

Onshore Grab Sample

Sample: MN-15-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/2/09
Splits? N/A

County: Manatee
Latitude: 27° 23' 32.64"
Longitude: 82° 38' 40.8"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	57.212 grams
Total Fines in Sample	0.152 grams
Total Percent Fines	0.26 %

Dry Sieving Summary

Total Sample Weight	57.119 grams
Total Digested Weight	19.266 grams
Total Carbonate Weight	37.853 grams
Total Silica %	33.73 %
Total Carbonate %	66.27 %
Carbonate/Silica Ratio	1.965

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MN-15-BB

Total Sample Mass: 57.119 grams

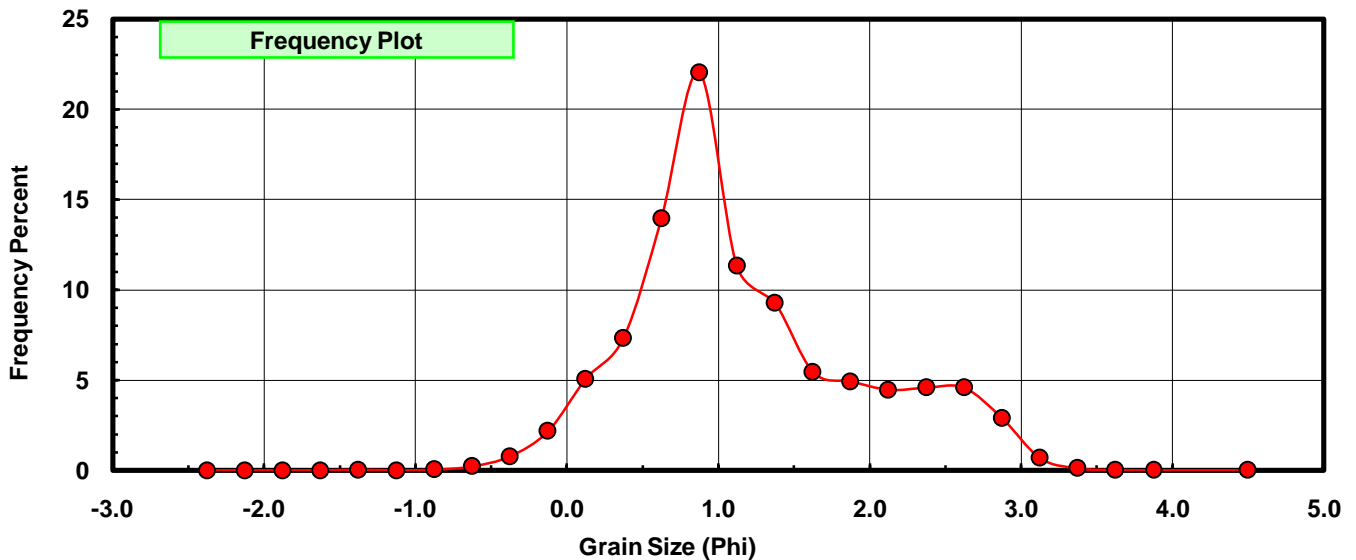
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.017	0.030	0.030
-1.00	-1.125	0.000	0.000	0.030
-0.75	-0.875	0.024	0.042	0.072
-0.50	-0.625	0.128	0.224	0.296
-0.25	-0.375	0.445	0.779	1.075
0.00	-0.125	1.243	2.176	3.251
0.25	0.125	2.890	5.060	8.311
0.50	0.375	4.188	7.332	15.643
0.75	0.625	7.961	13.938	29.580
1.00	0.875	12.595	22.050	51.631
1.25	1.125	6.471	11.329	62.960
1.50	1.375	5.294	9.268	72.228
1.75	1.625	3.111	5.447	77.675
2.00	1.875	2.809	4.918	82.592
2.25	2.125	2.549	4.463	87.055
2.50	2.375	2.620	4.587	91.642
2.75	2.625	2.621	4.589	96.231
3.00	2.875	1.661	2.908	99.139
3.25	3.125	0.390	0.683	99.821
3.50	3.375	0.068	0.119	99.940
3.75	3.625	0.016	0.028	99.968
4.00	3.875	0.008	0.014	99.982
5.00	4.50	0.010	0.018	100.000

Statistical Results			
Mean:	1.1772	phi	(0.4422 mm)
Standard Dev:	0.7772	phi-units	(0.5835 mm)
Skewness:	0.5894	dimensionless	
Kurtosis:	2.8207	dimensionless	
5th Moment:	3.1850	dimensionless	
6th Moment:	12.2268	dimensionless	
RARD *	0.6602	dimensionless	
Median	0.8565	phi	(0.5523 mm)

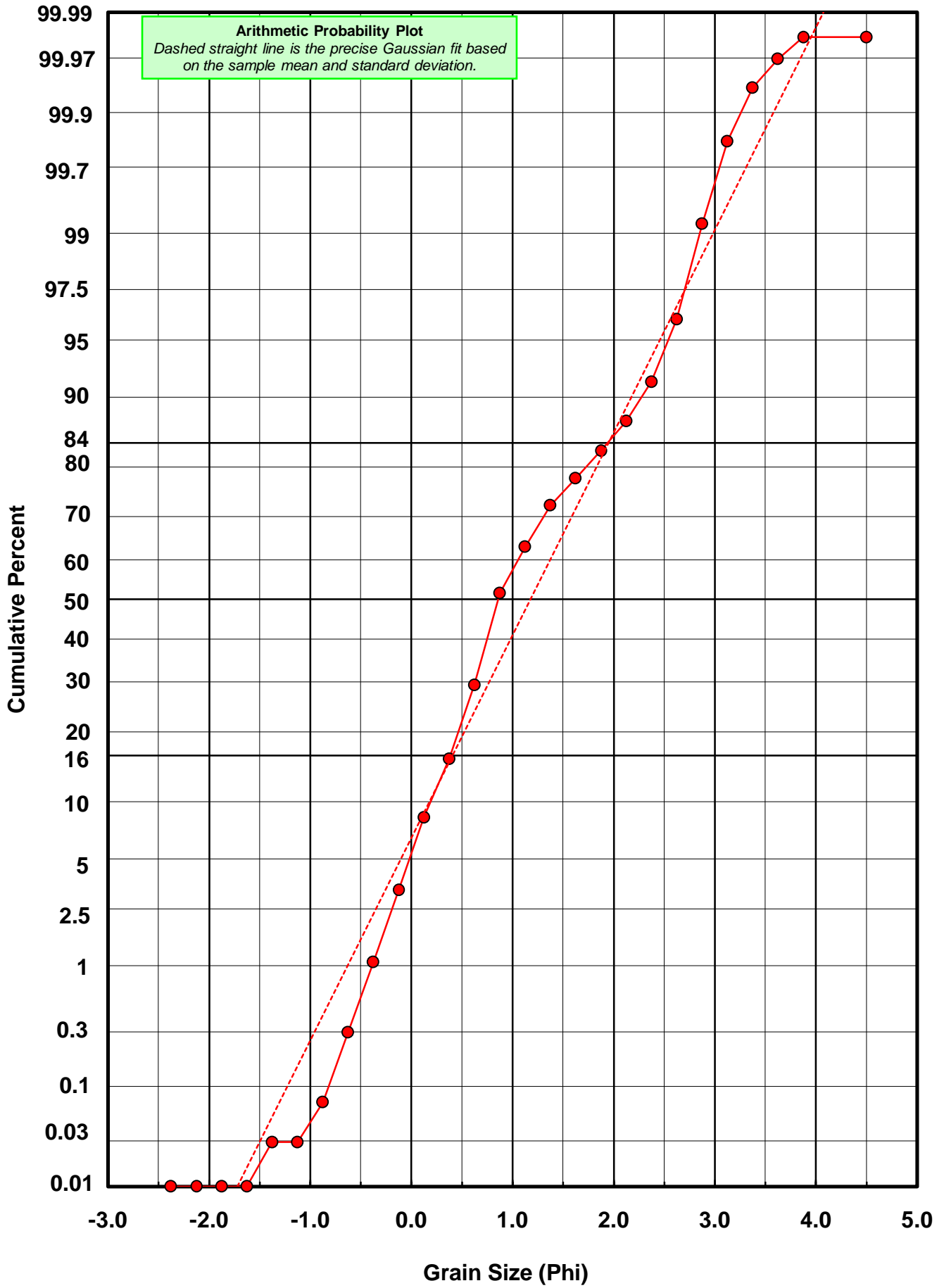
* RARD = reciprocal absolute relative dispersion (see below)

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-15-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: MN-15-BB

Total Carbonate Mass: 38.048 grams

% Carbonate: 66.3 %

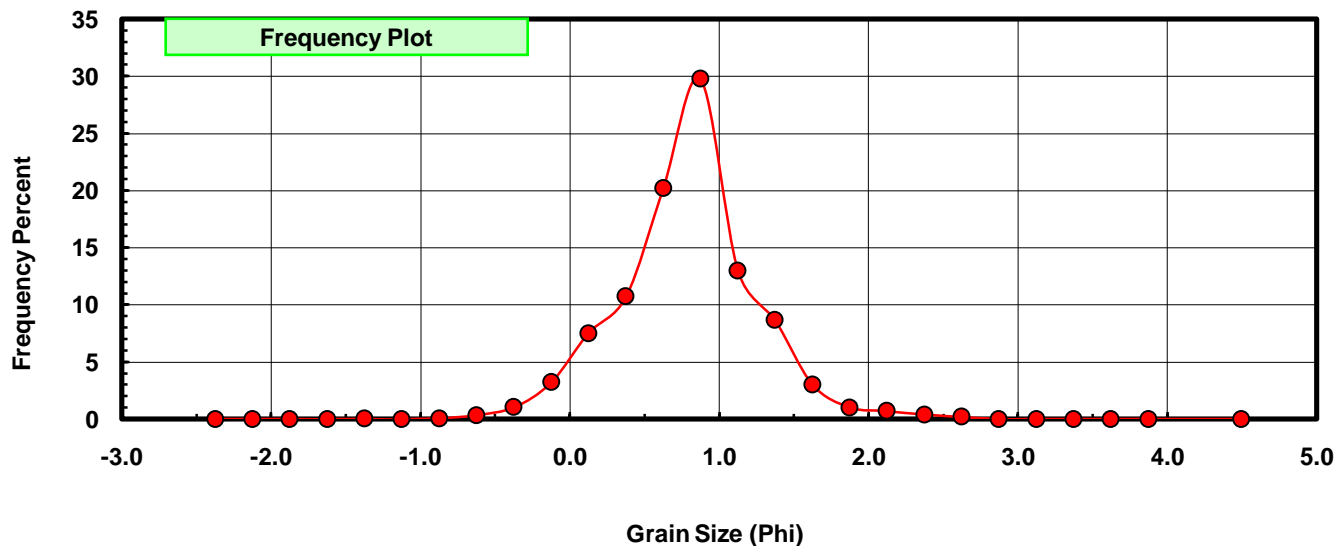
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.017	0.045	0.045
-1.00	-1.125	0.000	0.000	0.045
-0.75	-0.875	0.024	0.063	0.108
-0.50	-0.625	0.128	0.336	0.444
-0.25	-0.375	0.400	1.051	1.495
0.00	-0.125	1.233	3.241	4.736
0.25	0.125	2.855	7.504	12.240
0.50	0.375	4.087	10.742	22.981
0.75	0.625	7.684	20.196	43.177
1.00	0.875	11.330	29.778	72.955
1.25	1.125	4.941	12.986	85.941
1.50	1.375	3.301	8.676	94.617
1.75	1.625	1.154	3.033	97.650
2.00	1.875	0.385	1.012	98.662
2.25	2.125	0.268	0.704	99.367
2.50	2.375	0.156	0.410	99.777
2.75	2.625	0.083	0.218	99.995
3.00	2.875	0.000	0.000	99.995
3.25	3.125	0.000	0.000	99.995
3.50	3.375	0.000	0.000	99.995
3.75	3.625	0.000	0.000	99.995
4.00	3.875	0.000	0.000	99.995
5.00	4.500	0.002	0.005	100.000

Statistical Results			
Mean:	0.7895	phi	(0.5785 mm)
Standard Dev:	0.4749	phi-units	(0.7195 mm)
Skewness:	0.1297	dimensionless	
Kurtosis:	4.2780	dimensionless	
5th Moment:	3.6119	dimensionless	
6th Moment:	44.3194	dimensionless	
RARD *	0.6015	dimensionless	
Median	0.6823	phi	(0.6232 mm)

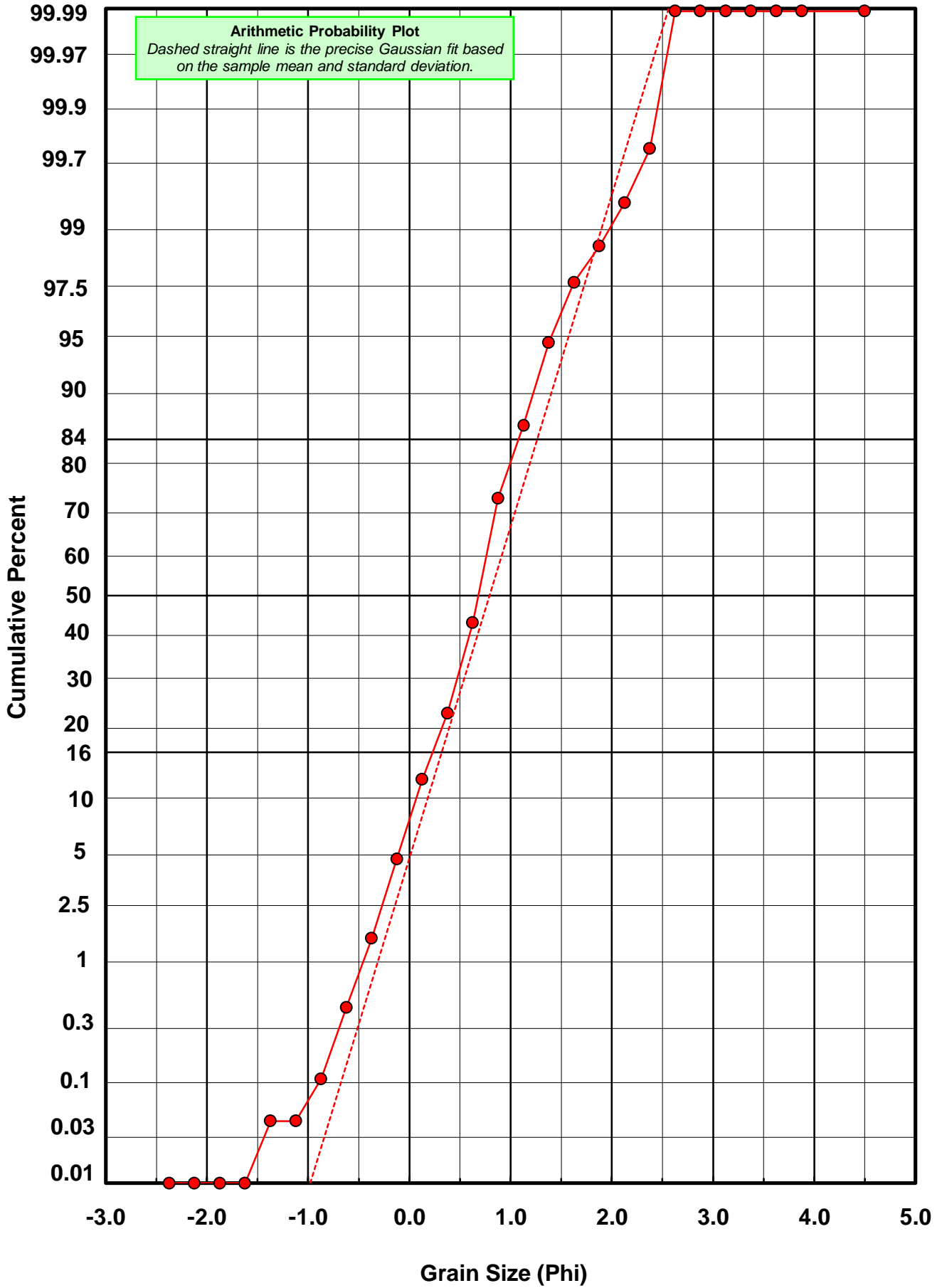
* RARD = reciprocal absolute relative dispersion (see below)

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-15-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MN-15-BB

Total Digested Mass: 19.266 grams

% Silica: 33.7 %

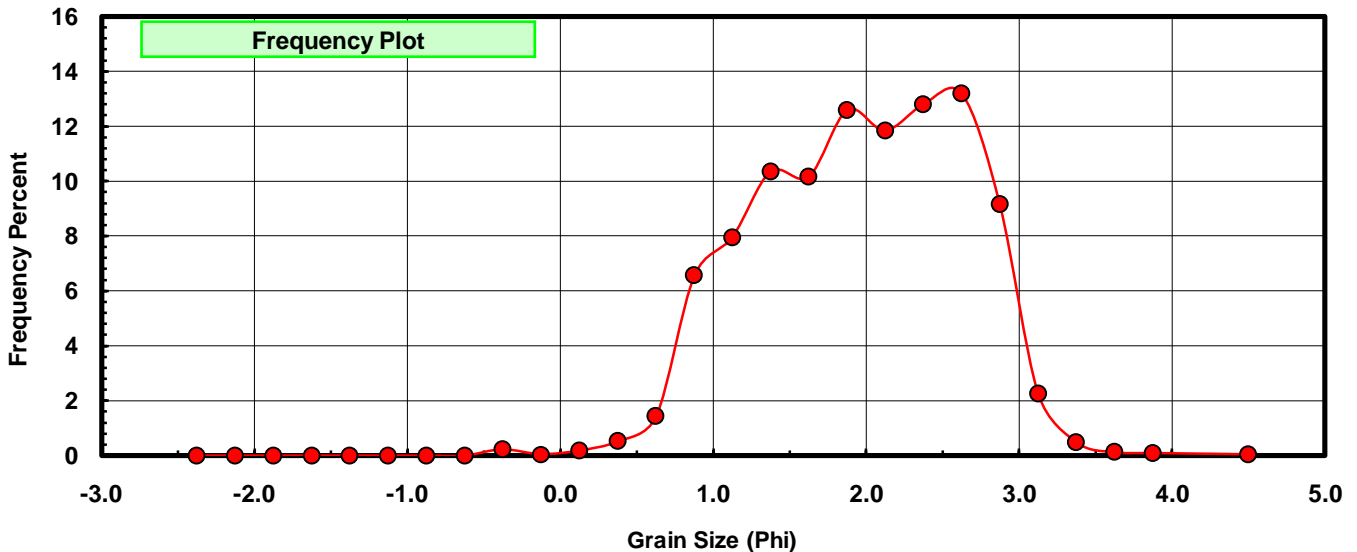
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.045	0.234	0.234
0.00	-0.125	0.010	0.052	0.285
0.25	0.125	0.035	0.182	0.467
0.50	0.375	0.101	0.524	0.991
0.75	0.625	0.277	1.438	2.429
1.00	0.875	1.265	6.566	8.995
1.25	1.125	1.530	7.941	16.937
1.50	1.375	1.993	10.345	27.281
1.75	1.625	1.957	10.158	37.439
2.00	1.875	2.424	12.582	50.021
2.25	2.125	2.281	11.840	61.860
2.50	2.375	2.464	12.789	74.650
2.75	2.625	2.538	13.173	87.823
3.00	2.875	1.765	9.161	96.984
3.25	3.125	0.436	2.263	99.247
3.50	3.375	0.094	0.488	99.735
3.75	3.625	0.025	0.130	99.865
4.00	3.875	0.018	0.093	99.958
5.00	4.500	0.008	0.042	100.000

Statistical Results			
Mean:	1.9621	phi	(0.2566 mm)
Standard Dev:	0.6894	phi-units	(0.6201 mm)
Skewness:	-0.2279	dimensionless	
Kurtosis:	2.4140	dimensionless	
5th Moment:	-1.6218	dimensionless	
6th Moment:	11.2273	dimensionless	
RARD *	0.3514	dimensionless	
Median	1.8746	phi	(0.2727 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-15-BB

