

**Onshore Grab Sample**

**Sample:** VO-32-BB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** N/A

**County:** Volusia  
**Latitude:** 29° 03' 35.28"  
**Longitude:** 80° 54' 22.20"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 61.091 grams  
Total Fines in Sample 0.208 grams  
Total Percent Fines 0.34 %

**Dry Sieving Summary**

Total Sample Weight 60.849 grams  
Total Digested Weight 59.728 grams  
Total Carbonate Weight 1.121 grams  
Total Silica % 98.16 %  
Total Carbonate % 1.84 %  
Carbonate/Silica Ratio 0.019

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-32-BB

Total Sample Mass: 60.849 grams

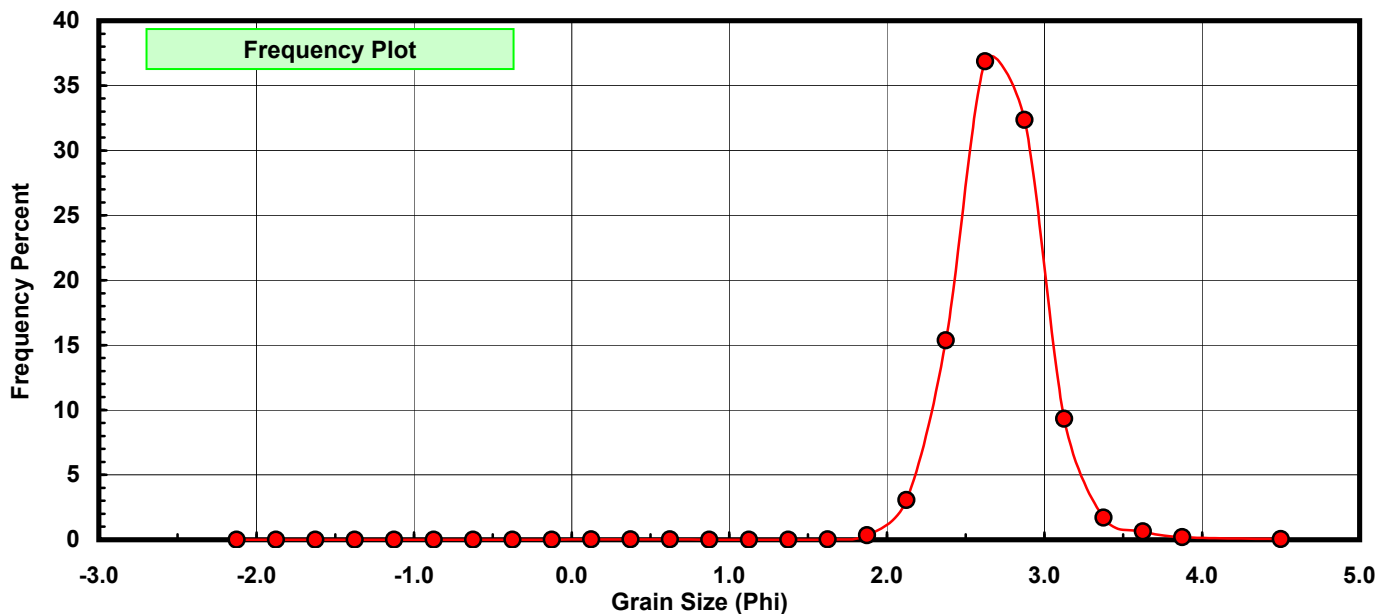
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.008	0.013	0.013
0.50	0.375	0.019	0.031	0.044
0.75	0.625	0.009	0.015	0.059
1.00	0.875	0.001	0.002	0.061
1.25	1.125	0.002	0.003	0.064
1.50	1.375	0.002	0.003	0.067
1.75	1.625	0.020	0.033	0.100
2.00	1.875	0.204	0.335	0.436
2.25	2.125	1.866	3.067	3.502
2.50	2.375	9.351	15.368	18.870
2.75	2.625	22.440	36.878	55.748
3.00	2.875	19.685	32.351	88.098
3.25	3.125	5.668	9.315	97.413
3.50	3.375	1.039	1.708	99.121
3.75	3.625	0.387	0.636	99.757
4.00	3.875	0.125	0.205	99.962
5.00	4.500	0.023	0.038	100.000

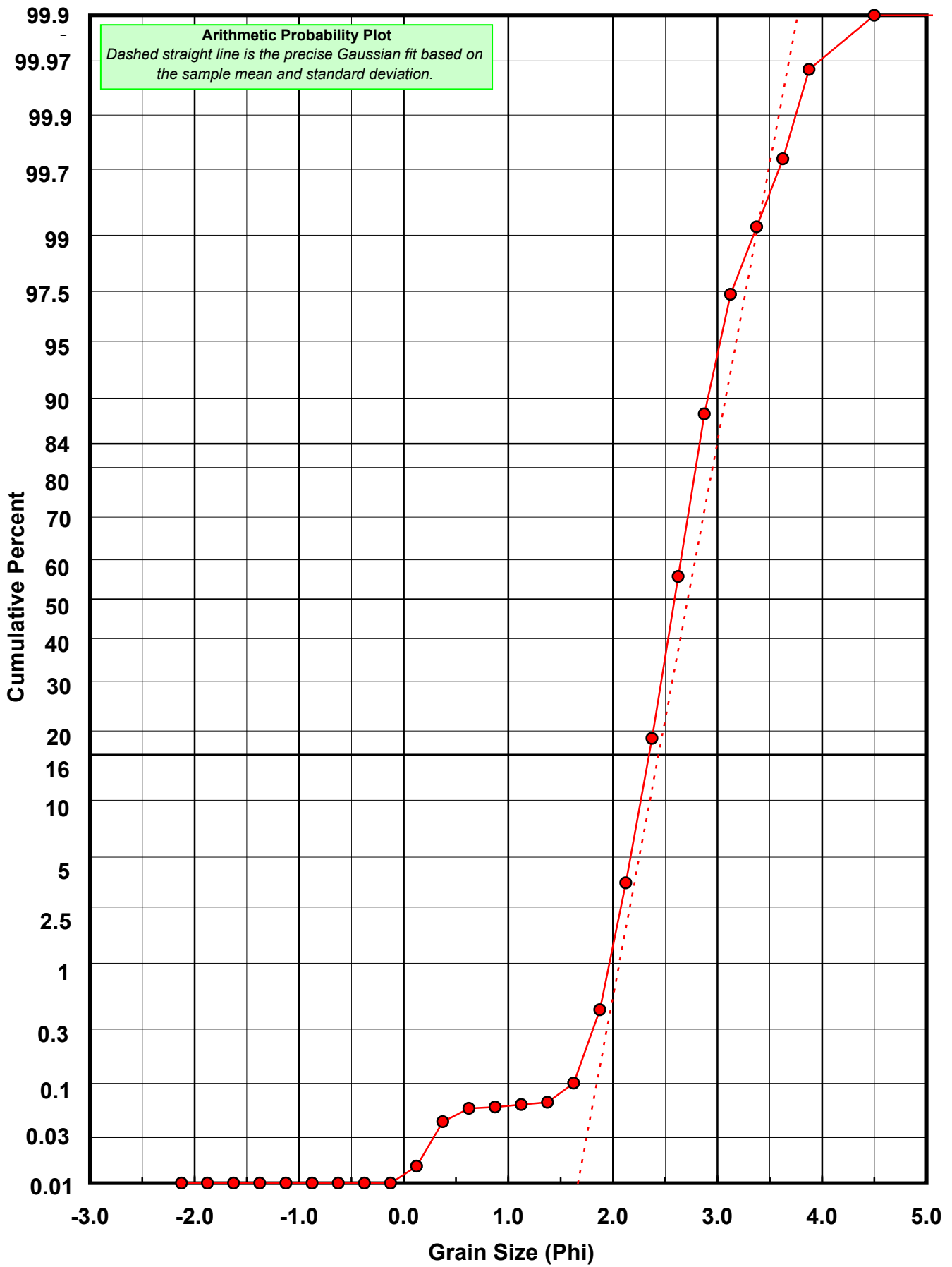
Statistical Results			
Mean:	2.7169	phi	(0.1521 mm)
Standard Dev:	0.2820	phi-units	(0.8224 mm)
Skewness:	-0.0272	dimensionless	
Kurtosis:	7.1580	dimensionless	
5th Moment:	-17.5408	dimensionless	
6th Moment:	264.5921	dimensionless	
RARD *	0.1038	dimensionless	
Median	2.5860	phi	(0.1665 mm)

\* 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-32-BB

Total Carbonate Mass: 5.184 grams

% Carbonate: 1.8 %

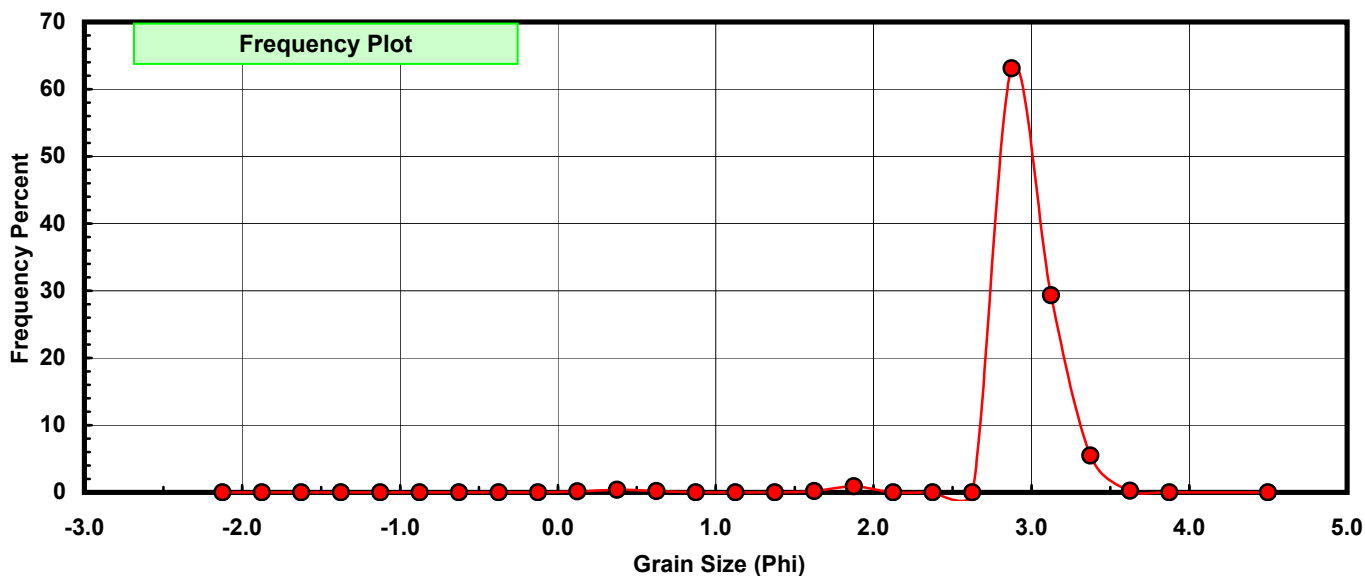
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.008	0.154	0.154
0.50	0.375	0.019	0.367	0.521
0.75	0.625	0.009	0.174	0.694
1.00	0.875	0.000	0.000	0.694
1.25	1.125	0.001	0.019	0.714
1.50	1.375	0.000	0.000	0.714
1.75	1.625	0.009	0.174	0.887
2.00	1.875	0.048	0.926	1.813
2.25	2.125	0.000	0.000	1.813
2.50	2.375	0.000	0.000	1.813
2.75	2.625	0.000	0.000	1.813
3.00	2.875	3.272	63.117	64.931
3.25	3.125	1.521	29.340	94.271
3.50	3.375	0.285	5.498	99.769
3.75	3.625	0.012	0.231	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

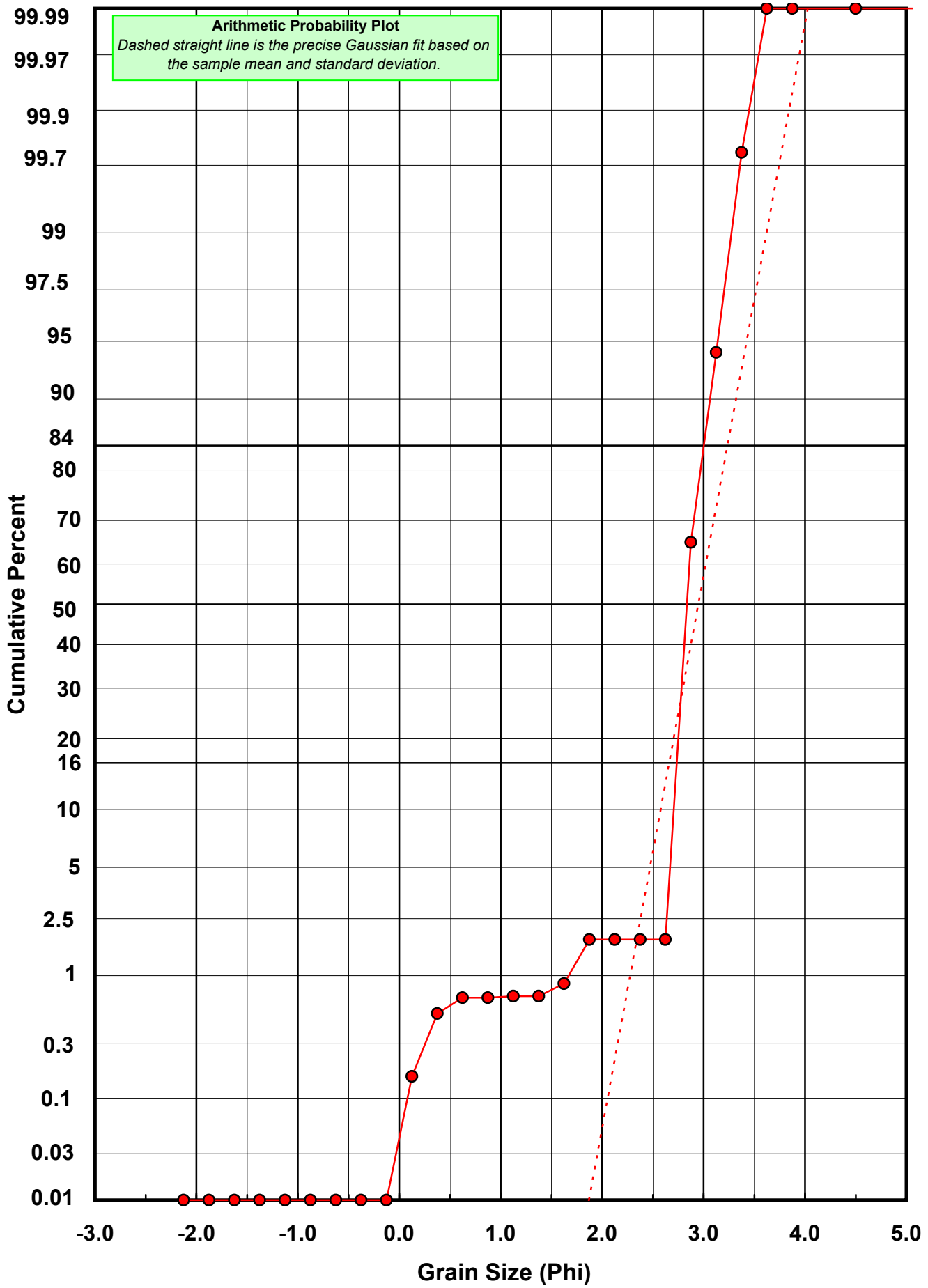
Statistical Results			
Mean:	2.9485	phi	(0.1295 mm)
Standard Dev:	0.2897	phi-units	(0.8181 mm)
Skewness:	-5.3189	dimensionless	
Kurtosis:	47.1232	dimensionless	
5th Moment:	-407.5187	dimensionless	
6th Moment:	3640.4619	dimensionless	
RARD *	0.0982	dimensionless	
Median	2.8159	phi	(0.142 mm)

\* 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-32-BB

Total Digested Mass: 59.694 grams

% Silica: 98.2 %

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	0.000	0.000	0.000
0.75	0.625	0.000	0.000	0.000
1.00	0.875	0.005	0.008	0.008
1.25	1.125	0.001	0.002	0.010
1.50	1.375	0.005	0.008	0.018
1.75	1.625	0.011	0.018	0.037
2.00	1.875	0.156	0.261	0.298
2.25	2.125	2.021	3.386	3.684
2.50	2.375	11.787	19.746	23.429
2.75	2.625	23.878	40.001	63.430
3.00	2.875	16.413	27.495	90.925
3.25	3.125	4.147	6.947	97.872
3.50	3.375	0.754	1.263	99.136
3.75	3.625	0.375	0.628	99.764
4.00	3.875	0.141	0.236	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6785	phi	(0.1562 mm)
Standard Dev:	0.2700	phi-units	(0.8293 mm)
Skewness:	0.4283	dimensionless	
Kurtosis:	4.4859	dimensionless	
5th Moment:	6.0332	dimensionless	
6th Moment:	50.1072	dimensionless	
RARD *	0.1008	dimensionless	
Median	2.5411	phi	(0.1718 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)

