

**Onshore Grab Sample**

**Sample:** VO-29-SS  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** N/A

**County:** Volusia  
**Latitude:** 29° 05' 6.36"  
**Longitude:** 80° 55' 29.28"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 90.276 grams  
Total Fines in Sample 0.810 grams  
Total Percent Fines 0.89 %

**Dry Sieving Summary**

Total Sample Weight 89.544 grams  
Total Digested Weight 83.026 grams  
Total Carbonate Weight 6.518 grams  
Total Silica % 92.72 %  
Total Carbonate % 7.28 %  
Carbonate/Silica Ratio 0.079

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-29-SS

Total Sample Mass: 89.544 grams

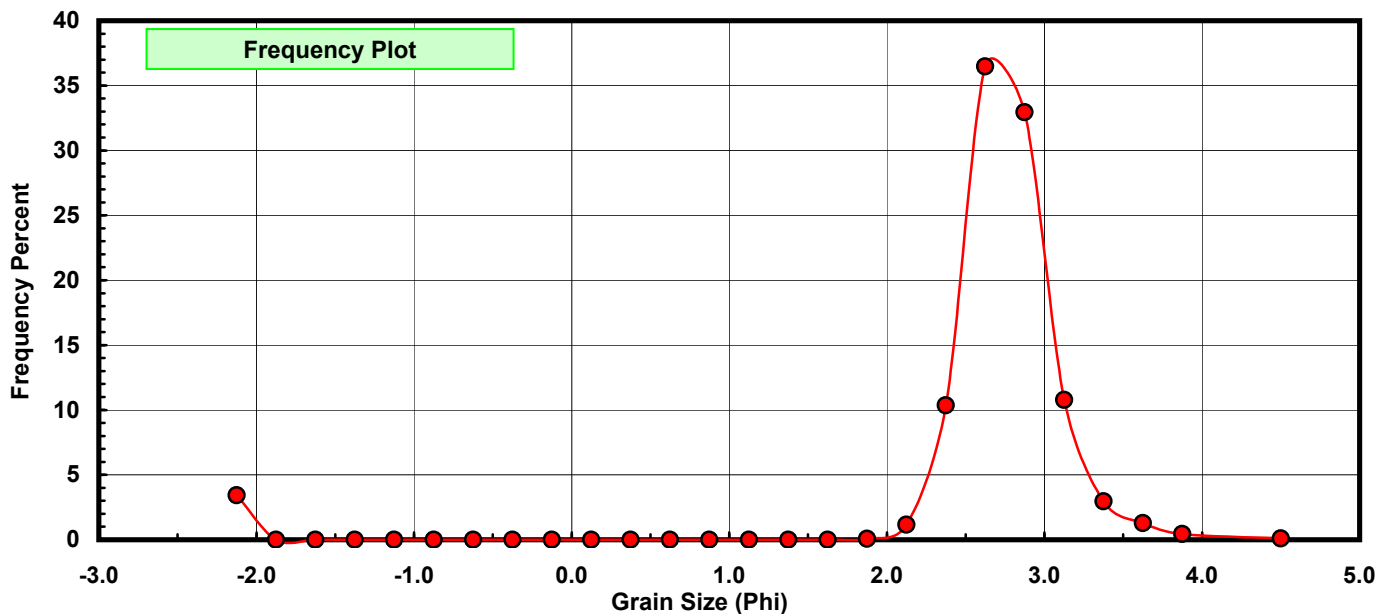
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	3.064	3.422	3.422
-1.75	-1.875	0.000	0.000	3.422
-1.50	-1.625	0.000	0.000	3.422
-1.25	-1.375	0.000	0.000	3.422
-1.00	-1.125	0.000	0.000	3.422
-0.75	-0.875	0.000	0.000	3.422
-0.50	-0.625	0.000	0.000	3.422
-0.25	-0.375	0.000	0.000	3.422
0.00	-0.125	0.000	0.000	3.422
0.25	0.125	0.000	0.000	3.422
0.50	0.375	0.000	0.000	3.422
0.75	0.625	0.008	0.009	3.431
1.00	0.875	0.002	0.002	3.433
1.25	1.125	0.003	0.003	3.436
1.50	1.375	0.001	0.001	3.437
1.75	1.625	0.005	0.006	3.443
2.00	1.875	0.069	0.077	3.520
2.25	2.125	1.036	1.157	4.677
2.50	2.375	9.270	10.352	15.029
2.75	2.625	32.650	36.463	51.492
3.00	2.875	29.508	32.954	84.446
3.25	3.125	9.651	10.778	95.224
3.50	3.375	2.660	2.971	98.194
3.75	3.625	1.149	1.283	99.477
4.00	3.875	0.390	0.436	99.913
5.00	4.500	0.078	0.087	100.000

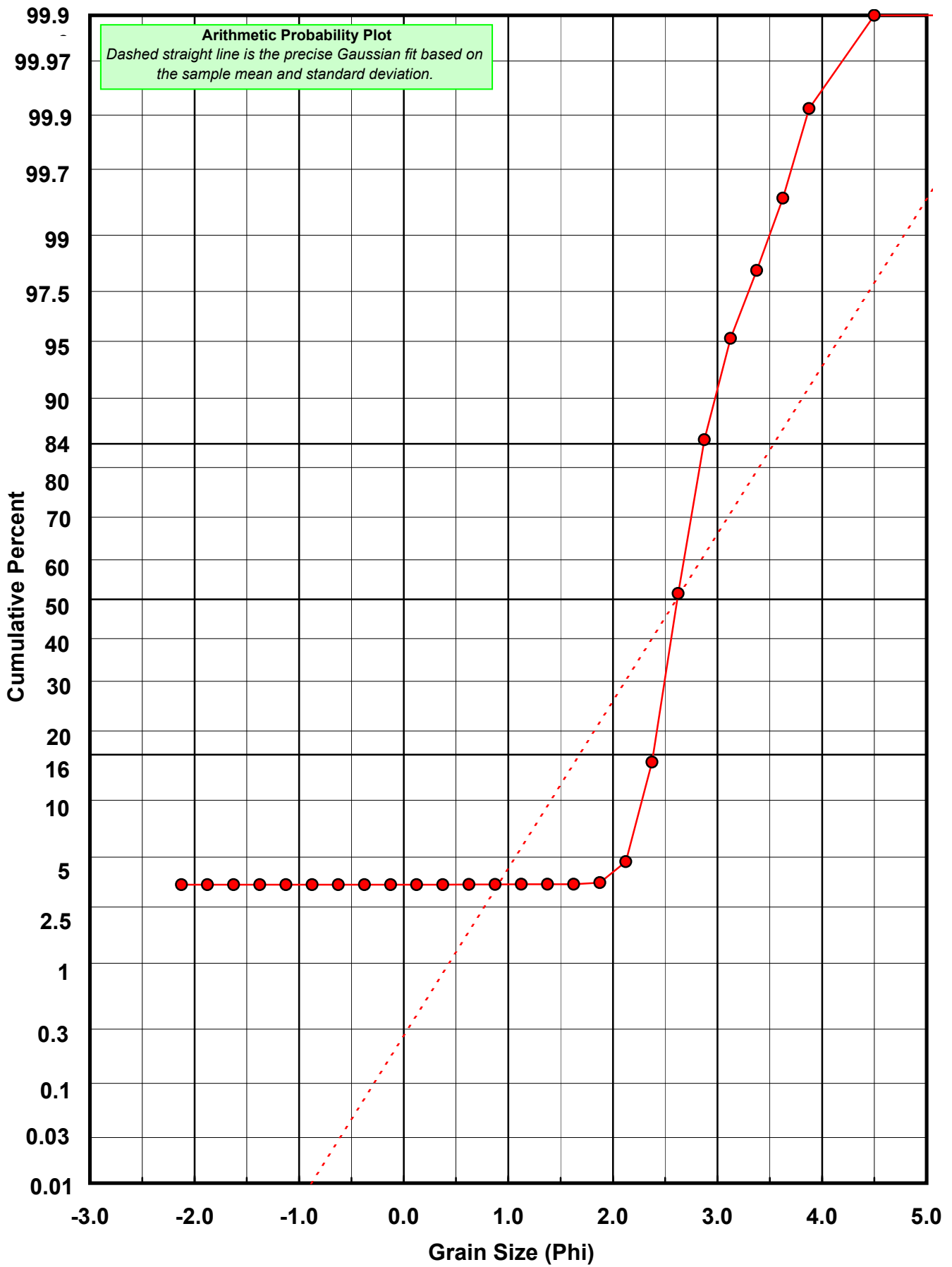
Statistical Results			
Mean:	2.6083	phi	(0.164 mm)
Standard Dev:	0.9375	phi-units	(0.5221 mm)
Skewness:	-4.3816	dimensionless	
Kurtosis:	22.5635	dimensionless	
5th Moment:	-113.4534	dimensionless	
6th Moment:	573.3532	dimensionless	
RARD *	0.3594	dimensionless	
Median	2.6148	phi	(0.1633 mm)

\* 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-29-SS

Total Carbonate Mass: 6.799 grams

% Carbonate: 7.3 %

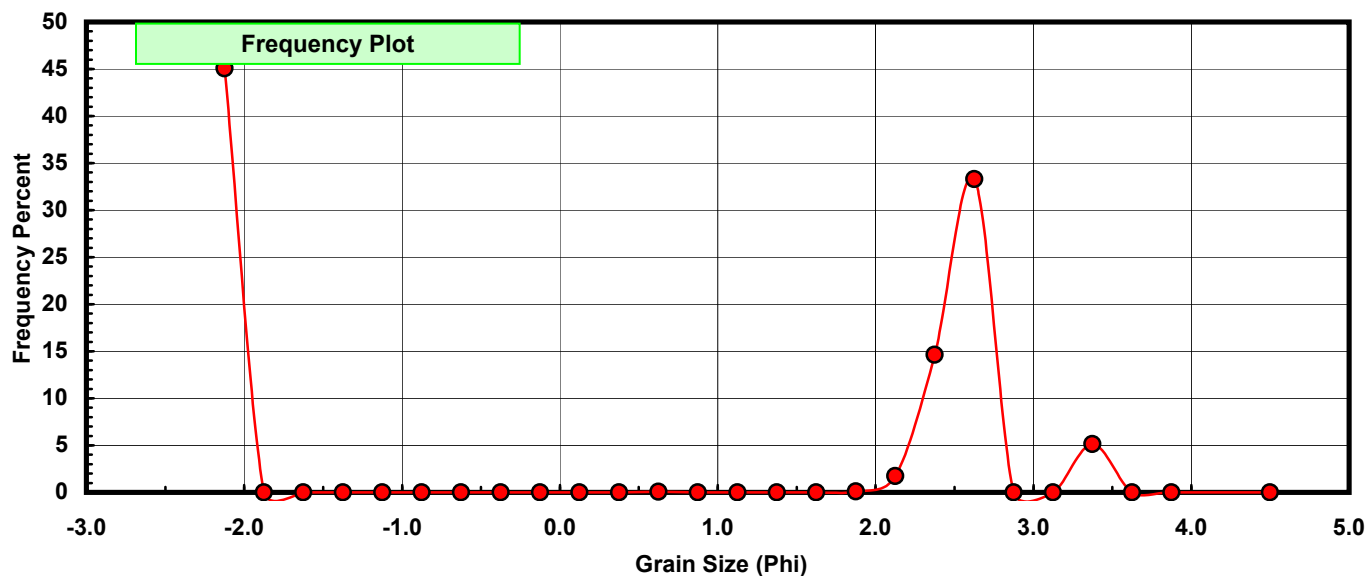
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	3.064	45.065	45.065
-1.75	-1.875	0.000	0.000	45.065
-1.50	-1.625	0.000	0.000	45.065
-1.25	-1.375	0.000	0.000	45.065
-1.00	-1.125	0.000	0.000	45.065
-0.75	-0.875	0.000	0.000	45.065
-0.50	-0.625	0.000	0.000	45.065
-0.25	-0.375	0.000	0.000	45.065
0.00	-0.125	0.000	0.000	45.065
0.25	0.125	0.000	0.000	45.065
0.50	0.375	0.000	0.000	45.065
0.75	0.625	0.004	0.059	45.124
1.00	0.875	0.000	0.000	45.124
1.25	1.125	0.000	0.000	45.124
1.50	1.375	0.000	0.000	45.124
1.75	1.625	0.000	0.000	45.124
2.00	1.875	0.006	0.088	45.213
2.25	2.125	0.119	1.750	46.963
2.50	2.375	0.994	14.620	61.583
2.75	2.625	2.263	33.284	94.867
3.00	2.875	0.000	0.000	94.867
3.25	3.125	0.000	0.000	94.867
3.50	3.375	0.349	5.133	100.000
3.75	3.625	0.000	0.000	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

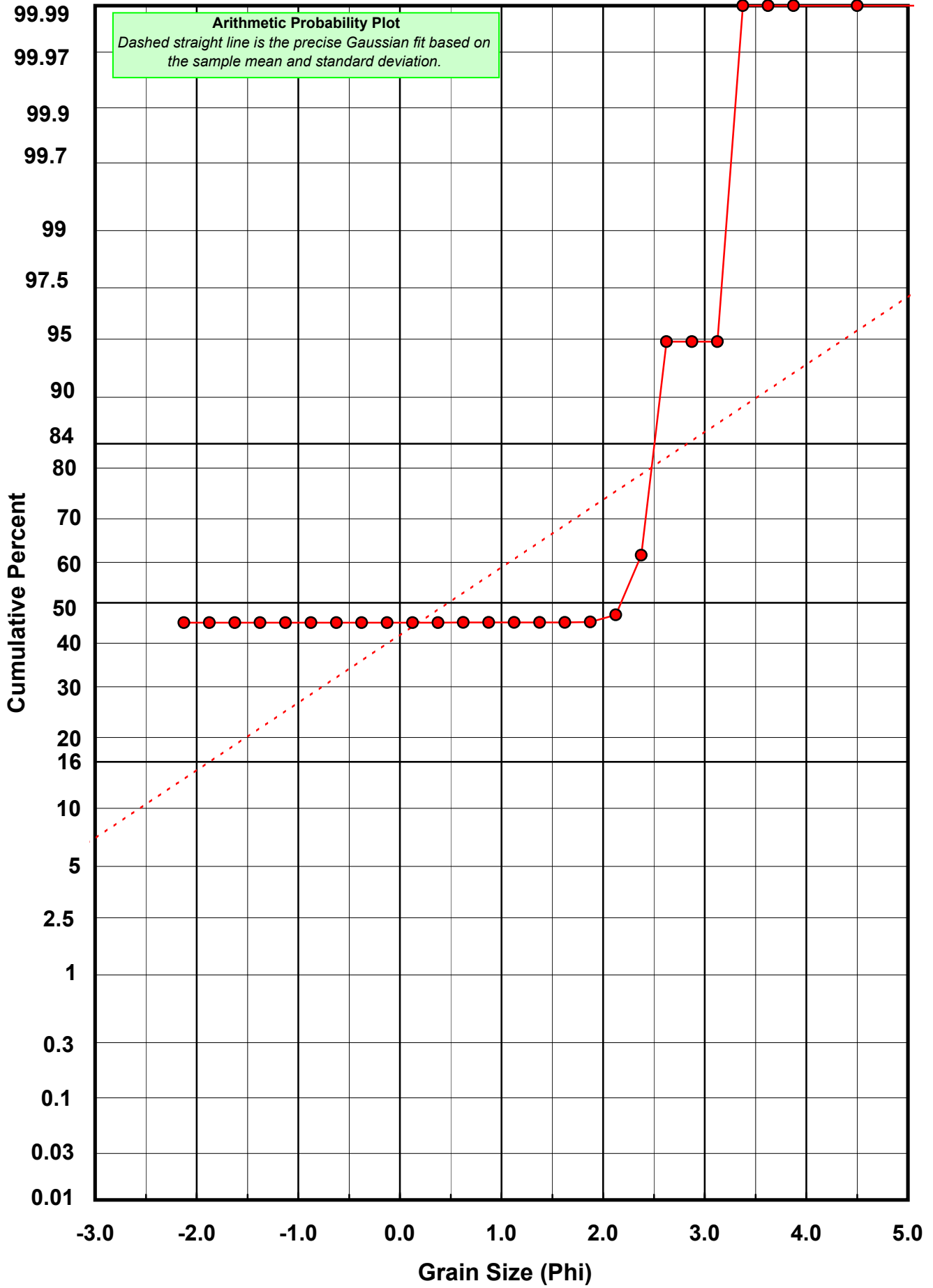
Statistical Results			
Mean:	0.4758	phi	(0.7191 mm)
Standard Dev:	2.3651	phi-units	(0.1941 mm)
Skewness:	-0.1731	dimensionless	
Kurtosis:	1.0668	dimensionless	
5th Moment:	-0.3244	dimensionless	
6th Moment:	1.1996	dimensionless	
RARD *	4.9714	dimensionless	
Median	2.1769	phi	(0.2211 mm)

\* 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-29-SS

Total Digested Mass: 82.918 grams

% Silica: 92.7 %

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	0.006	0.006
0.75	0.625	0.004	0.005	0.011
1.00	0.875	0.006	0.007	0.018
1.25	1.125	0.003	0.004	0.022
1.50	1.375	0.005	0.006	0.028
1.75	1.625	0.007	0.008	0.036
2.00	1.875	0.063	0.076	0.112
2.25	2.125	0.917	1.106	1.218
2.50	2.375	8.276	9.981	11.199
2.75	2.625	30.387	36.647	47.846
3.00	2.875	29.516	35.597	83.443
3.25	3.125	9.697	11.695	95.137
3.50	3.375	2.311	2.787	97.924
3.75	3.625	1.205	1.453	99.378
4.00	3.875	0.516	0.622	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.7841	phi	(0.1452 mm)
Standard Dev:	0.2783	phi-units	(0.8245 mm)
Skewness:	0.6121	dimensionless	
Kurtosis:	5.3009	dimensionless	
5th Moment:	3.2083	dimensionless	
6th Moment:	88.0120	dimensionless	
RARD *	0.1000	dimensionless	
Median	2.6401	phi	(0.1604 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)

