

**Onshore Grab Sample**

**Sample:** VO-15-BB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** N/A

**County:** Volusia  
**Latitude:** 29° 14' 53.52"  
**Longitude:** 81° 01' 02.64"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 106.135 grams  
Total Fines in Sample 0.415 grams  
Total Percent Fines 0.39 %

**Dry Sieving Summary**

Total Sample Weight 105.664 grams  
Total Digested Weight 97.608 grams  
Total Carbonate Weight 8.056 grams  
Total Silica % 92.38 %  
Total Carbonate % 7.62 %  
Carbonate/Silica Ratio 0.083

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-15-BB

Total Sample Mass: 105.664 grams

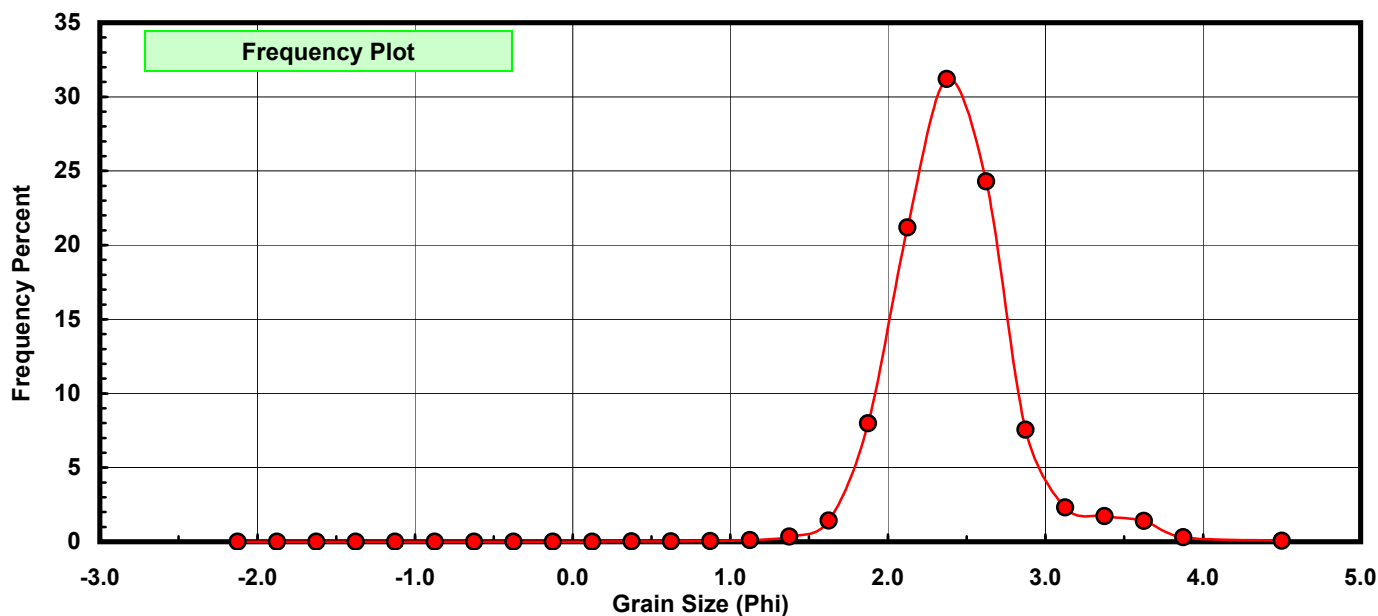
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.003	0.003	0.003
-0.25	-0.375	0.000	0.000	0.003
0.00	-0.125	0.000	0.000	0.003
0.25	0.125	0.000	0.000	0.003
0.50	0.375	0.022	0.021	0.024
0.75	0.625	0.017	0.016	0.040
1.00	0.875	0.035	0.033	0.073
1.25	1.125	0.103	0.097	0.170
1.50	1.375	0.375	0.355	0.525
1.75	1.625	1.514	1.433	1.958
2.00	1.875	8.430	7.978	9.936
2.25	2.125	22.395	21.195	31.131
2.50	2.375	32.980	31.212	62.343
2.75	2.625	25.678	24.302	86.644
3.00	2.875	7.973	7.546	94.190
3.25	3.125	2.451	2.320	96.510
3.50	3.375	1.819	1.721	98.231
3.75	3.625	1.479	1.400	99.631
4.00	3.875	0.311	0.294	99.925
5.00	4.500	0.079	0.075	100.000

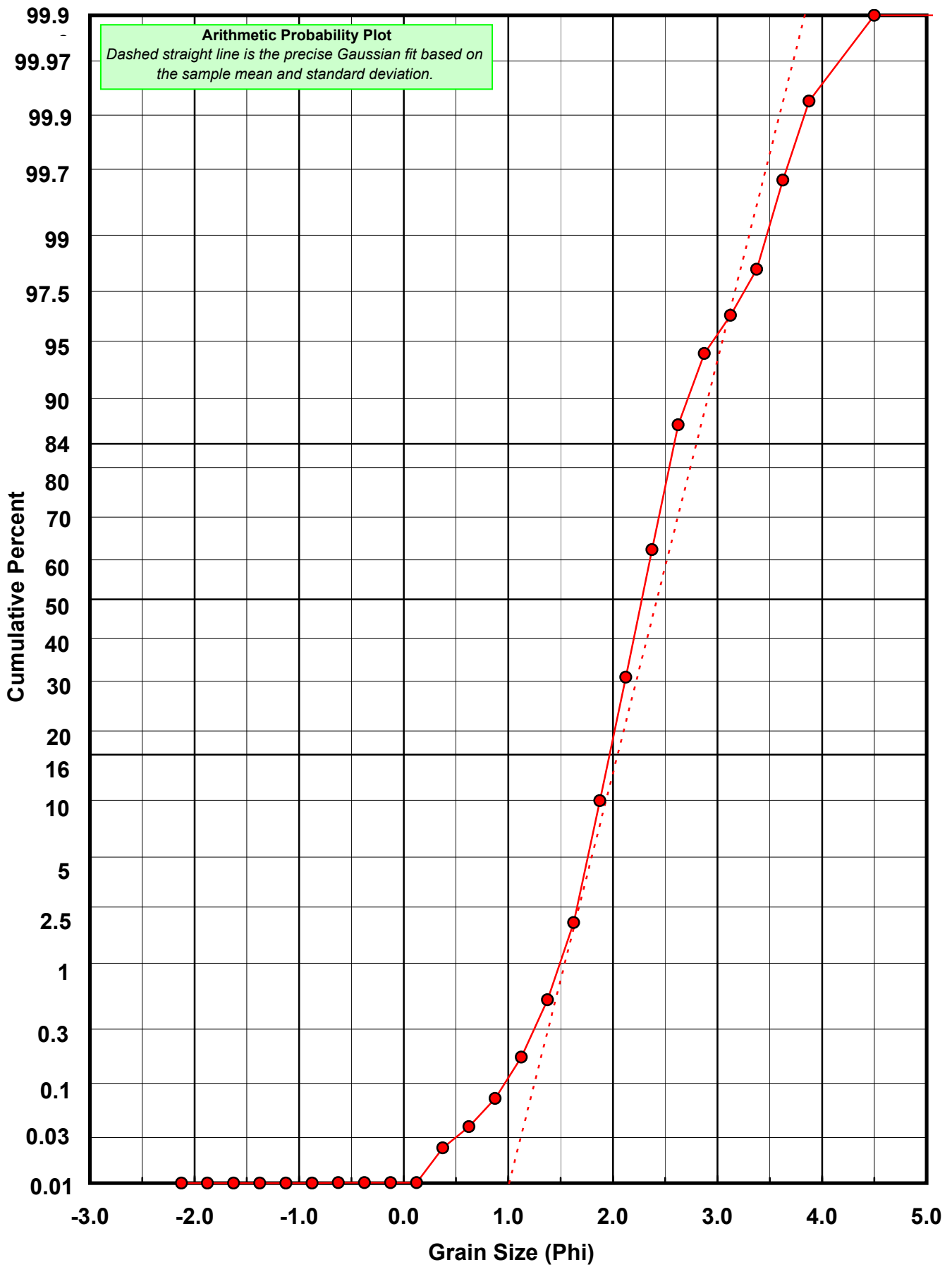
Statistical Results			
Mean:	2.4219	phi	(0.1866 mm)
Standard Dev:	0.3795	phi-units	(0.7687 mm)
Skewness:	0.6522	dimensionless	
Kurtosis:	5.4102	dimensionless	
5th Moment:	8.2684	dimensionless	
6th Moment:	71.0011	dimensionless	
RARD *	0.1567	dimensionless	
Median	2.2761	phi	(0.2064 mm)

\* 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-15-BB

Total Carbonate Mass: 8.157 grams

% Carbonate: 7.6 %

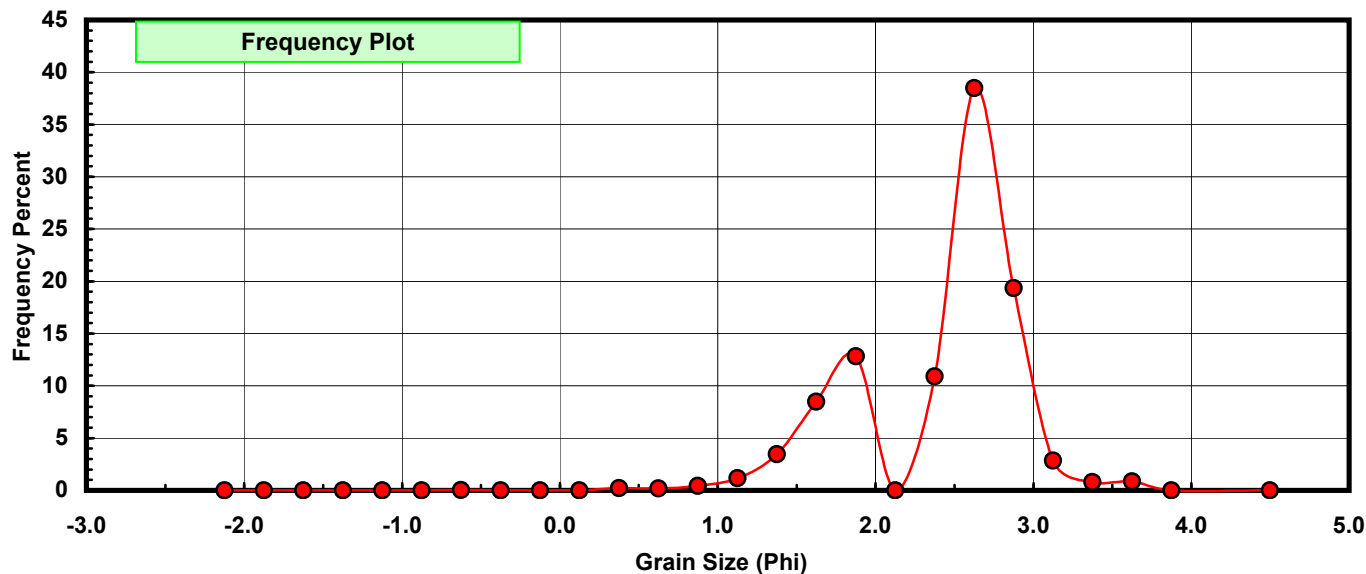
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.003	0.037	0.037
-0.25	-0.375	0.000	0.000	0.037
0.00	-0.125	0.000	0.000	0.037
0.25	0.125	0.000	0.000	0.037
0.50	0.375	0.017	0.208	0.245
0.75	0.625	0.016	0.196	0.441
1.00	0.875	0.034	0.417	0.858
1.25	1.125	0.094	1.152	2.011
1.50	1.375	0.282	3.457	5.468
1.75	1.625	0.692	8.484	13.951
2.00	1.875	1.047	12.836	26.787
2.25	2.125	0.000	0.000	26.787
2.50	2.375	0.888	10.886	37.673
2.75	2.625	3.139	38.482	76.155
3.00	2.875	1.578	19.345	95.501
3.25	3.125	0.233	2.856	98.357
3.50	3.375	0.065	0.797	99.154
3.75	3.625	0.069	0.846	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

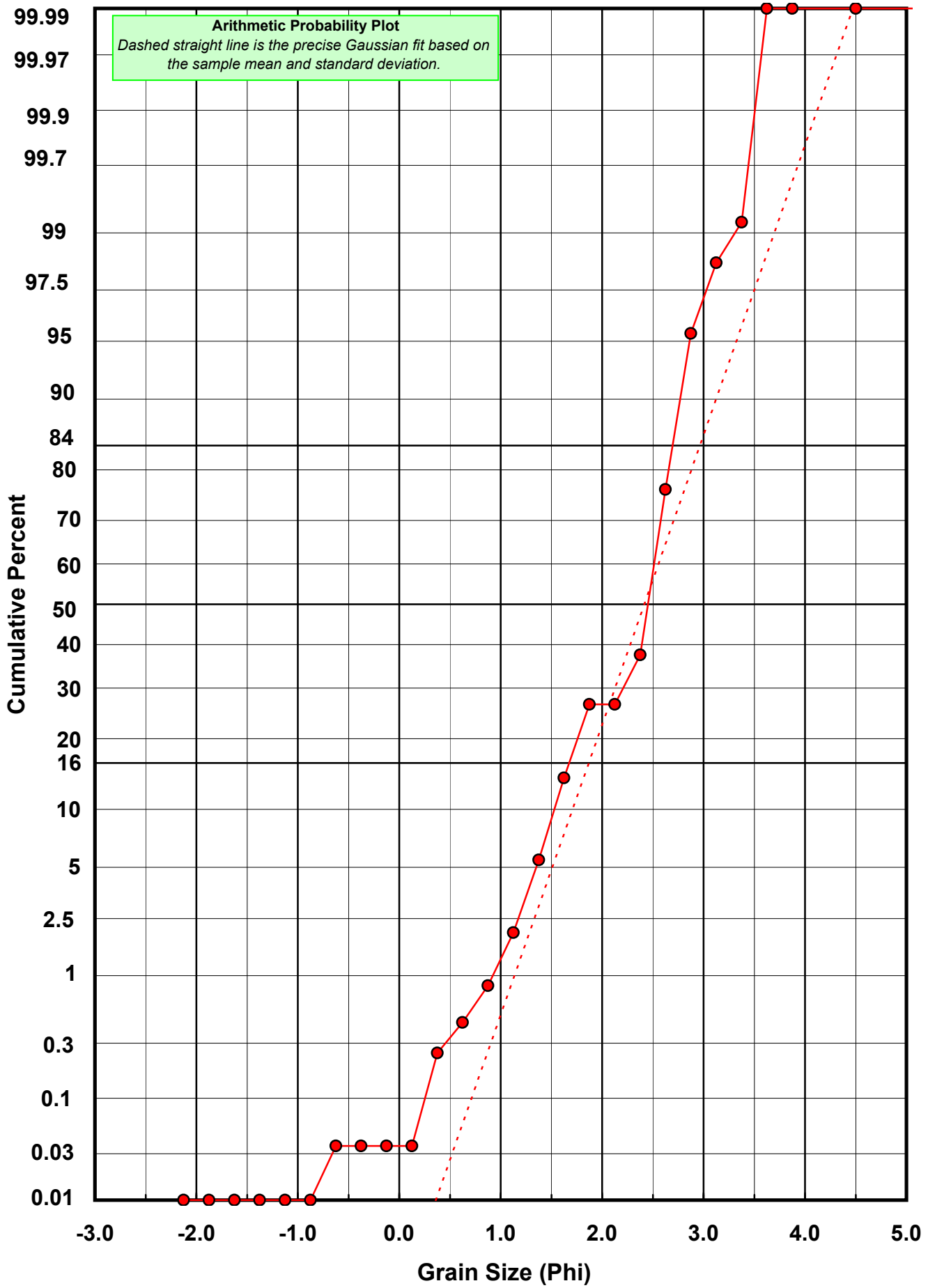
Statistical Results			
Mean:	2.4162	phi	(0.1874 mm)
Standard Dev:	0.5520	phi-units	(0.6821 mm)
Skewness:	-0.8566	dimensionless	
Kurtosis:	3.3079	dimensionless	
5th Moment:	-7.1207	dimensionless	
6th Moment:	29.0656	dimensionless	
RARD *	0.2285	dimensionless	
Median	2.4551	phi	(0.1824 mm)

\* 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-15-BB

Total Digested Mass: 97.532 grams

% Silica: 92.4 %

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	0.005	0.005	0.005
0.75	0.625	0.001	0.001	0.006
1.00	0.875	0.001	0.001	0.007
1.25	1.125	0.009	0.009	0.016
1.50	1.375	0.093	0.095	0.112
1.75	1.625	0.822	0.843	0.955
2.00	1.875	7.383	7.570	8.524
2.25	2.125	22.460	23.028	31.553
2.50	2.375	32.092	32.904	64.457
2.75	2.625	22.539	23.109	87.566
3.00	2.875	6.395	6.557	94.123
3.25	3.125	2.218	2.274	96.397
3.50	3.375	1.754	1.798	98.195
3.75	3.625	1.410	1.446	99.641
4.00	3.875	0.350	0.359	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.4211	phi	(0.1867 mm)
Standard Dev:	0.3618	phi-units	(0.7782 mm)
Skewness:	0.9272	dimensionless	
Kurtosis:	4.9770	dimensionless	
5th Moment:	11.2118	dimensionless	
6th Moment:	47.3167	dimensionless	
RARD *	0.1494	dimensionless	
Median	2.2652	phi	(0.208 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)

