

**Onshore Grab Sample**

**Sample:** VO-27-SS  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** N/A

**County:** Volusia  
**Latitude:** 29° 06' 23.04"  
**Longitude:** 80° 56' 28.98"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 71.445 grams  
Total Fines in Sample 0.948 grams  
Total Percent Fines 1.31 %

**Dry Sieving Summary**

Total Sample Weight 70.479 grams  
Total Digested Weight 68.219 grams  
Total Carbonate Weight 2.260 grams  
Total Silica % 96.79 %  
Total Carbonate % 3.21 %  
Carbonate/Silica Ratio 0.033

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-27-SS

Total Sample Mass: 70.479 grams

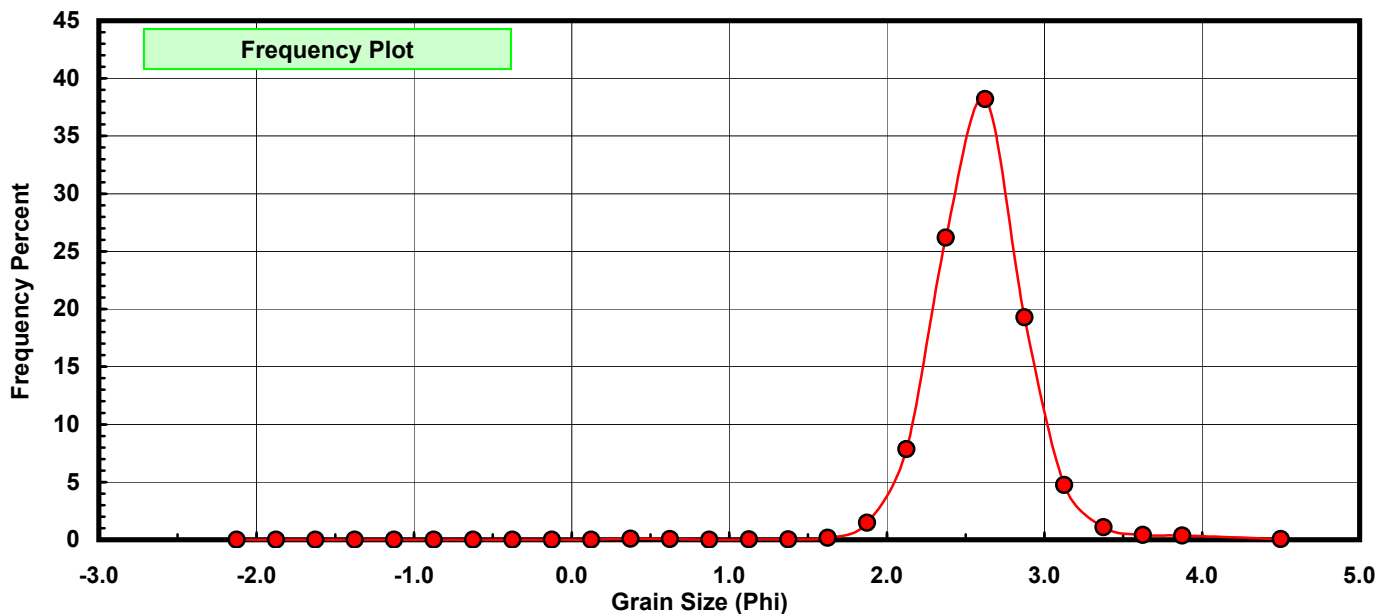
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.009	0.013	0.013
0.50	0.375	0.065	0.092	0.105
0.75	0.625	0.038	0.054	0.159
1.00	0.875	0.007	0.010	0.169
1.25	1.125	0.012	0.017	0.186
1.50	1.375	0.026	0.037	0.223
1.75	1.625	0.122	0.173	0.396
2.00	1.875	1.033	1.466	1.862
2.25	2.125	5.526	7.841	9.702
2.50	2.375	18.450	26.178	35.880
2.75	2.625	26.925	38.203	74.083
3.00	2.875	13.582	19.271	93.354
3.25	3.125	3.342	4.742	98.096
3.50	3.375	0.753	1.068	99.164
3.75	3.625	0.288	0.409	99.573
4.00	3.875	0.262	0.372	99.945
5.00	4.500	0.039	0.055	100.000

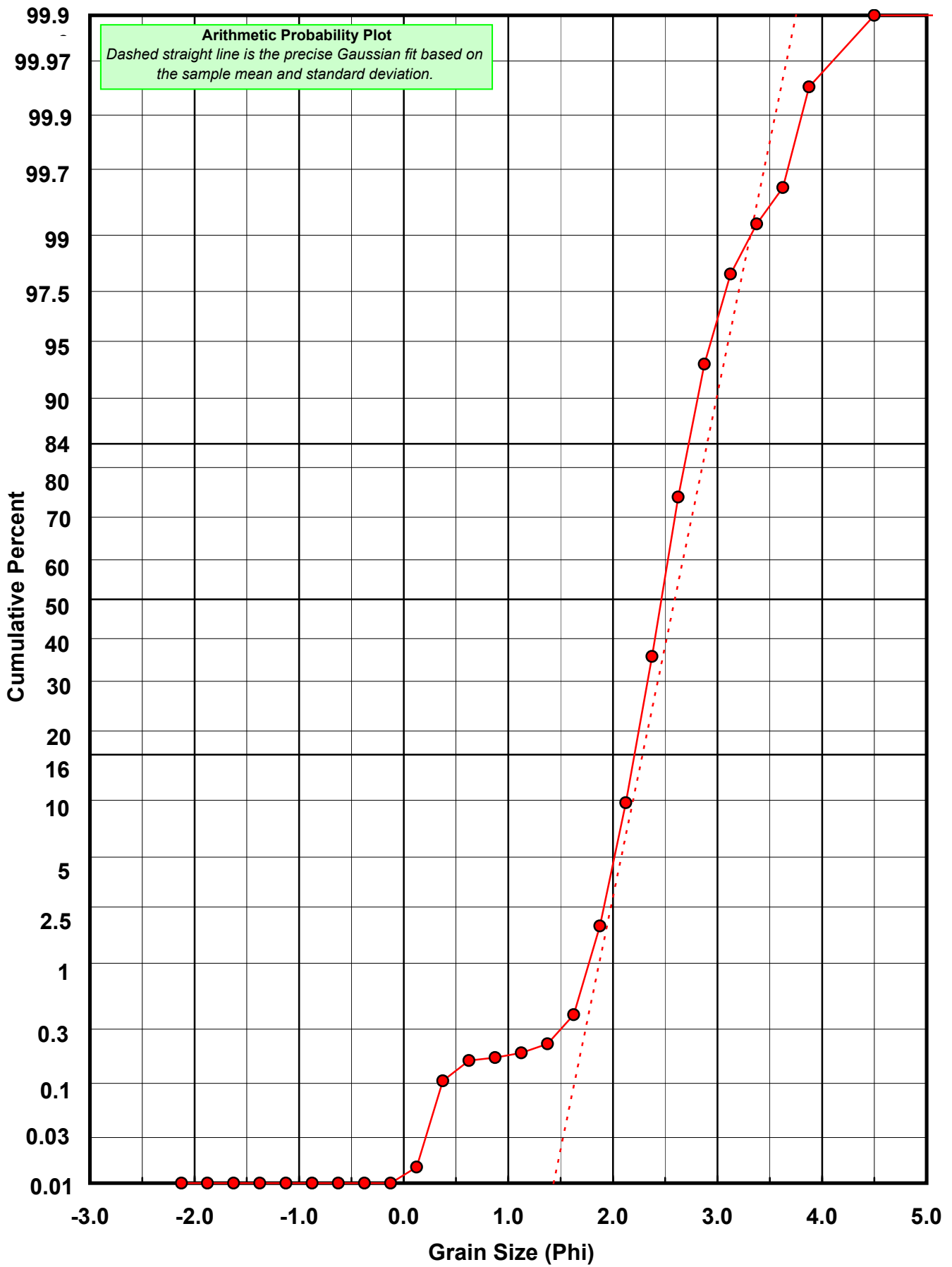
Statistical Results			
Mean:	2.5929	phi	(0.1657 mm)
Standard Dev:	0.3113	phi-units	(0.8059 mm)
Skewness:	-0.0935	dimensionless	
Kurtosis:	8.4647	dimensionless	
5th Moment:	-17.2675	dimensionless	
6th Moment:	257.7941	dimensionless	
RARD *	0.1201	dimensionless	
Median	2.4674	phi	(0.1808 mm)

\* 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-27-SS

Total Carbonate Mass: 3.495 grams

% Carbonate: 3.2 %

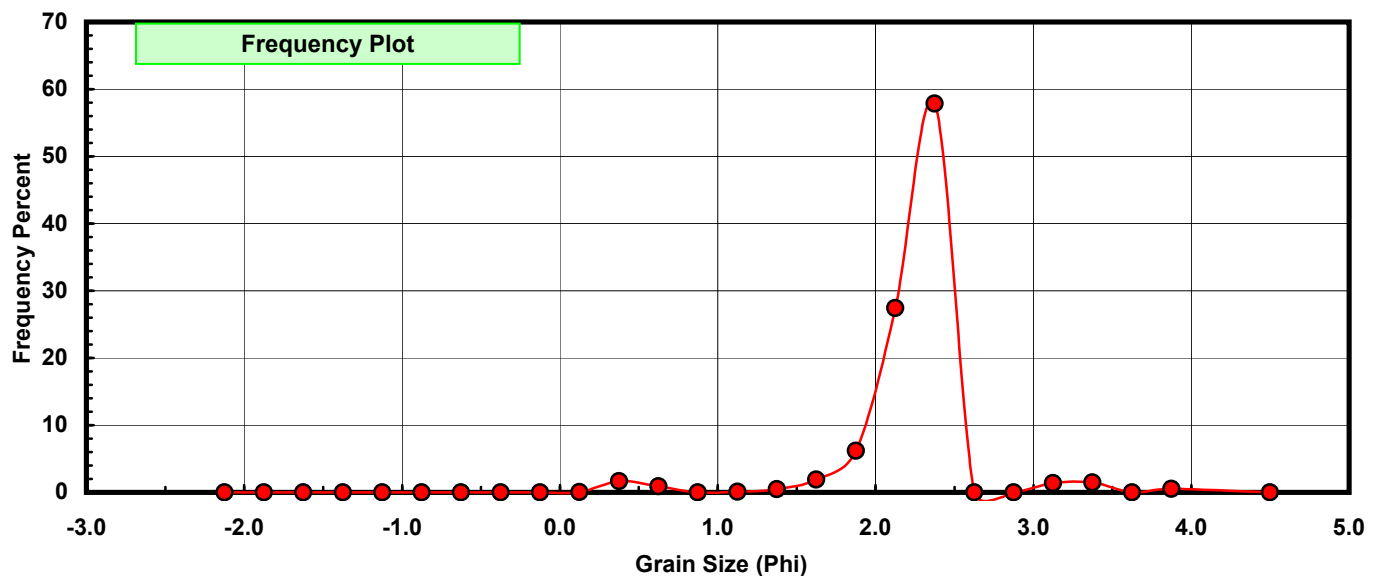
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.002	0.057	0.057
0.50	0.375	0.059	1.688	1.745
0.75	0.625	0.032	0.916	2.661
1.00	0.875	0.000	0.000	2.661
1.25	1.125	0.003	0.086	2.747
1.50	1.375	0.017	0.486	3.233
1.75	1.625	0.066	1.888	5.122
2.00	1.875	0.217	6.209	11.330
2.25	2.125	0.959	27.439	38.770
2.50	2.375	2.022	57.854	96.624
2.75	2.625	0.000	0.000	96.624
3.00	2.875	0.000	0.000	96.624
3.25	3.125	0.048	1.373	97.997
3.50	3.375	0.051	1.459	99.456
3.75	3.625	0.000	0.000	99.456
4.00	3.875	0.019	0.544	100.000
5.00	4.500	0.000	0.000	100.000

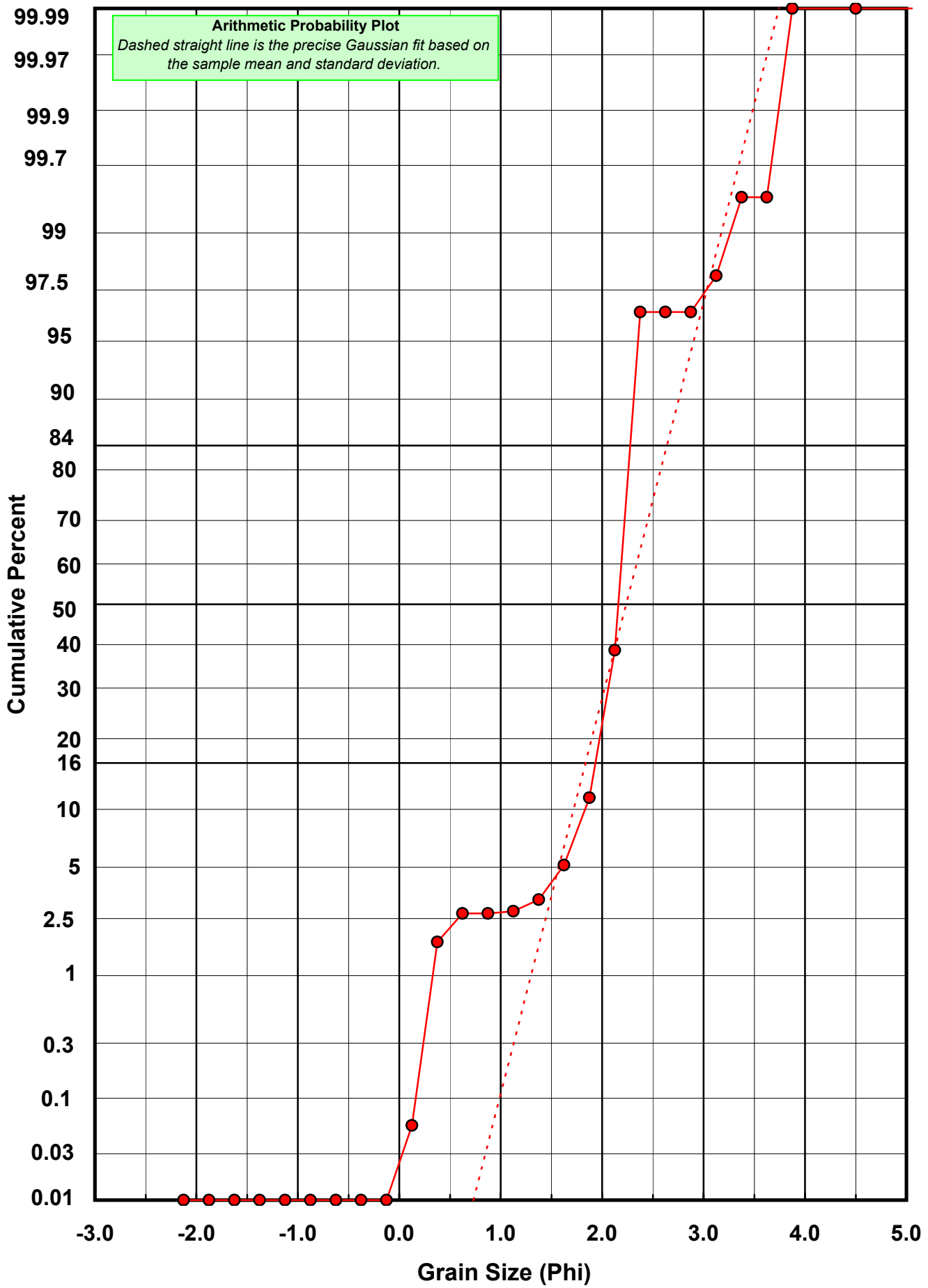
Statistical Results			
Mean:	2.2372	phi	(0.2121 mm)
Standard Dev:	0.4044	phi-units	(0.7556 mm)
Skewness:	-1.6370	dimensionless	
Kurtosis:	13.3251	dimensionless	
5th Moment:	-37.7443	dimensionless	
6th Moment:	243.2375	dimensionless	
RARD *	0.1808	dimensionless	
Median	2.1735	phi	(0.2217 mm)

\* 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-27-SS

Total Digested Mass: 68.167 grams

% Silica: 96.8 %

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	0.007	0.010	0.010
0.50	0.375	0.006	0.009	0.019
0.75	0.625	0.006	0.009	0.028
1.00	0.875	0.008	0.012	0.040
1.25	1.125	0.009	0.013	0.053
1.50	1.375	0.009	0.013	0.066
1.75	1.625	0.056	0.082	0.148
2.00	1.875	0.816	1.197	1.345
2.25	2.125	4.567	6.700	8.045
2.50	2.375	16.428	24.100	32.145
2.75	2.625	27.204	39.908	72.052
3.00	2.875	14.432	21.172	93.224
3.25	3.125	3.294	4.832	98.056
3.50	3.375	0.702	1.030	99.086
3.75	3.625	0.380	0.557	99.644
4.00	3.875	0.243	0.356	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6151	phi	(0.1632 mm)
Standard Dev:	0.2917	phi-units	(0.817 mm)
Skewness:	0.2481	dimensionless	
Kurtosis:	5.7610	dimensionless	
5th Moment:	-2.2121	dimensionless	
6th Moment:	120.4100	dimensionless	
RARD *	0.1115	dimensionless	
Median	2.4869	phi	(0.1784 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)

