

Onshore Grab Sample

Sample: MT-16-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/17/08
Splits? N/A

County: Martin
Latitude: 27° 05' 16.0"
Longitude: 80° 07' 32.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	50.089 grams
Total Fines in Sample	0.156 grams
Total Percent Fines	0.31 %

Dry Sieving Summary

Total Sample Weight	49.935 grams
Total Digested Weight	14.599 grams
Total Carbonate Weight	35.336 grams
Total Silica %	29.24 %
Total Carbonate %	70.76 %
Carbonate/Silica Ratio	2.420

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MT-16-BB

Total Sample Mass: 49.935 grams

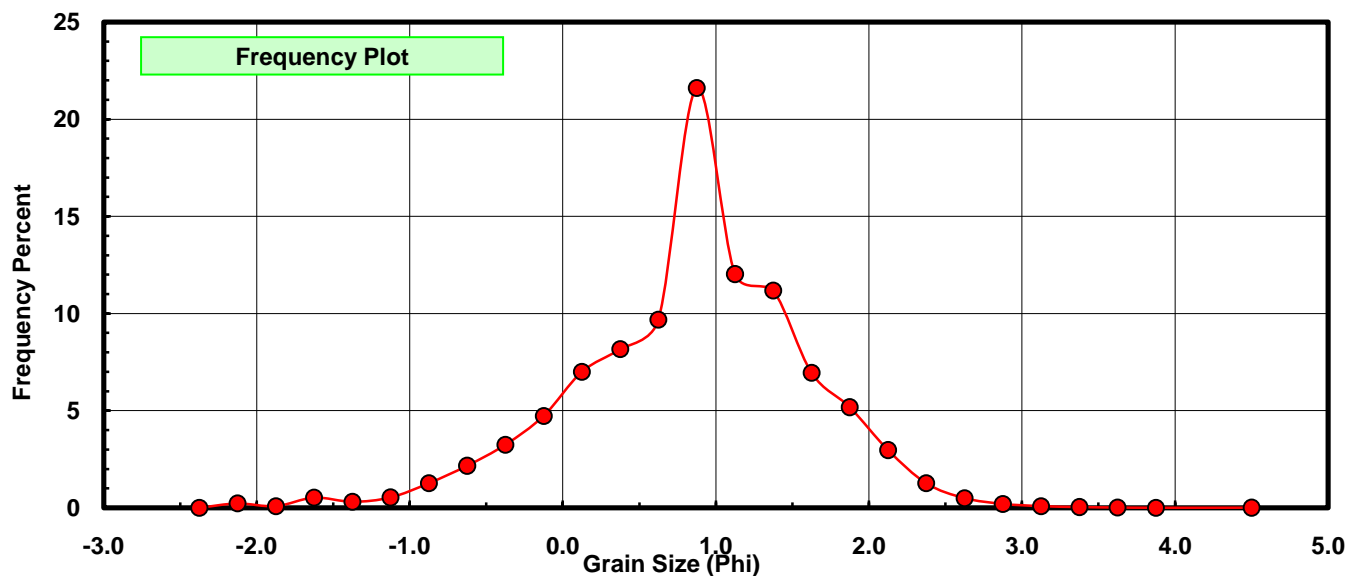
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.112	0.224	0.224
-1.75	-1.875	0.043	0.086	0.310
-1.50	-1.625	0.262	0.525	0.835
-1.25	-1.375	0.156	0.312	1.147
-1.00	-1.125	0.267	0.535	1.682
-0.75	-0.875	0.632	1.266	2.948
-0.50	-0.625	1.081	2.165	5.113
-0.25	-0.375	1.622	3.248	8.361
0.00	-0.125	2.363	4.732	13.093
0.25	0.125	3.495	6.999	20.092
0.50	0.375	4.080	8.171	28.263
0.75	0.625	4.836	9.685	37.947
1.00	0.875	10.791	21.610	59.557
1.25	1.125	6.007	12.030	71.587
1.50	1.375	5.585	11.185	82.772
1.75	1.625	3.473	6.955	89.727
2.00	1.875	2.586	5.179	94.905
2.25	2.125	1.484	2.972	97.877
2.50	2.375	0.630	1.262	99.139
2.75	2.625	0.250	0.501	99.640
3.00	2.875	0.102	0.204	99.844
3.25	3.125	0.044	0.088	99.932
3.50	3.375	0.020	0.040	99.972
3.75	3.625	0.008	0.016	99.988
4.00	3.875	0.002	0.004	99.992
5.00	4.50	0.004	0.008	100.000

Statistical Results			
Mean:	0.8377	phi	(0.5595 mm)
Standard Dev:	0.7700	phi-units	(0.5864 mm)
Skewness:	-0.4499	dimensionless	
Kurtosis:	3.8057	dimensionless	
5th Moment:	-4.7249	dimensionless	
6th Moment:	27.4838	dimensionless	
RARD *	0.9192	dimensionless	
Median	0.7644	phi	(0.5887 mm)

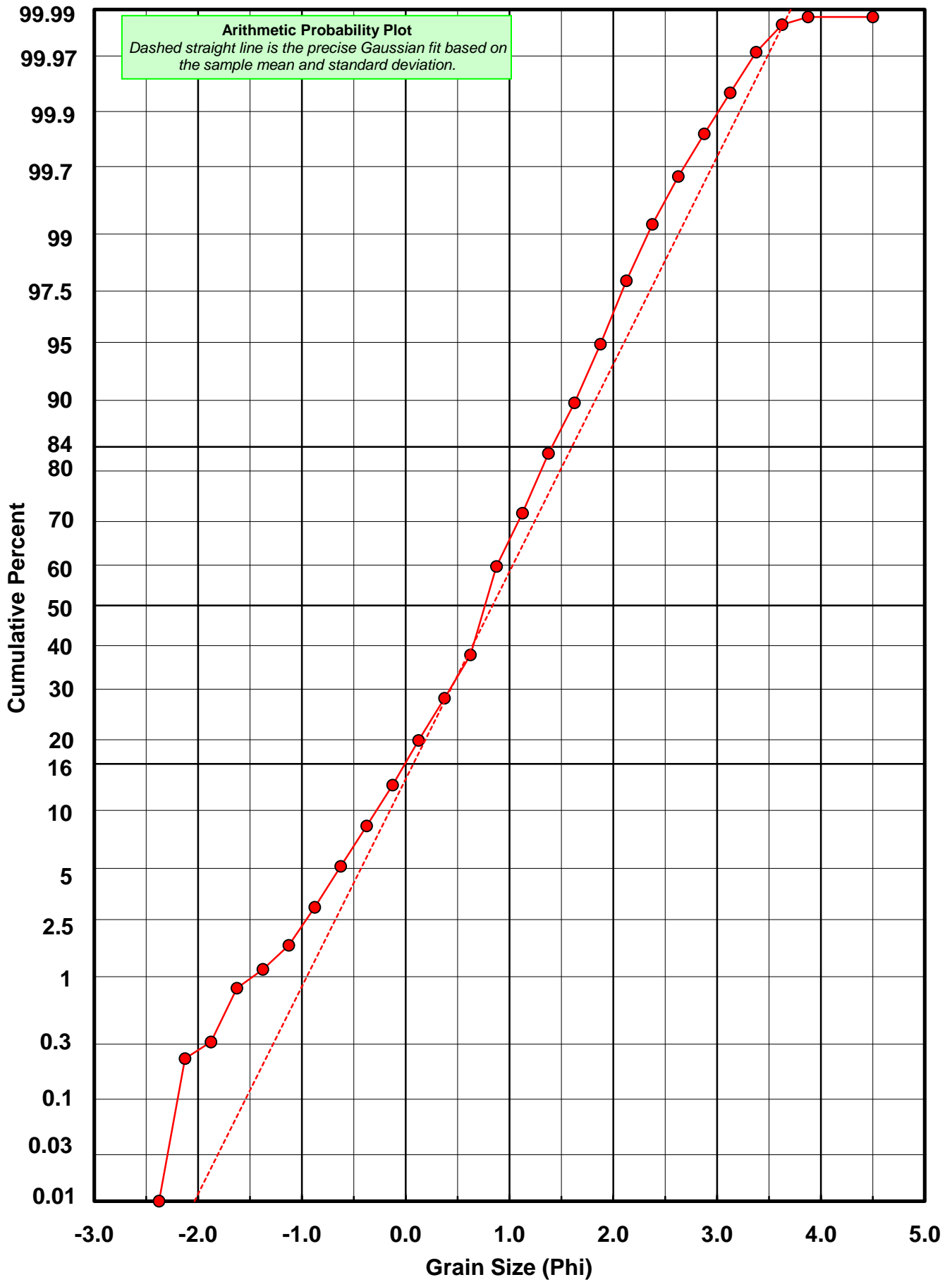
* RARD = reciprocal absolute relative dispersion (see below)

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)



MT-16-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: MT-16-BB

Total Carbonate Mass: 35.544 grams

% Carbonate: 70.8 %

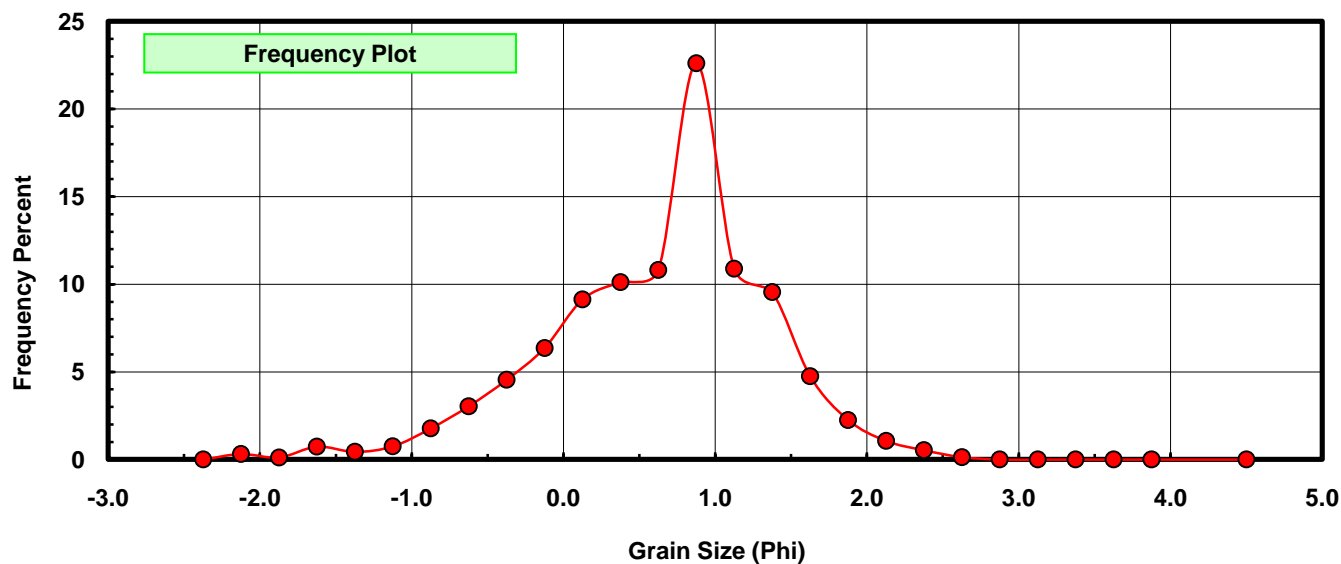
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.112	0.315	0.315
-1.75	-1.875	0.043	0.121	0.436
-1.50	-1.625	0.262	0.737	1.173
-1.25	-1.375	0.156	0.439	1.612
-1.00	-1.125	0.267	0.751	2.363
-0.75	-0.875	0.632	1.778	4.141
-0.50	-0.625	1.081	3.041	7.183
-0.25	-0.375	1.617	4.549	11.732
0.00	-0.125	2.264	6.370	18.102
0.25	0.125	3.246	9.132	27.234
0.50	0.375	3.599	10.125	37.359
0.75	0.625	3.848	10.826	48.185
1.00	0.875	8.036	22.609	70.794
1.25	1.125	3.869	10.885	81.679
1.50	1.375	3.398	9.560	91.239
1.75	1.625	1.693	4.763	96.002
2.00	1.875	0.804	2.262	98.264
2.25	2.125	0.379	1.066	99.330
2.50	2.375	0.189	0.532	99.862
2.75	2.625	0.049	0.138	100.000
3.00	2.875	0.000	0.000	100.000
3.25	3.125	0.000	0.000	100.000
3.50	3.375	0.000	0.000	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:	0.6325	phi	(0.6451 mm)
Standard Dev:	0.7392	phi-units	(0.5991 mm)
Skewness:	-0.6003	dimensionless	
Kurtosis:	3.6751	dimensionless	
5th Moment:	-5.9583	dimensionless	
6th Moment:	25.5958	dimensionless	
RARD *	1.1688	dimensionless	
Median	0.6451	phi	(0.6395 mm)

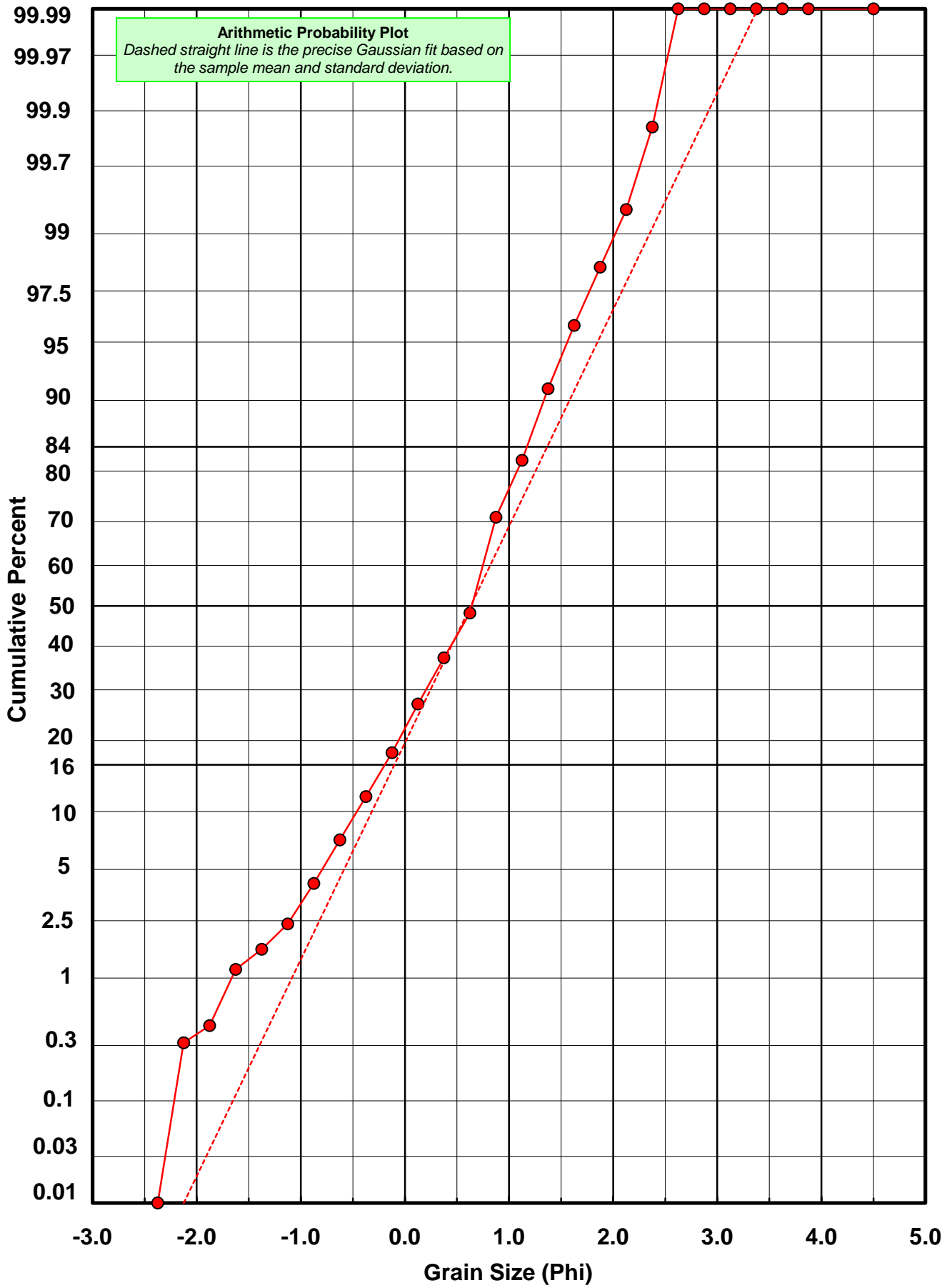
* RARD = reciprocal absolute relative dispersion (see below)

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	
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MT-16-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MT-16-BB

Total Digested Mass: 14.599 grams

% Silica: 29.2 %

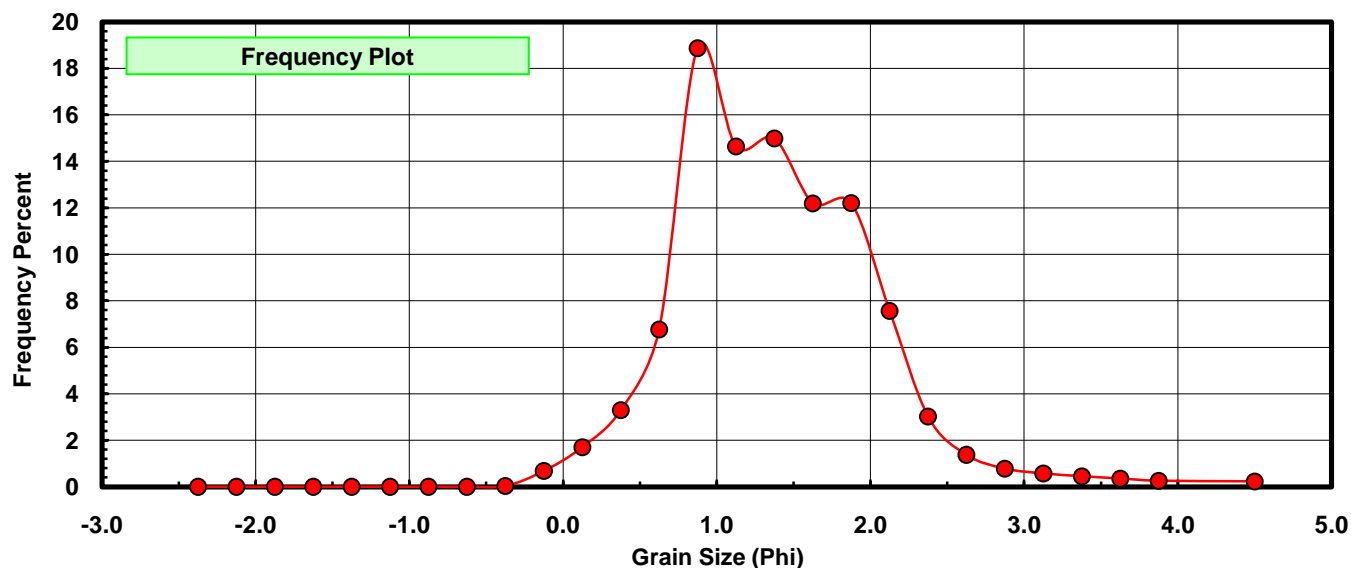
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.005	0.034	0.034
0.00	-0.125	0.099	0.678	0.712
0.25	0.125	0.249	1.706	2.418
0.50	0.375	0.481	3.295	5.713
0.75	0.625	0.988	6.768	12.480
1.00	0.875	2.755	18.871	31.351
1.25	1.125	2.138	14.645	45.996
1.50	1.375	2.187	14.980	60.977
1.75	1.625	1.780	12.193	73.169
2.00	1.875	1.782	12.206	85.376
2.25	2.125	1.105	7.569	92.945
2.50	2.375	0.441	3.021	95.965
2.75	2.625	0.201	1.377	97.342
3.00	2.875	0.114	0.781	98.123
3.25	3.125	0.084	0.575	98.699
3.50	3.375	0.066	0.452	99.151
3.75	3.625	0.052	0.356	99.507
4.00	3.875	0.038	0.260	99.767
5.00	4.500	0.034	0.233	100.000

Statistical Results			
Mean:	1.3766	phi	(0.3851 mm)
Standard Dev:	0.6659	phi-units	(0.6303 mm)
Skewness:	0.7436	dimensionless	
Kurtosis:	4.4847	dimensionless	
5th Moment:	11.2785	dimensionless	
6th Moment:	50.4275	dimensionless	
RARD *	0.4837	dimensionless	
Median	1.1918	phi	(0.4378 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	
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For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{(-phi)}$	

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