

**Onshore Grab Sample**

**Sample:** VO-04-SS  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** N/A

**County:** Volusia  
**Latitude:** 29° 23' 49.74"  
**Longitude:** 81° 05' 50.16"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 76.101 grams  
Total Fines in Sample 0.642 grams  
Total Percent Fines 0.84 %

**Dry Sieving Summary**

Total Sample Weight 75.360 grams  
Total Digested Weight 49.492 grams  
Total Carbonate Weight 25.868 grams  
Total Silica % 65.67 %  
Total Carbonate % 34.33 %  
Carbonate/Silica Ratio 0.523

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-04-SS

Total Sample Mass: 75.360 grams

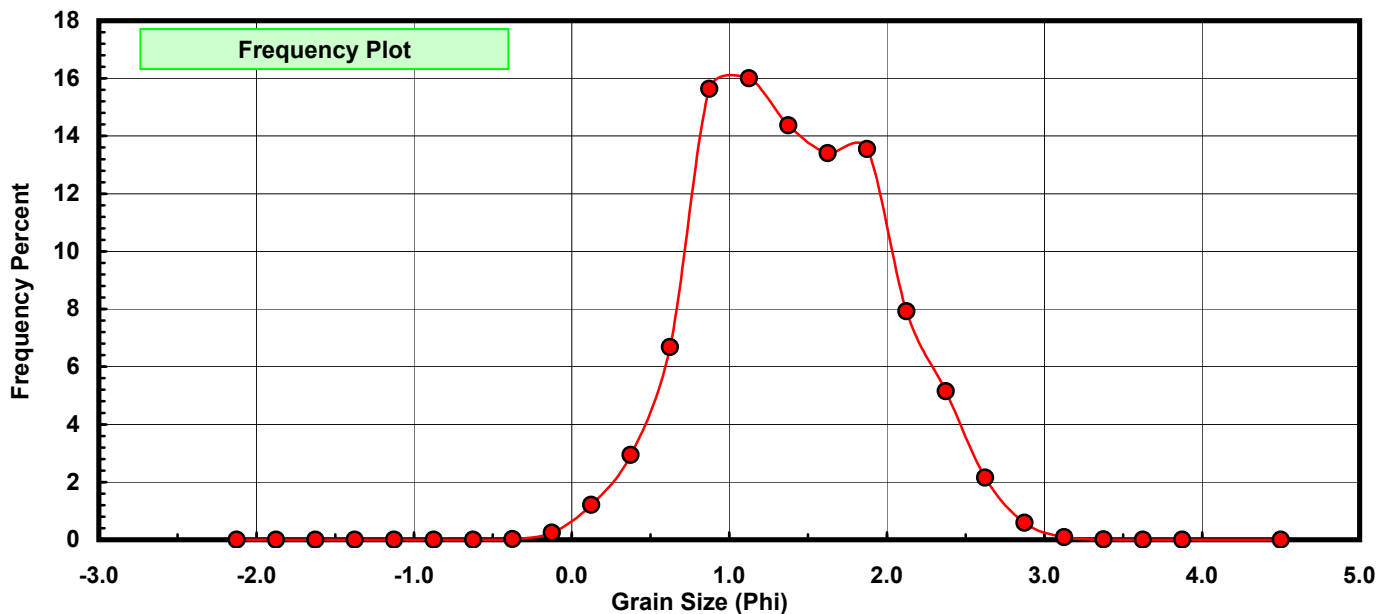
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.004	0.005	0.005
-0.50	-0.625	0.001	0.001	0.007
-0.25	-0.375	0.020	0.027	0.033
0.00	-0.125	0.187	0.248	0.281
0.25	0.125	0.913	1.212	1.493
0.50	0.375	2.218	2.943	4.436
0.75	0.625	5.037	6.684	11.120
1.00	0.875	11.784	15.637	26.757
1.25	1.125	12.058	16.001	42.757
1.50	1.375	10.829	14.370	57.127
1.75	1.625	10.099	13.401	70.528
2.00	1.875	10.214	13.554	84.082
2.25	2.125	5.973	7.926	92.008
2.50	2.375	3.877	5.145	97.152
2.75	2.625	1.621	2.151	99.303
3.00	2.875	0.445	0.590	99.894
3.25	3.125	0.070	0.093	99.987
3.50	3.375	0.010	0.013	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

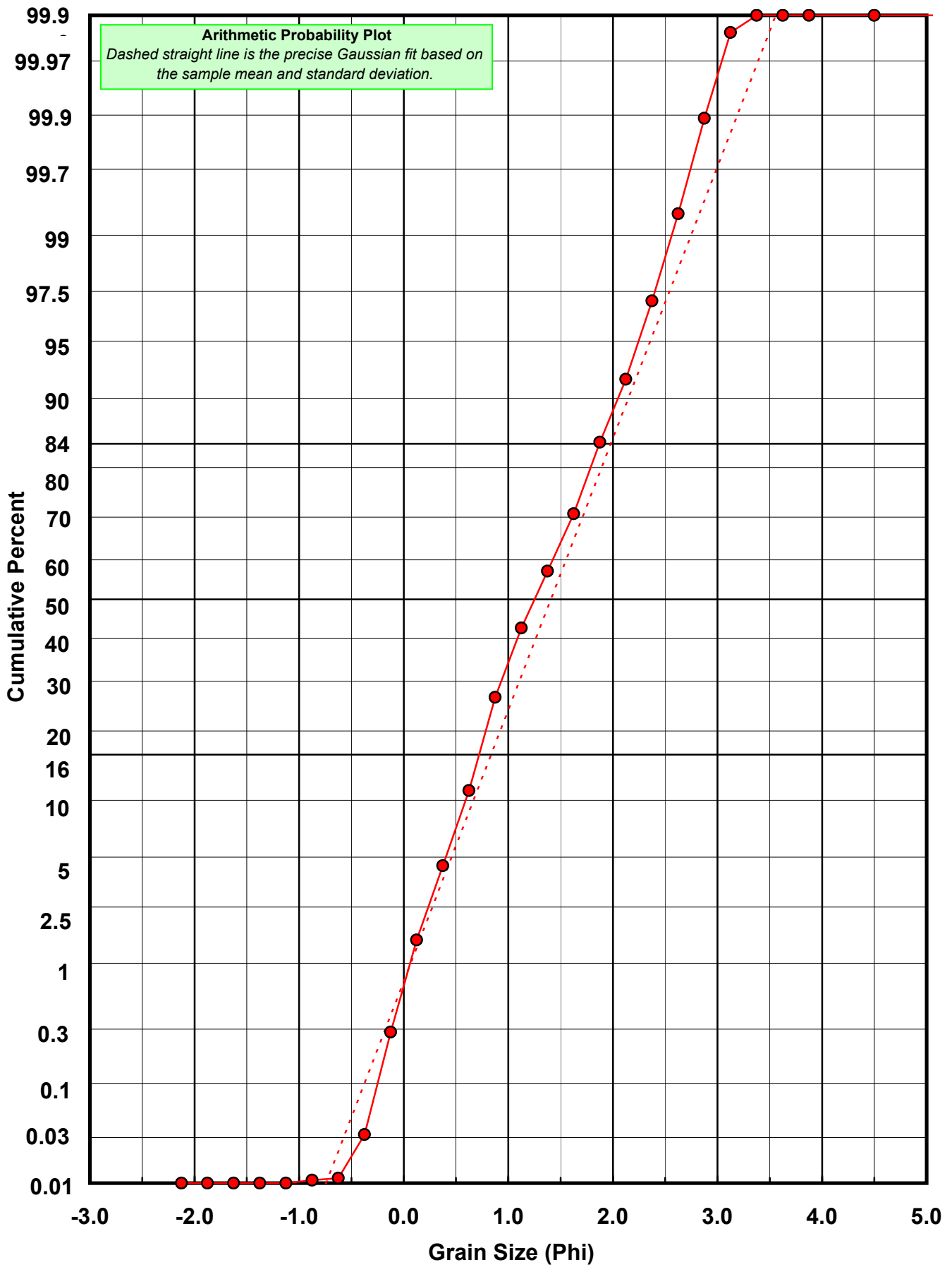
Statistical Results			
Mean:	1.4076	phi	(0.3769 mm)
Standard Dev:	0.5777	phi-units	(0.67 mm)
Skewness:	0.1359	dimensionless	
Kurtosis:	2.5527	dimensionless	
5th Moment:	0.7017	dimensionless	
6th Moment:	10.1635	dimensionless	
RARD *	0.4104	dimensionless	
Median	1.2510	phi	(0.4202 mm)

\* 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-04-SS

Total Carbonate Mass: 26.712 grams

% Carbonate: 34.3 %

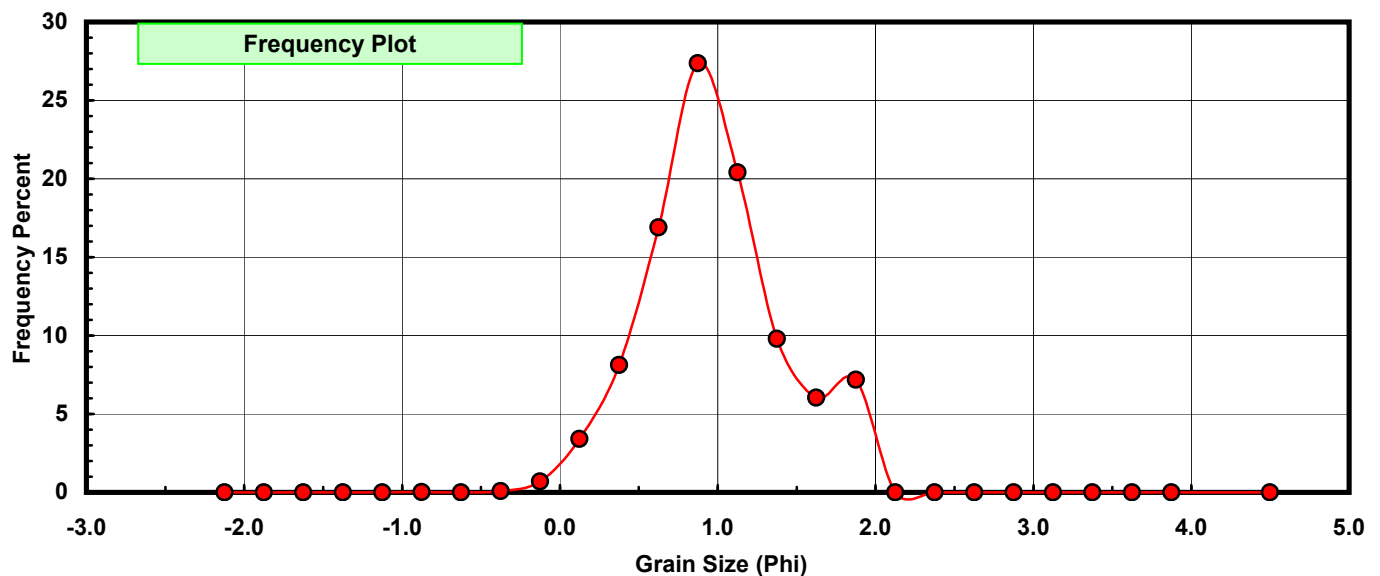
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.004	0.015	0.015
-0.50	-0.625	0.001	0.004	0.019
-0.25	-0.375	0.020	0.075	0.094
0.00	-0.125	0.187	0.700	0.794
0.25	0.125	0.912	3.414	4.208
0.50	0.375	2.171	8.127	12.335
0.75	0.625	4.514	16.899	29.234
1.00	0.875	7.308	27.358	56.593
1.25	1.125	5.449	20.399	76.992
1.50	1.375	2.616	9.793	86.785
1.75	1.625	1.613	6.038	92.823
2.00	1.875	1.917	7.177	100.000
2.25	2.125	0.000	0.000	100.000
2.50	2.375	0.000	0.000	100.000
2.75	2.625	0.000	0.000	100.000
3.00	2.875	0.000	0.000	100.000
3.25	3.125	0.000	0.000	100.000
3.50	3.375	0.000	0.000	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

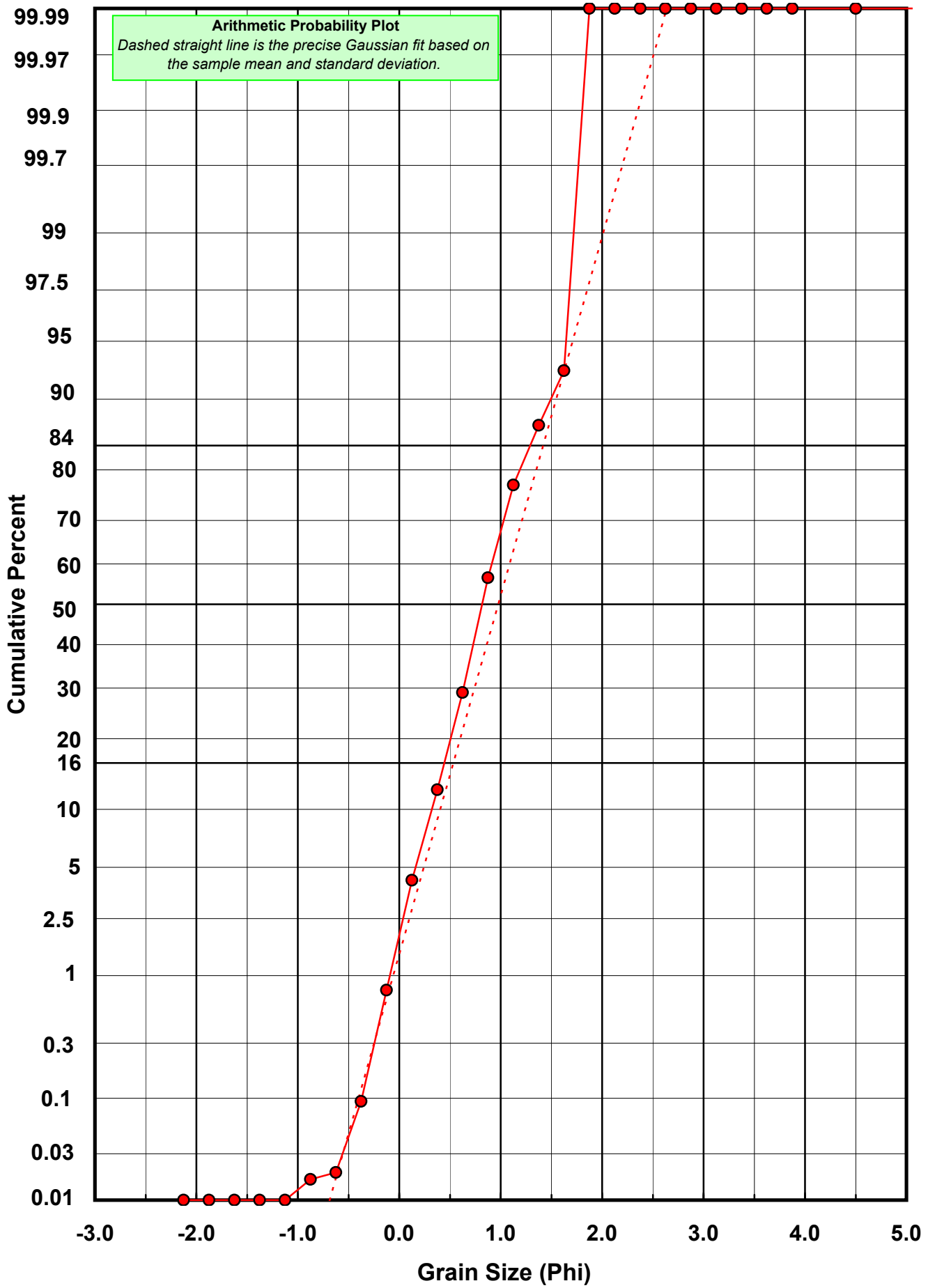
Statistical Results			
Mean:	0.9753	phi	(0.5086 mm)
Standard Dev:	0.4463	phi-units	(0.7339 mm)
Skewness:	0.2033	dimensionless	
Kurtosis:	2.7791	dimensionless	
5th Moment:	0.5650	dimensionless	
6th Moment:	10.9970	dimensionless	
RARD *	0.4576	dimensionless	
Median	0.8148	phi	(0.5685 mm)

\* 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-04-SS

Total Digested Mass: 49.492 grams

% Silica: 65.7 %

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	0.001	0.002	0.002
0.50	0.375	0.047	0.095	0.097
0.75	0.625	0.523	1.057	1.154
1.00	0.875	4.476	9.044	10.198
1.25	1.125	6.609	13.354	23.551
1.50	1.375	8.213	16.595	40.146
1.75	1.625	8.486	17.146	57.292
2.00	1.875	8.297	16.764	74.056
2.25	2.125	6.149	12.424	86.481
2.50	2.375	4.009	8.100	94.581
2.75	2.625	2.034	4.110	98.691
3.00	2.875	0.546	1.103	99.794
3.25	3.125	0.083	0.168	99.962
3.50	3.375	0.019	0.038	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:	1.6600	phi	(0.3164 mm)
Standard Dev:	0.5110	phi-units	(0.7017 mm)
Skewness:	0.1977	dimensionless	
Kurtosis:	2.3833	dimensionless	
5th Moment:	1.4454	dimensionless	
6th Moment:	8.5393	dimensionless	
RARD *	0.3079	dimensionless	
Median	1.5187	phi	(0.349 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)

