

**Onshore Grab Sample**

**Sample:** VO-16-BB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** N/A

**County:** Volusia  
**Latitude:** 29° 14' 10.26"  
**Longitude:** 81° 00' 40.44"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 145.974 grams  
Total Fines in Sample 1.257 grams  
Total Percent Fines 0.85 %

**Dry Sieving Summary**

Total Sample Weight 144.440 grams  
Total Digested Weight 135.807 grams  
Total Carbonate Weight 8.633 grams  
Total Silica % 94.02 %  
Total Carbonate % 5.98 %  
Carbonate/Silica Ratio 0.064

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-16-BB

Total Sample Mass: 144.440 grams

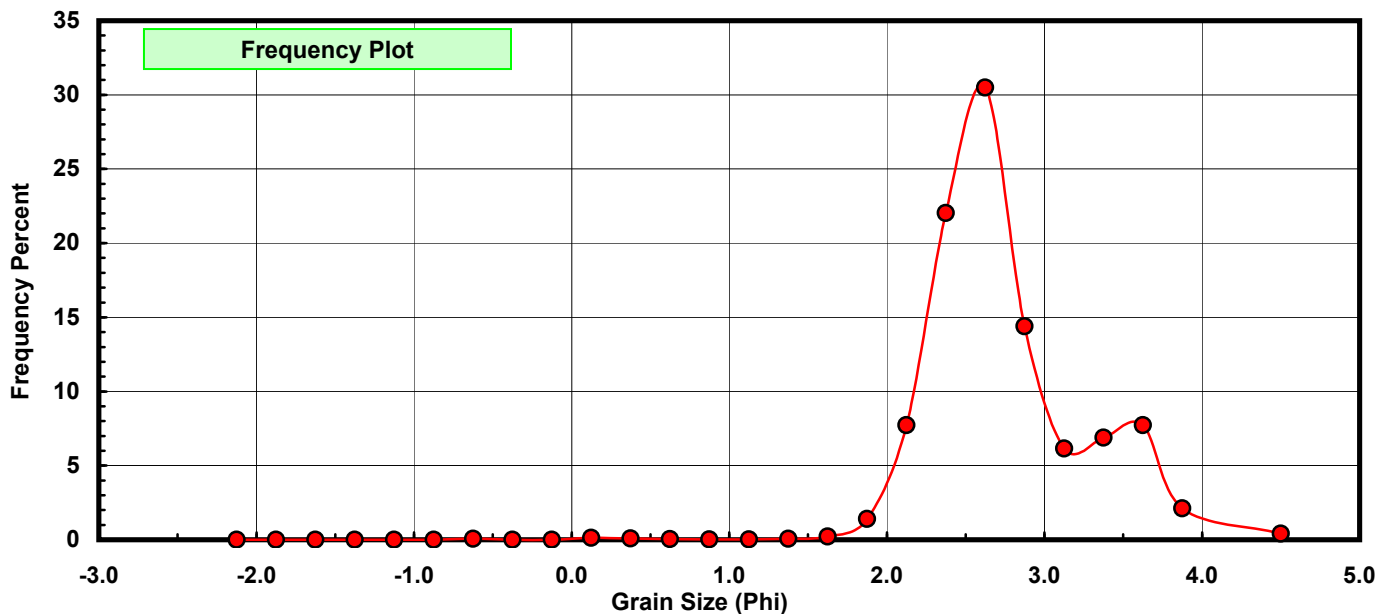
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.109	0.075	0.075
-0.25	-0.375	0.000	0.000	0.075
0.00	-0.125	0.000	0.000	0.075
0.25	0.125	0.175	0.121	0.197
0.50	0.375	0.110	0.076	0.273
0.75	0.625	0.069	0.048	0.321
1.00	0.875	0.016	0.011	0.332
1.25	1.125	0.035	0.024	0.356
1.50	1.375	0.096	0.066	0.422
1.75	1.625	0.310	0.215	0.637
2.00	1.875	2.038	1.411	2.048
2.25	2.125	11.167	7.731	9.779
2.50	2.375	31.815	22.026	31.806
2.75	2.625	44.044	30.493	62.299
3.00	2.875	20.799	14.400	76.698
3.25	3.125	8.894	6.158	82.856
3.50	3.375	9.945	6.885	89.741
3.75	3.625	11.162	7.728	97.469
4.00	3.875	3.049	2.111	99.580
5.00	4.500	0.607	0.420	100.000

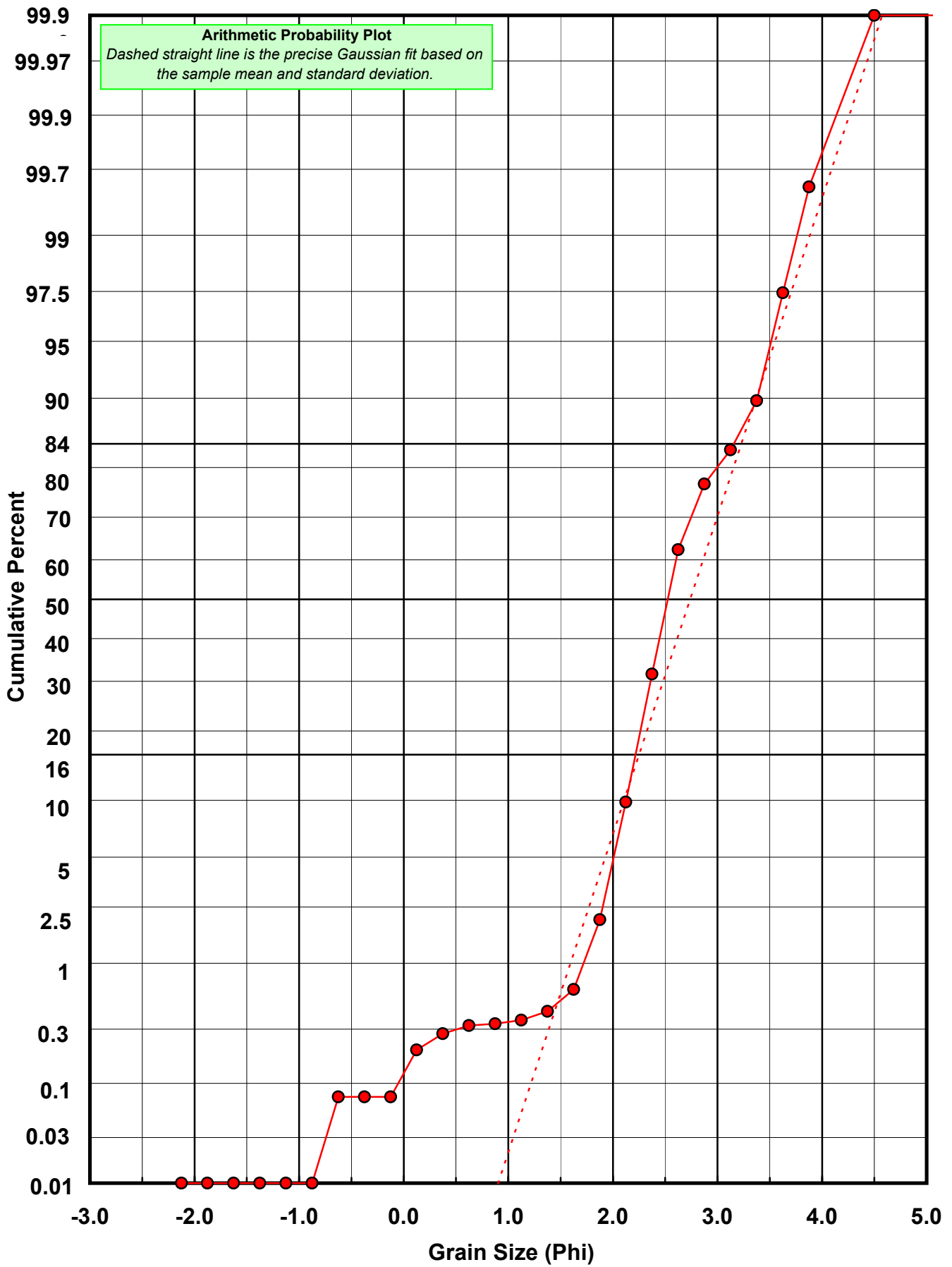
Statistical Results			
Mean:	2.7390	phi	(0.1498 mm)
Standard Dev:	0.4932	phi-units	(0.7104 mm)
Skewness:	0.1668	dimensionless	
Kurtosis:	6.0199	dimensionless	
5th Moment:	-14.3270	dimensionless	
6th Moment:	132.6548	dimensionless	
RARD *	0.1801	dimensionless	
Median	2.5242	phi	(0.1738 mm)

\* 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-16-BB

Total Carbonate Mass: 10.128 grams

% Carbonate: 6.0 %

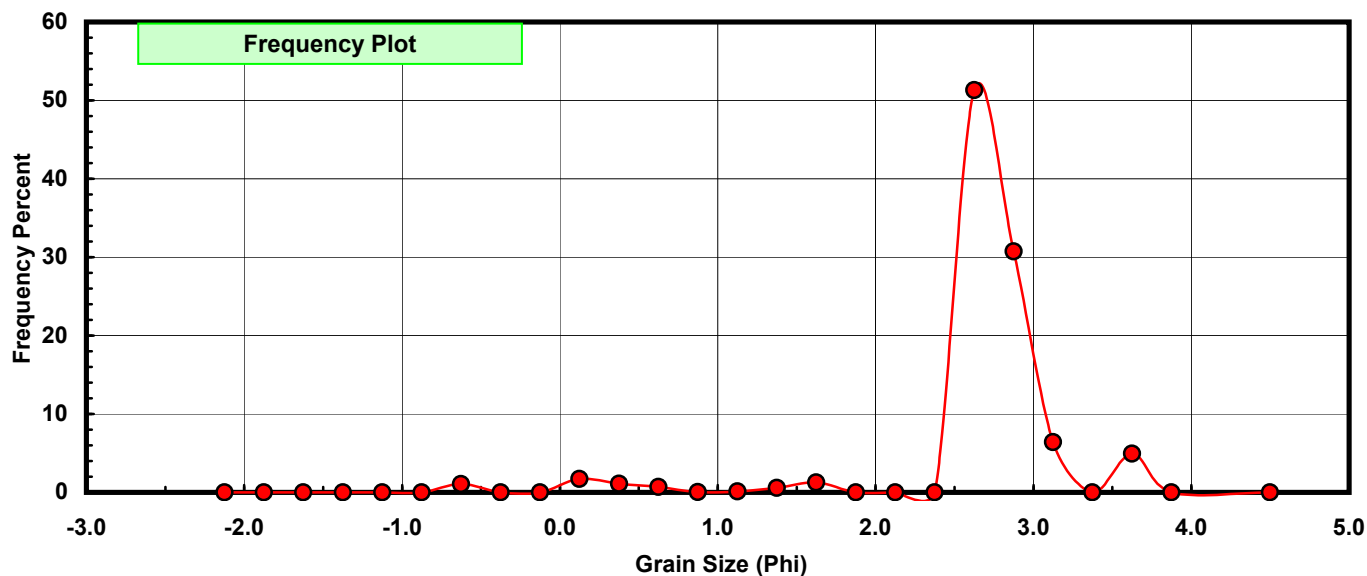
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.109	1.076	1.076
-0.25	-0.375	0.000	0.000	1.076
0.00	-0.125	0.000	0.000	1.076
0.25	0.125	0.174	1.718	2.794
0.50	0.375	0.110	1.086	3.880
0.75	0.625	0.069	0.681	4.562
1.00	0.875	0.005	0.049	4.611
1.25	1.125	0.011	0.109	4.720
1.50	1.375	0.059	0.583	5.302
1.75	1.625	0.130	1.284	6.586
2.00	1.875	0.000	0.000	6.586
2.25	2.125	0.000	0.000	6.586
2.50	2.375	0.000	0.000	6.586
2.75	2.625	5.195	51.293	57.879
3.00	2.875	3.113	30.737	88.616
3.25	3.125	0.651	6.428	95.043
3.50	3.375	0.000	0.000	95.043
3.75	3.625	0.502	4.957	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

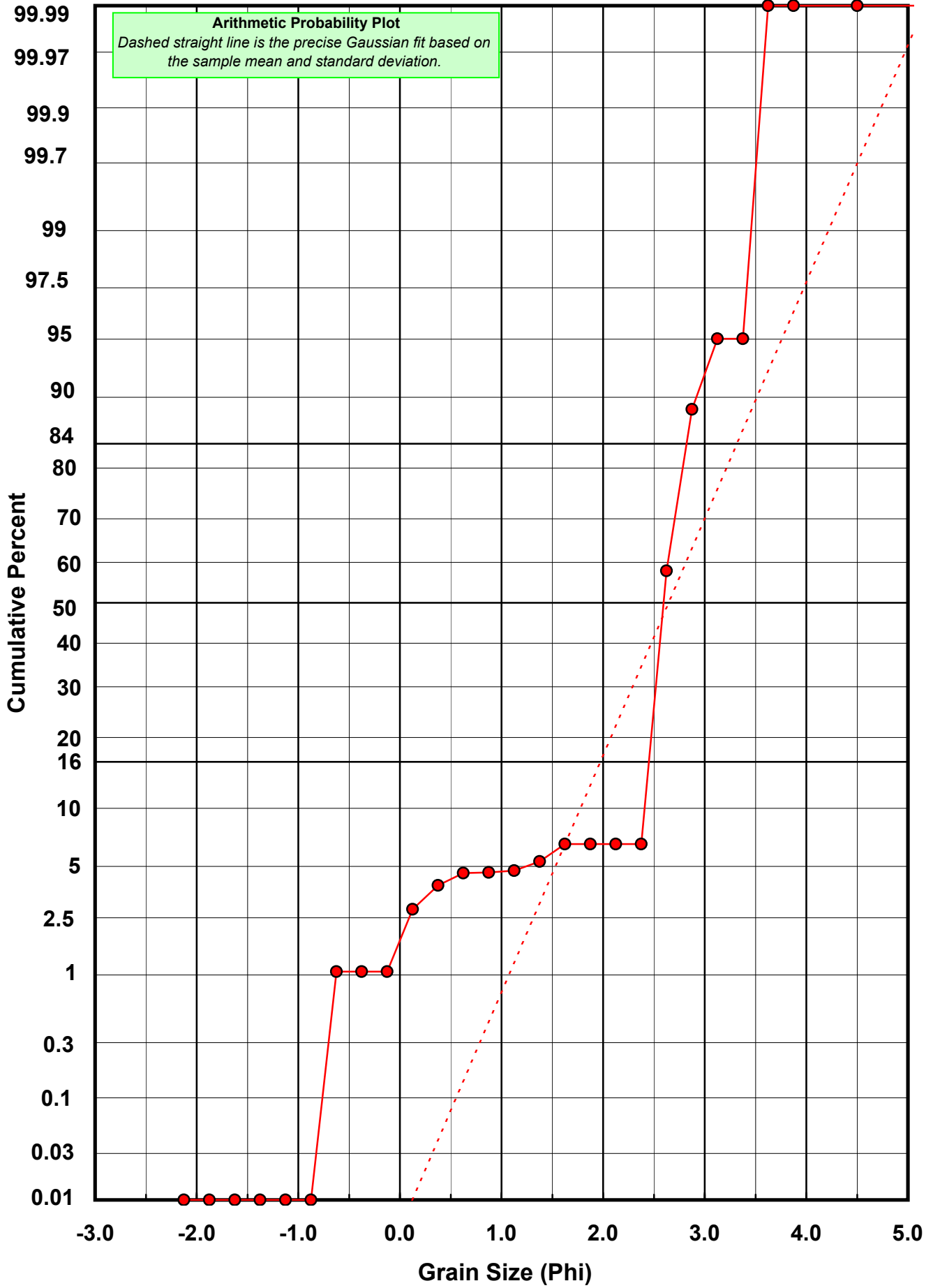
Statistical Results			
Mean:	2.6449	phi	(0.1599 mm)
Standard Dev:	0.6775	phi-units	(0.6253 mm)
Skewness:	-2.8870	dimensionless	
Kurtosis:	12.7202	dimensionless	
5th Moment:	-51.7649	dimensionless	
6th Moment:	225.1640	dimensionless	
RARD *	0.2561	dimensionless	
Median	2.5866	phi	(0.1665 mm)

\* 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)





# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-16-BB

Total Digested Mass: 135.270 grams

% Silica: 94.0 %

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	0.001	0.001	0.001
0.50	0.375	0.000	0.000	0.001
0.75	0.625	0.000	0.000	0.001
1.00	0.875	0.011	0.008	0.009
1.25	1.125	0.024	0.018	0.027
1.50	1.375	0.037	0.027	0.054
1.75	1.625	0.180	0.133	0.187
2.00	1.875	2.294	1.696	1.883
2.25	2.125	11.990	8.864	10.747
2.50	2.375	31.817	23.521	34.268
2.75	2.625	38.849	28.720	62.987
3.00	2.875	17.686	13.075	76.062
3.25	3.125	8.243	6.094	82.156
3.50	3.375	10.201	7.541	89.697
3.75	3.625	10.660	7.881	97.577
4.00	3.875	3.277	2.423	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.7359	phi	(0.1501 mm)
Standard Dev:	0.4698	phi-units	(0.7221 mm)
Skewness:	0.6653	dimensionless	
Kurtosis:	2.7978	dimensionless	
5th Moment:	3.2452	dimensionless	
6th Moment:	11.4660	dimensionless	
RARD *	0.1717	dimensionless	
Median	2.5119	phi	(0.1753 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)

