
Total Carbonate Weight 25.420 grams
Total Silica % 60.91 %
Total Carbonate % 39.09 %
Carbonate/Silica Ratio 0.642

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MN-05-BB

Total Sample Mass: 65.028 grams

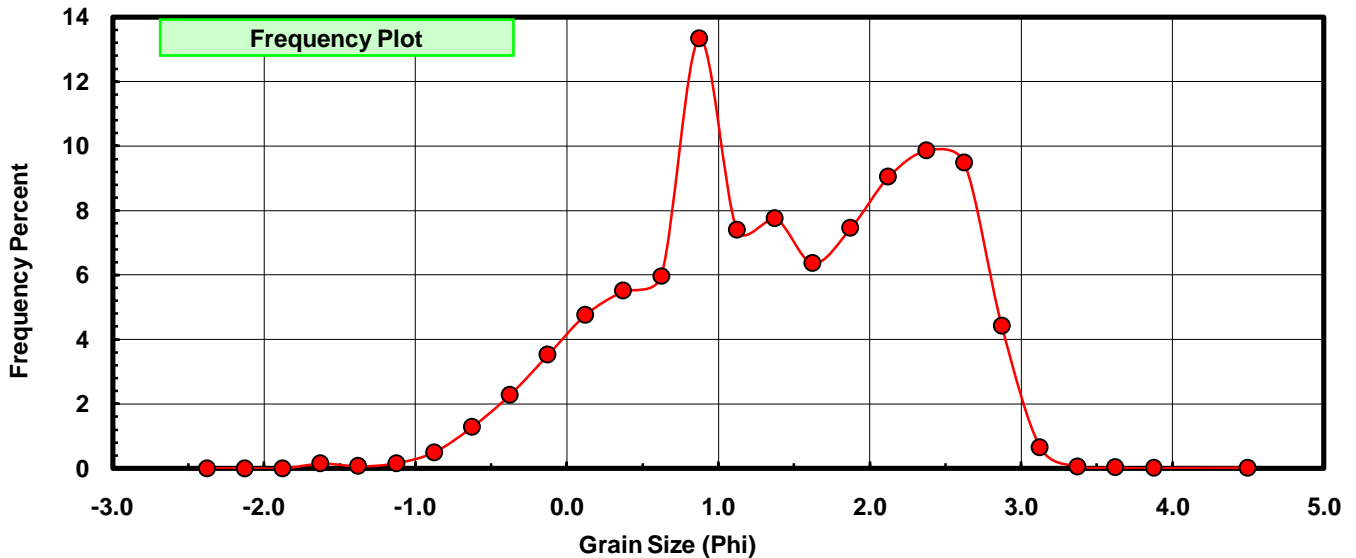
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.096	0.148	0.148
-1.25	-1.375	0.041	0.063	0.211
-1.00	-1.125	0.100	0.154	0.364
-0.75	-0.875	0.319	0.491	0.855
-0.50	-0.625	0.832	1.279	2.134
-0.25	-0.375	1.481	2.277	4.412
0.00	-0.125	2.286	3.515	7.927
0.25	0.125	3.093	4.756	12.684
0.50	0.375	3.581	5.507	18.191
0.75	0.625	3.887	5.977	24.168
1.00	0.875	8.665	13.325	37.493
1.25	1.125	4.813	7.401	44.895
1.50	1.375	5.044	7.757	52.651
1.75	1.625	4.136	6.360	59.012
2.00	1.875	4.846	7.452	66.464
2.25	2.125	5.878	9.039	75.503
2.50	2.375	6.406	9.851	85.354
2.75	2.625	6.167	9.484	94.838
3.00	2.875	2.869	4.412	99.250
3.25	3.125	0.423	0.650	99.900
3.50	3.375	0.037	0.057	99.957
3.75	3.625	0.014	0.022	99.978
4.00	3.875	0.006	0.009	99.988
5.00	4.50	0.008	0.012	100.000

Statistical Results			
Mean:	1.4091	phi	(0.3765 mm)
Standard Dev:	0.9544	phi-units	(0.5161 mm)
Skewness:	-0.2694	dimensionless	
Kurtosis:	2.2521	dimensionless	
5th Moment:	-1.9773	dimensionless	
6th Moment:	8.2474	dimensionless	
RARD *	0.6773	dimensionless	
Median	1.2896	phi	(0.4091 mm)

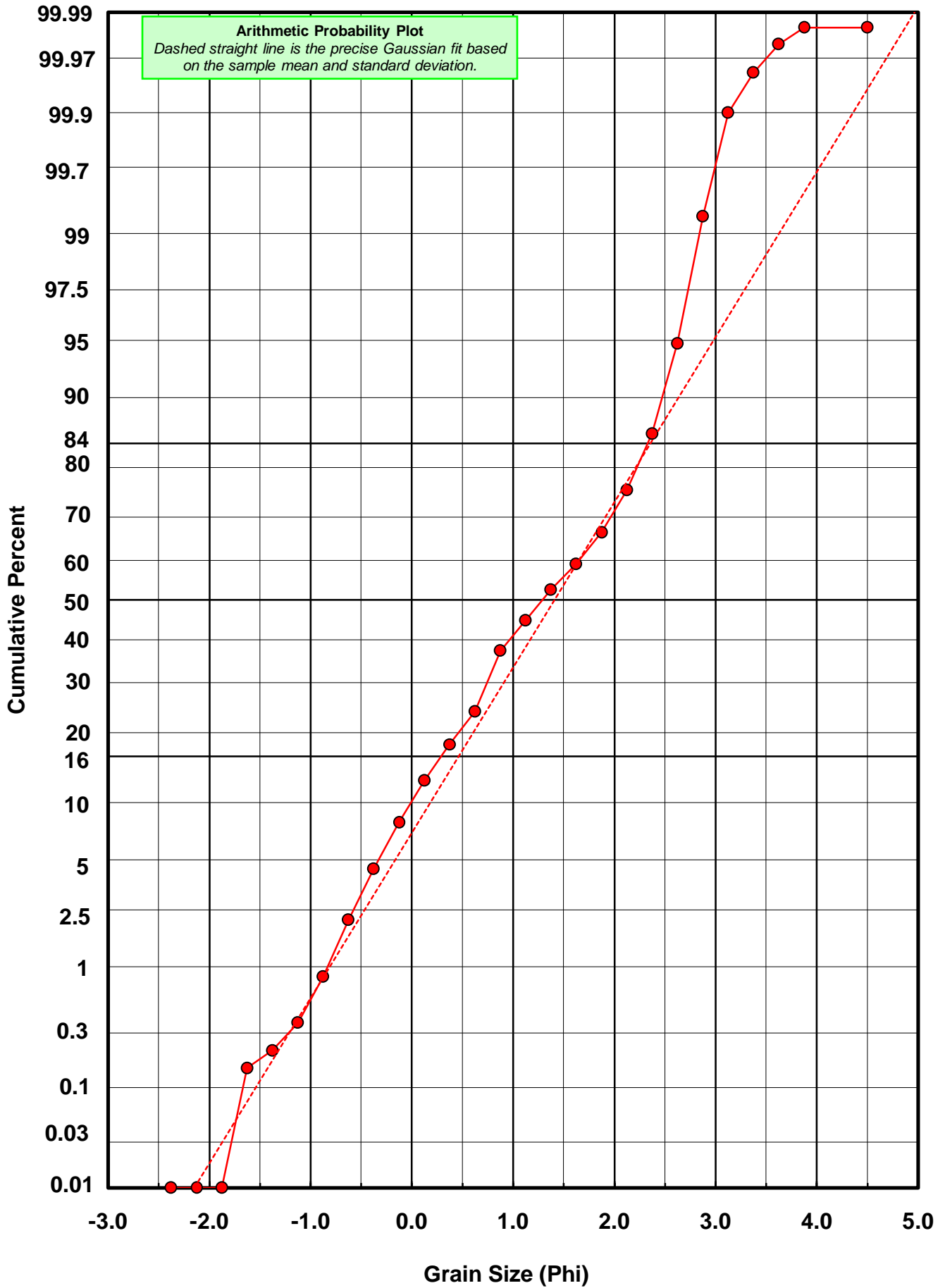
* RARD = reciprocal absolute relative dispersion (see below)

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 Basille et al. 2002	
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)



MN-05-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: MN-05-BB

Total Carbonate Mass: 25.907 grams

% Carbonate: 39.1 %

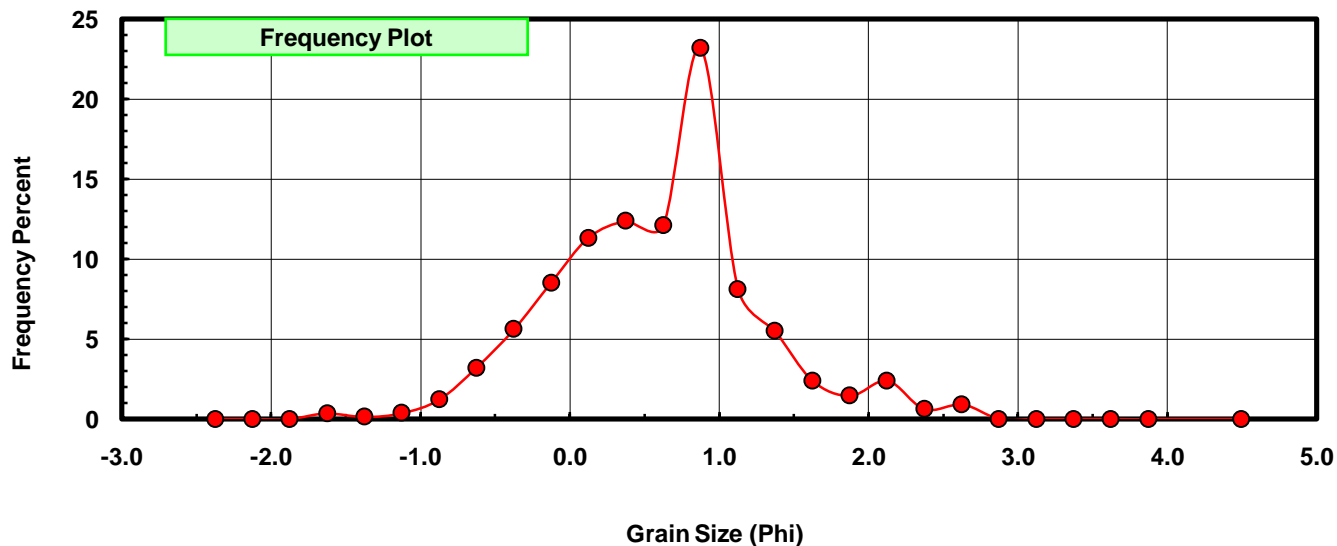
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.096	0.371	0.371
-1.25	-1.375	0.041	0.158	0.529
-1.00	-1.125	0.100	0.386	0.915
-0.75	-0.875	0.319	1.231	2.146
-0.50	-0.625	0.832	3.211	5.358
-0.25	-0.375	1.457	5.624	10.982
0.00	-0.125	2.211	8.534	19.516
0.25	0.125	2.935	11.329	30.845
0.50	0.375	3.211	12.394	43.239
0.75	0.625	3.134	12.097	55.336
1.00	0.875	6.012	23.206	78.542
1.25	1.125	2.105	8.125	86.668
1.50	1.375	1.425	5.500	92.168
1.75	1.625	0.622	2.401	94.569
2.00	1.875	0.379	1.463	96.032
2.25	2.125	0.622	2.401	98.433
2.50	2.375	0.165	0.637	99.070
2.75	2.625	0.239	0.923	99.992
3.00	2.875	0.000	0.000	99.992
3.25	3.125	0.000	0.000	99.992
3.50	3.375	0.000	0.000	99.992
3.75	3.625	0.000	0.000	99.992
4.00	3.875	0.000	0.000	99.992
5.00	4.500	0.002	0.008	100.000

Statistical Results			
Mean:	0.5883	phi	(0.6651 mm)
Standard Dev:	0.7051	phi-units	(0.6134 mm)
Skewness:	0.1408	dimensionless	
Kurtosis:	3.4530	dimensionless	
5th Moment:	1.6986	dimensionless	
6th Moment:	20.9419	dimensionless	
RARD *	1.1984	dimensionless	
Median	0.5147	phi	(0.6999 mm)

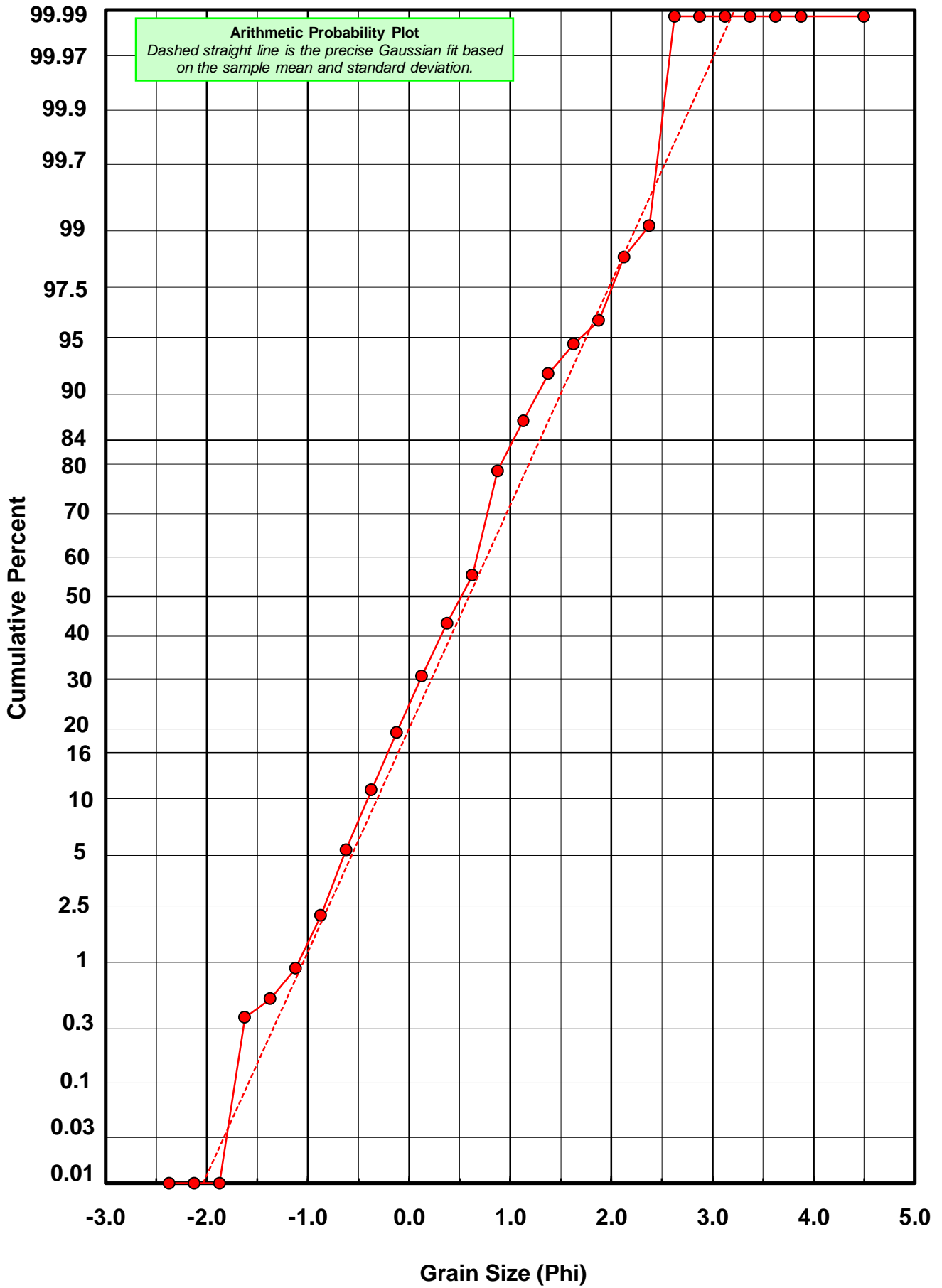
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Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
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Millimeter data calculated by $mm = 2^{-(\phi)}$	

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MN-05-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MN-05-BB

Total Digested Mass: 39.608 grams

% Silica: 60.9 %

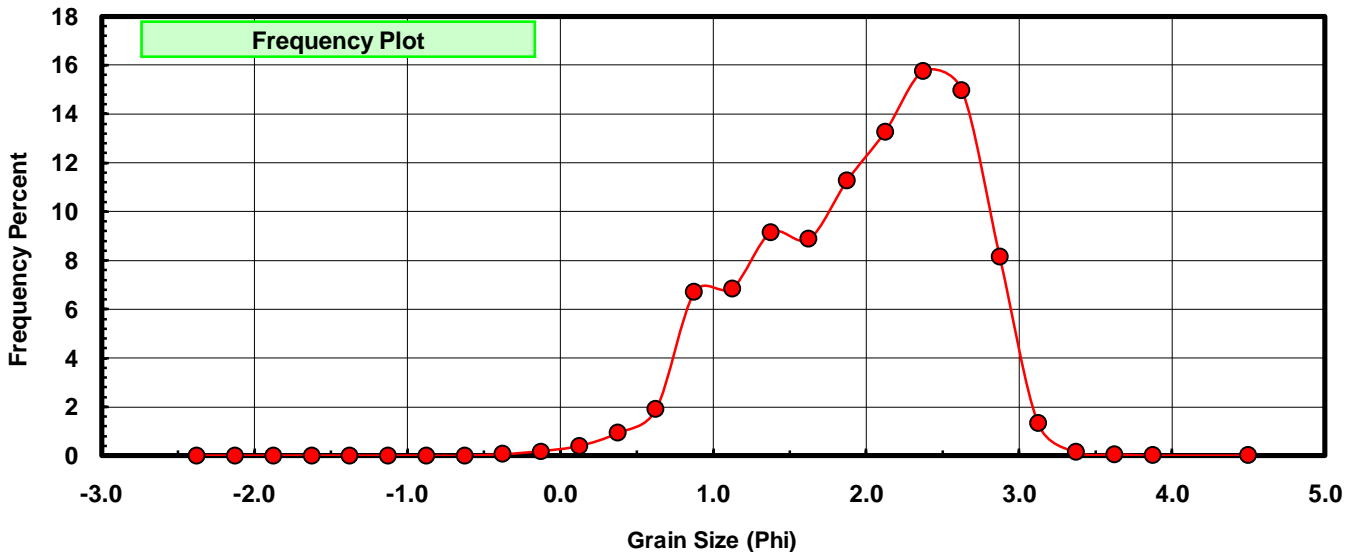
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
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-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.024	0.061	0.061
0.00	-0.125	0.075	0.189	0.250
0.25	0.125	0.158	0.399	0.649
0.50	0.375	0.370	0.934	1.583
0.75	0.625	0.753	1.901	3.484
1.00	0.875	2.653	6.698	10.182
1.25	1.125	2.708	6.837	17.019
1.50	1.375	3.619	9.137	26.156
1.75	1.625	3.514	8.872	35.028
2.00	1.875	4.467	11.278	46.306
2.25	2.125	5.256	13.270	59.576
2.50	2.375	6.241	15.757	75.333
2.75	2.625	5.928	14.967	90.300
3.00	2.875	3.231	8.157	98.457
3.25	3.125	0.523	1.320	99.778
3.50	3.375	0.056	0.141	99.919
3.75	3.625	0.019	0.048	99.967
4.00	3.875	0.007	0.018	99.985
5.00	4.500	0.006	0.015	100.000

Statistical Results			
Mean:	1.9650	phi	(0.2561 mm)
Standard Dev:	0.6717	phi-units	(0.6278 mm)
Skewness:	-0.4617	dimensionless	
Kurtosis:	2.4819	dimensionless	
5th Moment:	-2.8828	dimensionless	
6th Moment:	10.8894	dimensionless	
RARD *	0.3418	dimensionless	
Median	1.9446	phi	(0.2598 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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Millimeter data calculated by $mm = 2^{-(\phi)}$	

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