

**Onshore Grab Sample**

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

**County:** Volusia  
**Latitude:** 29° 17' 02.82"  
**Longitude:** 81° 02' 06.90"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 109.075 grams  
Total Fines in Sample 0.581 grams  
Total Percent Fines 0.53 %

**Dry Sieving Summary**

Total Sample Weight 108.795 grams  
Total Digested Weight 97.516 grams  
Total Carbonate Weight 11.279 grams  
Total Silica % 89.63 %  
Total Carbonate % 10.37 %  
Carbonate/Silica Ratio 0.116

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-12-BB

Total Sample Mass: 108.795 grams

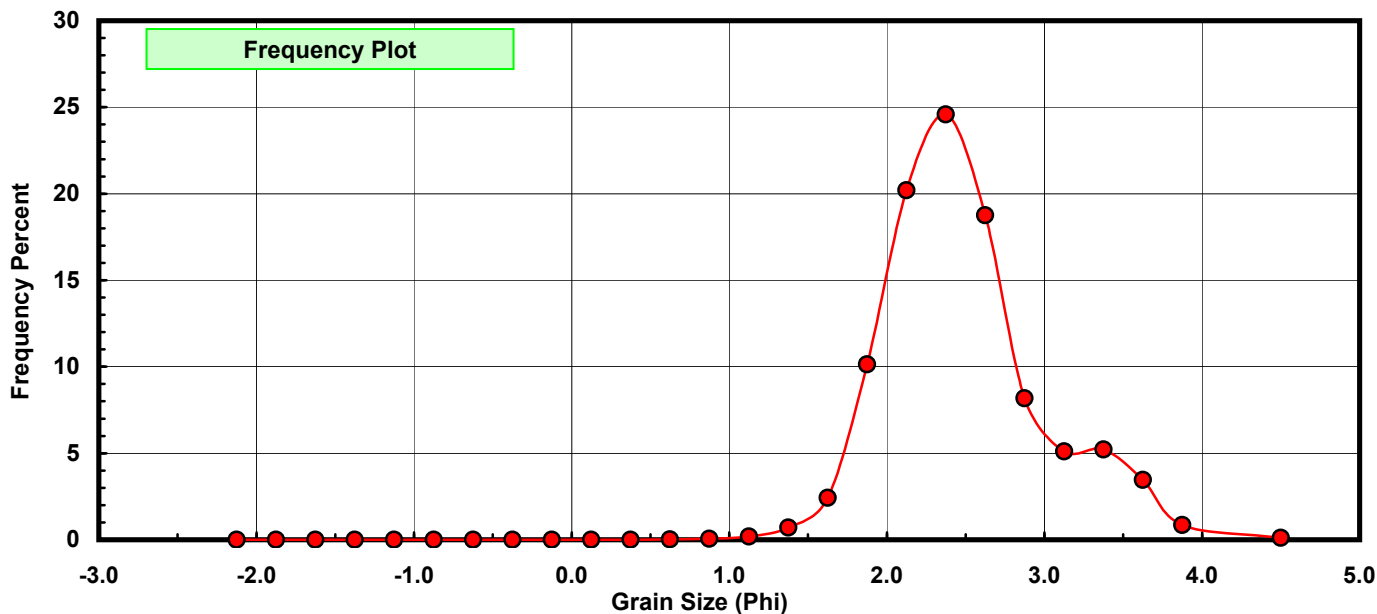
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.001	0.001	0.001
-0.50	-0.625	0.001	0.001	0.002
-0.25	-0.375	0.000	0.000	0.002
0.00	-0.125	0.000	0.000	0.002
0.25	0.125	0.001	0.001	0.003
0.50	0.375	0.009	0.008	0.011
0.75	0.625	0.028	0.026	0.037
1.00	0.875	0.061	0.056	0.093
1.25	1.125	0.203	0.187	0.279
1.50	1.375	0.767	0.705	0.984
1.75	1.625	2.644	2.430	3.415
2.00	1.875	11.023	10.132	13.547
2.25	2.125	21.980	20.203	33.750
2.50	2.375	26.737	24.576	58.325
2.75	2.625	20.398	18.749	77.074
3.00	2.875	8.891	8.172	85.247
3.25	3.125	5.548	5.099	90.346
3.50	3.375	5.681	5.222	95.568
3.75	3.625	3.767	3.462	99.030
4.00	3.875	0.931	0.856	99.886
5.00	4.500	0.124	0.114	100.000

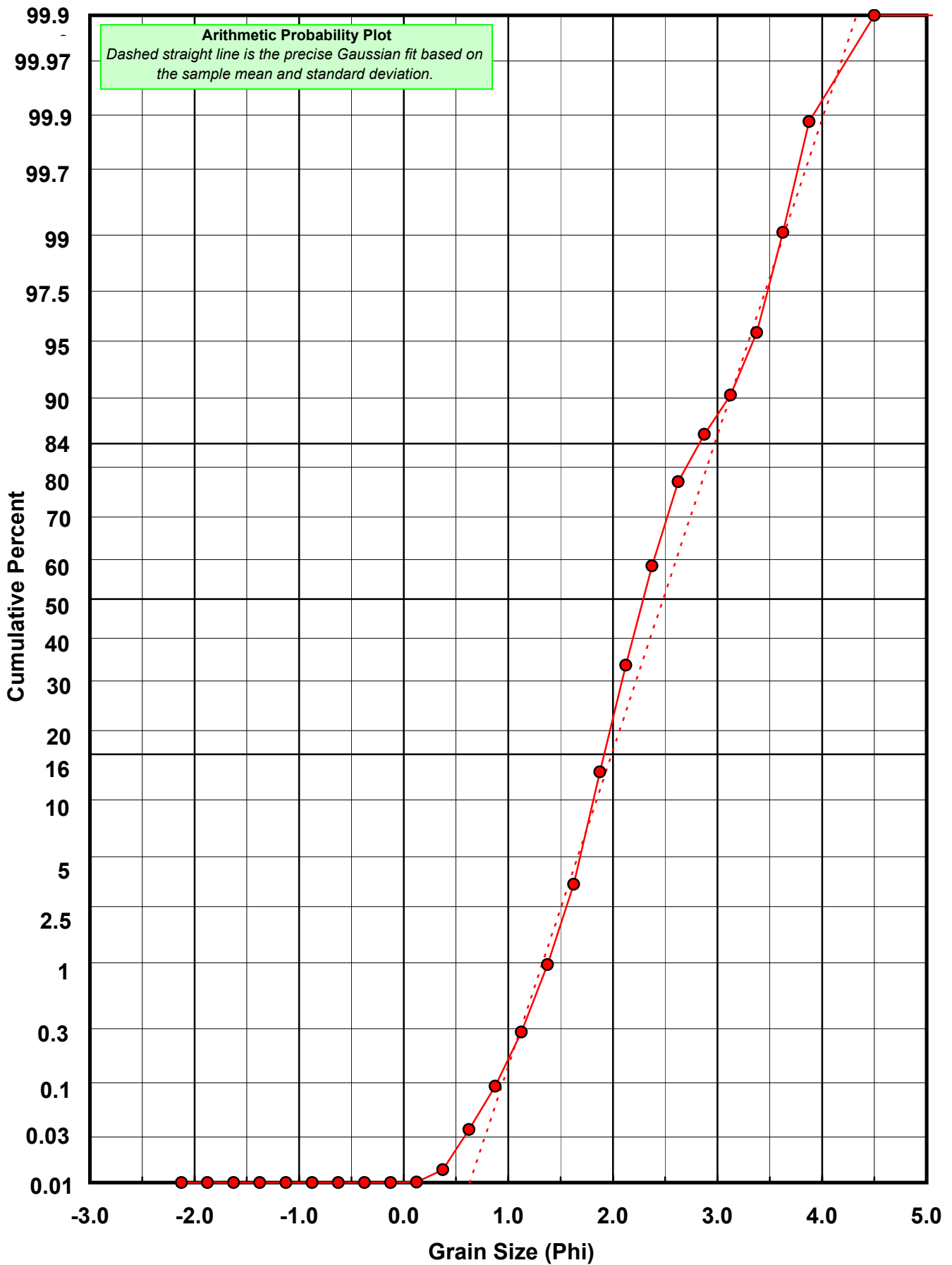
Statistical Results			
Mean:	2.4814	phi	(0.1791 mm)
Standard Dev:	0.4967	phi-units	(0.7087 mm)
Skewness:	0.6071	dimensionless	
Kurtosis:	3.5187	dimensionless	
5th Moment:	4.1331	dimensionless	
6th Moment:	22.7027	dimensionless	
RARD *	0.2002	dimensionless	
Median	2.2903	phi	(0.2044 mm)

\* 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-12-BB

Total Carbonate Mass: 11.481 grams

% Carbonate: 10.4 %

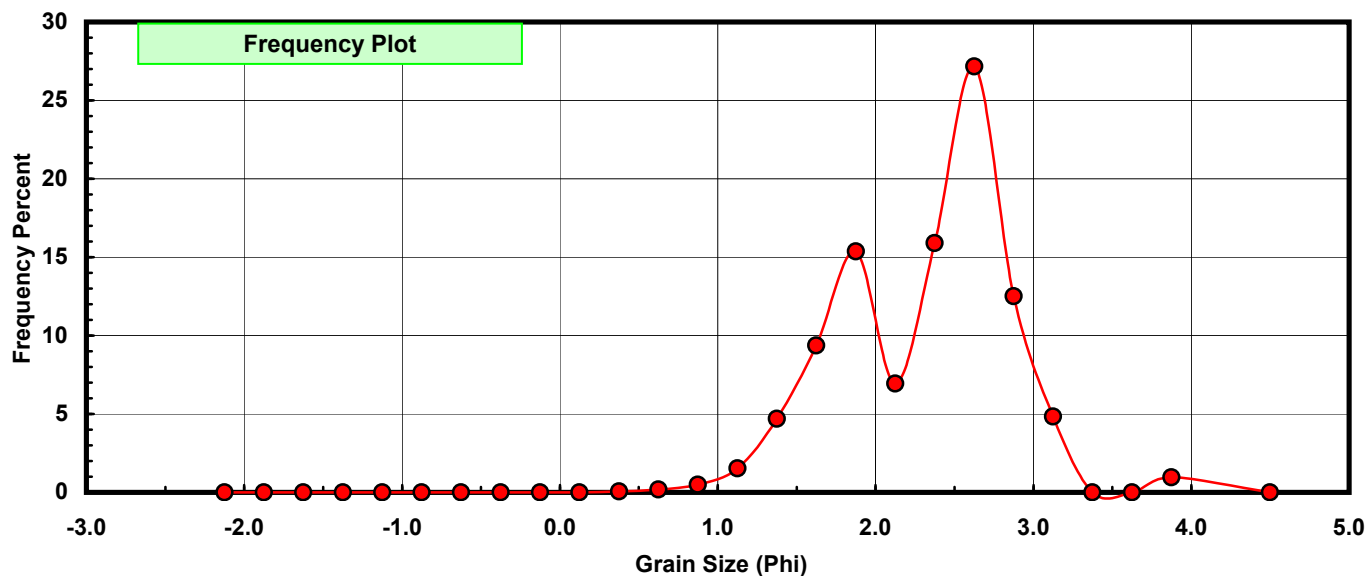
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.001	0.009	0.009
-0.50	-0.625	0.001	0.009	0.017
-0.25	-0.375	0.000	0.000	0.017
0.00	-0.125	0.000	0.000	0.017
0.25	0.125	0.000	0.000	0.017
0.50	0.375	0.006	0.052	0.070
0.75	0.625	0.021	0.183	0.253
1.00	0.875	0.057	0.496	0.749
1.25	1.125	0.175	1.524	2.273
1.50	1.375	0.539	4.695	6.968
1.75	1.625	1.076	9.372	16.340
2.00	1.875	1.764	15.365	31.705
2.25	2.125	0.796	6.933	38.638
2.50	2.375	1.825	15.896	54.534
2.75	2.625	3.118	27.158	81.691
3.00	2.875	1.437	12.516	94.208
3.25	3.125	0.555	4.834	99.042
3.50	3.375	0.000	0.000	99.042
3.75	3.625	0.000	0.000	99.042
4.00	3.875	0.110	0.958	100.000
5.00	4.500	0.000	0.000	100.000

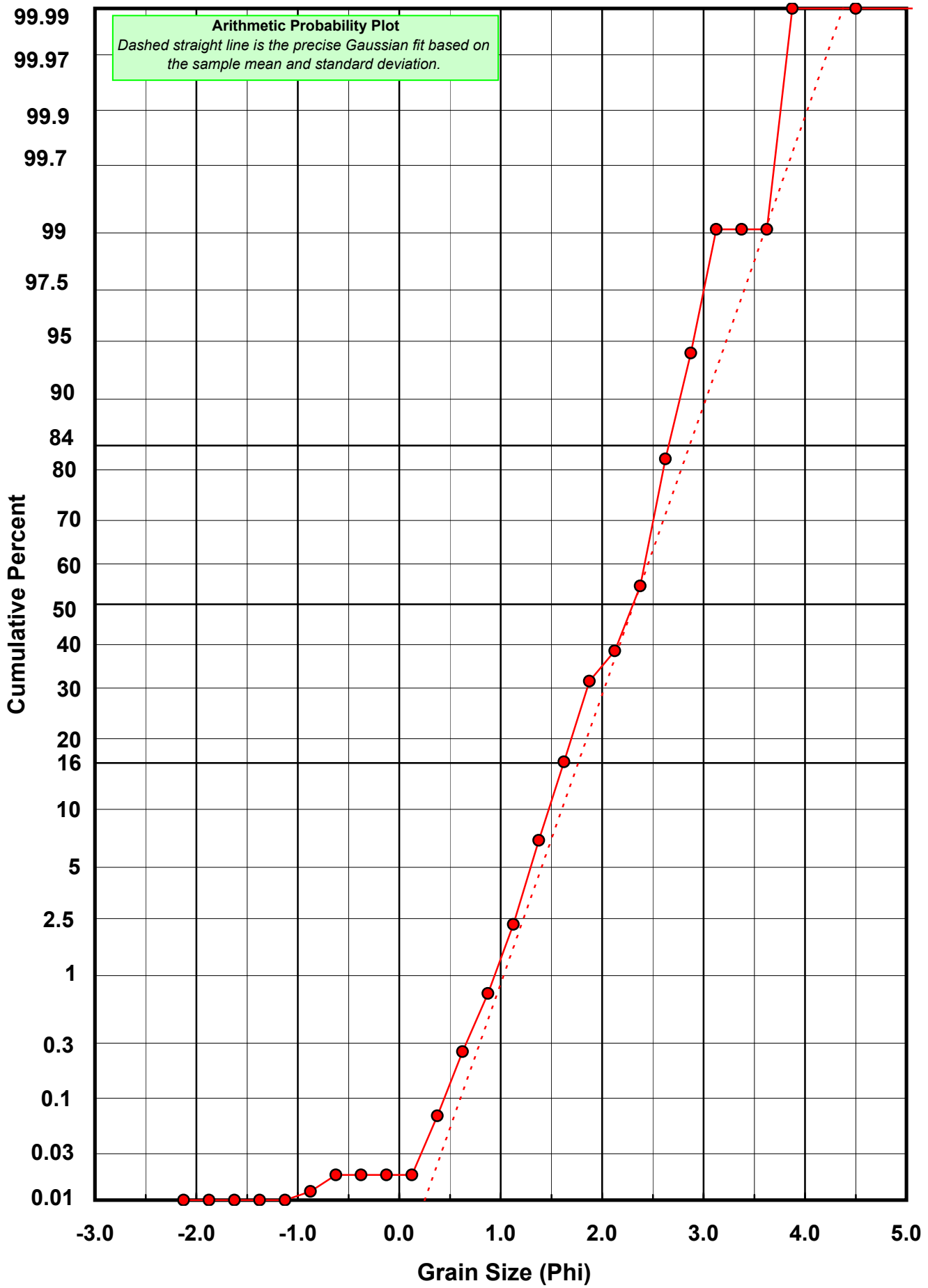
Statistical Results			
Mean:	2.3134	phi	(0.2012 mm)
Standard Dev:	0.5538	phi-units	(0.6812 mm)
Skewness:	-0.3098	dimensionless	
Kurtosis:	2.8592	dimensionless	
5th Moment:	-1.9188	dimensionless	
6th Moment:	19.1555	dimensionless	
RARD *	0.2394	dimensionless	
Median	2.3037	phi	(0.2025 mm)

\* 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-12-BB

Total Digested Mass: 97.396 grams

% Silica: 89.6 %

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	0.000	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	0.006	0.006	0.006
0.50	0.375	0.003	0.003	0.009
0.75	0.625	0.007	0.007	0.016
1.00	0.875	0.004	0.004	0.021
1.25	1.125	0.028	0.029	0.049
1.50	1.375	0.228	0.234	0.283
1.75	1.625	1.568	1.610	1.893
2.00	1.875	9.259	9.507	11.400
2.25	2.125	21.184	21.750	33.150
2.50	2.375	24.912	25.578	58.728
2.75	2.625	17.280	17.742	76.470
3.00	2.875	7.454	7.653	84.124
3.25	3.125	4.993	5.126	89.250
3.50	3.375	5.681	5.833	95.083
3.75	3.625	3.968	4.074	99.157
4.00	3.875	0.821	0.843	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5009	phi	(0.1767 mm)
Standard Dev:	0.4864	phi-units	(0.7138 mm)
Skewness:	0.7329	dimensionless	
Kurtosis:	3.1692	dimensionless	
5th Moment:	4.3344	dimensionless	
6th Moment:	15.7513	dimensionless	
RARD *	0.1945	dimensionless	
Median	2.2897	phi	(0.2045 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)

