

**Onshore Grab Sample**

**Sample:** VO-18-BB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** Yes

**County:** Volusia  
**Latitude:** 29° 12' 44.28"  
**Longitude:** 81° 00' 0.24"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 59.799 grams  
Total Fines in Sample 0.401 grams  
Total Percent Fines 0.67 %

**Dry Sieving Summary**

Total Sample Weight 59.581 grams  
Total Digested Weight 56.682 grams  
Total Carbonate Weight 2.899 grams  
Total Silica % 95.13 %  
Total Carbonate % 4.87 %  
Carbonate/Silica Ratio 0.051

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-18-BB

Total Sample Mass: 59.581 grams

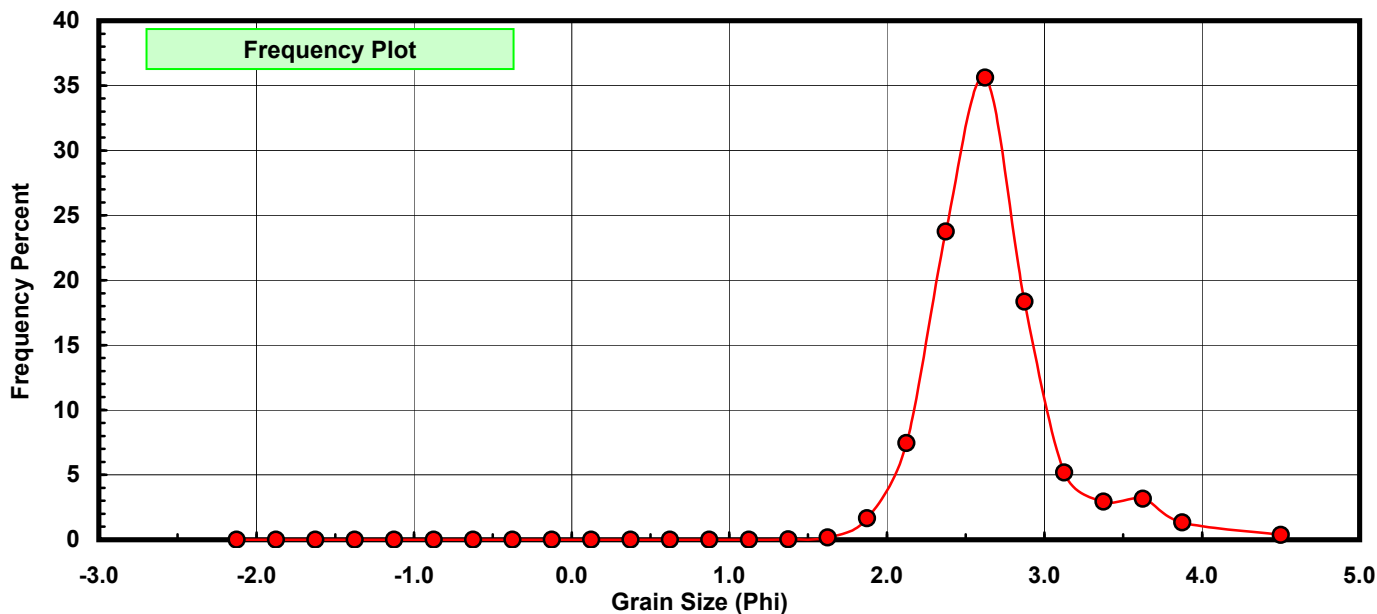
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.001	0.002	0.002
-1.00	-1.125	0.000	0.000	0.002
-0.75	-0.875	0.000	0.000	0.002
-0.50	-0.625	0.001	0.002	0.003
-0.25	-0.375	0.000	0.000	0.003
0.00	-0.125	0.000	0.000	0.003
0.25	0.125	0.001	0.002	0.005
0.50	0.375	0.001	0.002	0.007
0.75	0.625	0.002	0.003	0.010
1.00	0.875	0.001	0.002	0.012
1.25	1.125	0.004	0.007	0.018
1.50	1.375	0.019	0.032	0.050
1.75	1.625	0.098	0.164	0.215
2.00	1.875	0.984	1.652	1.866
2.25	2.125	4.441	7.454	9.320
2.50	2.375	14.151	23.751	33.071
2.75	2.625	21.218	35.612	68.683
3.00	2.875	10.934	18.351	87.034
3.25	3.125	3.092	5.190	92.224
3.50	3.375	1.748	2.934	95.158
3.75	3.625	1.879	3.154	98.312
4.00	3.875	0.792	1.329	99.641
5.00	4.500	0.214	0.359	100.000

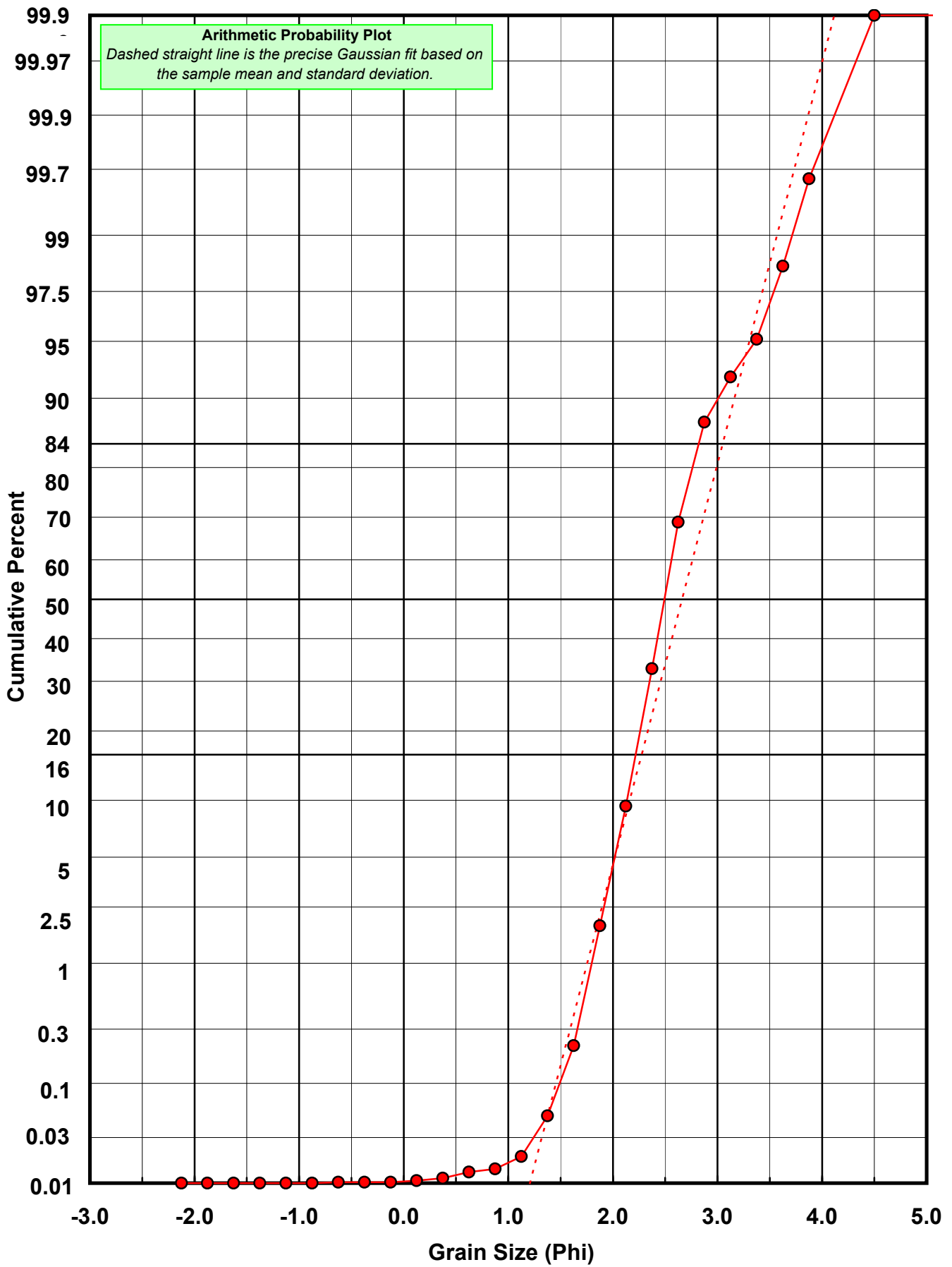
Statistical Results			
Mean:	2.6622	phi	(0.158 mm)
Standard Dev:	0.3911	phi-units	(0.7626 mm)
Skewness:	1.0390	dimensionless	
Kurtosis:	5.7738	dimensionless	
5th Moment:	11.2969	dimensionless	
6th Moment:	92.1281	dimensionless	
RARD *	0.1469	dimensionless	
Median	2.4938	phi	(0.1775 mm)

\* 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: VO-18-BB

Total Carbonate Mass: 4.077 grams

% Carbonate: 4.9 %

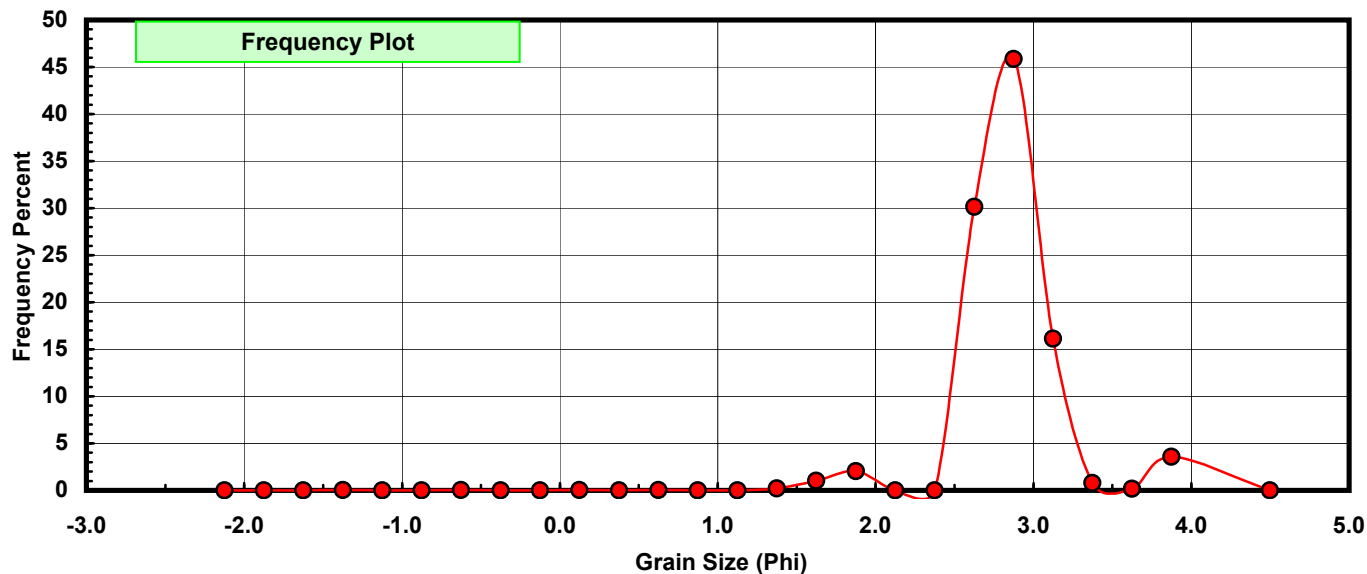
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.001	0.025	0.025
-1.00	-1.125	0.000	0.000	0.025
-0.75	-0.875	0.000	0.000	0.025
-0.50	-0.625	0.001	0.025	0.049
-0.25	-0.375	0.000	0.000	0.049
0.00	-0.125	0.000	0.000	0.049
0.25	0.125	0.001	0.025	0.074
0.50	0.375	0.000	0.000	0.074
0.75	0.625	0.001	0.025	0.098
1.00	0.875	0.000	0.000	0.098
1.25	1.125	0.000	0.000	0.098
1.50	1.375	0.009	0.221	0.319
1.75	1.625	0.042	1.030	1.349
2.00	1.875	0.083	2.036	3.385
2.25	2.125	0.000	0.000	3.385
2.50	2.375	0.000	0.000	3.385
2.75	2.625	1.228	30.120	33.505
3.00	2.875	1.869	45.843	79.348
3.25	3.125	0.658	16.139	95.487
3.50	3.375	0.032	0.785	96.272
3.75	3.625	0.007	0.172	96.443
4.00	3.875	0.145	3.557	100.000
5.00	4.500	0.000	0.000	100.000

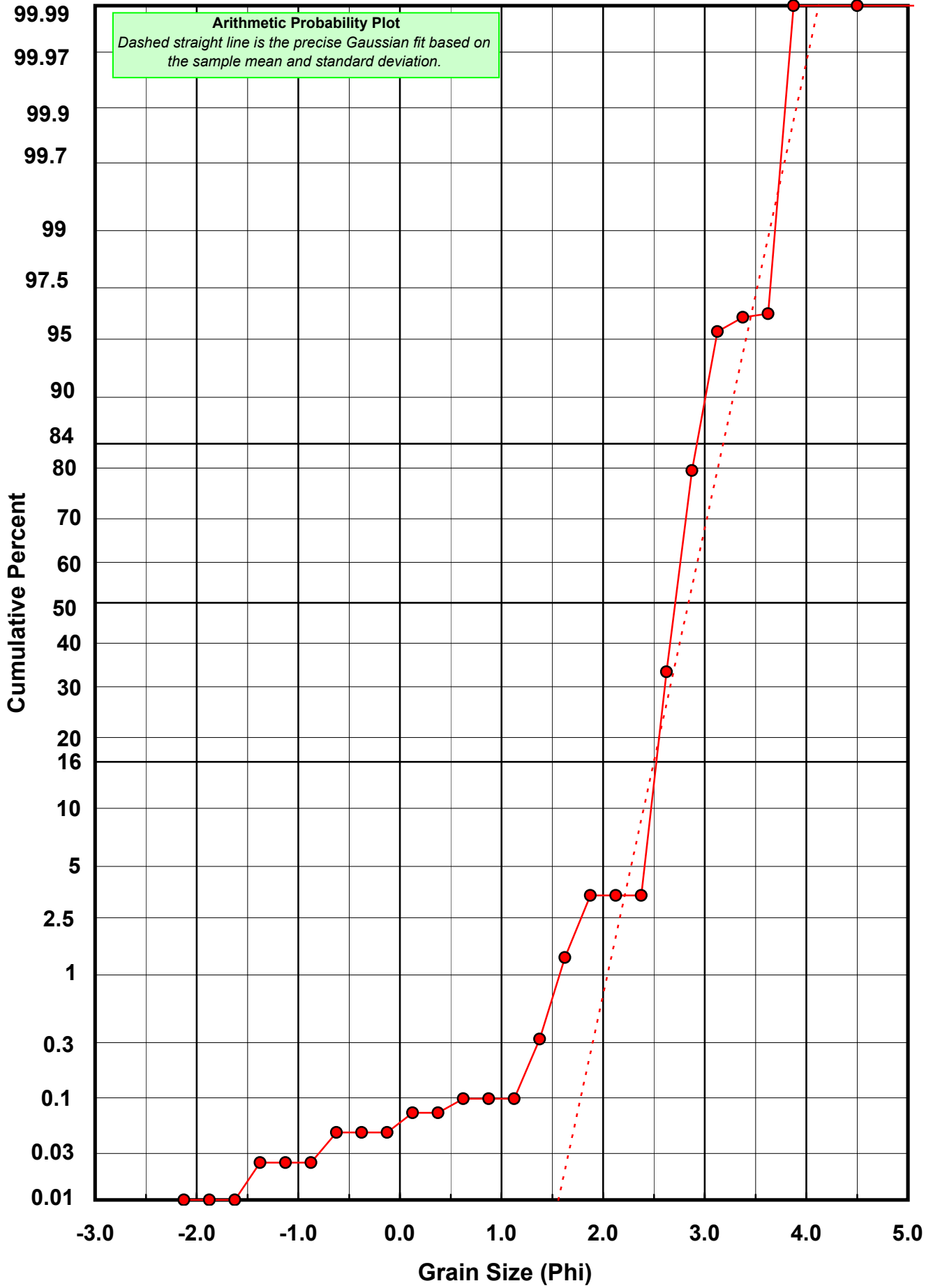
Statistical Results			
Mean:	2.8412	phi	(0.1395 mm)
Standard Dev:	0.3438	phi-units	(0.788 mm)
Skewness:	-0.9359	dimensionless	
Kurtosis:	16.1919	dimensionless	
5th Moment:	-107.2596	dimensionless	
6th Moment:	1238.8687	dimensionless	
RARD *	0.1210	dimensionless	
Median	2.7150	phi	(0.1523 mm)

\* 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: VO-18-BB

Total Digested Mass: 56.540 grams

% Silica: 95.1 %

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	0.000	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	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.003	0.005	0.005
0.75	0.625	0.001	0.002	0.007
1.00	0.875	0.001	0.002	0.009
1.25	1.125	0.008	0.014	0.023
1.50	1.375	0.010	0.018	0.041
1.75	1.625	0.056	0.099	0.140
2.00	1.875	0.901	1.594	1.733
2.25	2.125	4.968	8.787	10.520
2.50	2.375	14.868	26.296	36.816
2.75	2.625	19.990	35.356	72.172
3.00	2.875	9.065	16.033	88.205
3.25	3.125	2.434	4.305	92.510
3.50	3.375	1.716	3.035	95.545
3.75	3.625	1.872	3.311	98.856
4.00	3.875	0.647	1.144	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6335	phi	(0.1611 mm)
Standard Dev:	0.3750	phi-units	(0.7711 mm)
Skewness:	0.9295	dimensionless	
Kurtosis:	4.5196	dimensionless	
5th Moment:	8.1909	dimensionless	
6th Moment:	35.0841	dimensionless	
RARD *	0.1424	dimensionless	
Median	2.4682	phi	(0.1807 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)

