

Onshore Grab Sample

Sample: VO-31-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? Yes

County: Volusia
Latitude: 29° 04' 16.98"
Longitude: 80° 54' 39.00"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 46.937 grams
Total Fines in Sample 0.589 grams
Total Percent Fines 1.24 %

Dry Sieving Summary

Total Sample Weight 46.368 grams
Total Digested Weight 45.617 grams
Total Carbonate Weight 0.751 grams
Total Silica % 98.38 %
Total Carbonate % 1.62 %
Carbonate/Silica Ratio 0.016

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-31-SS

Total Sample Mass: 46.368 grams

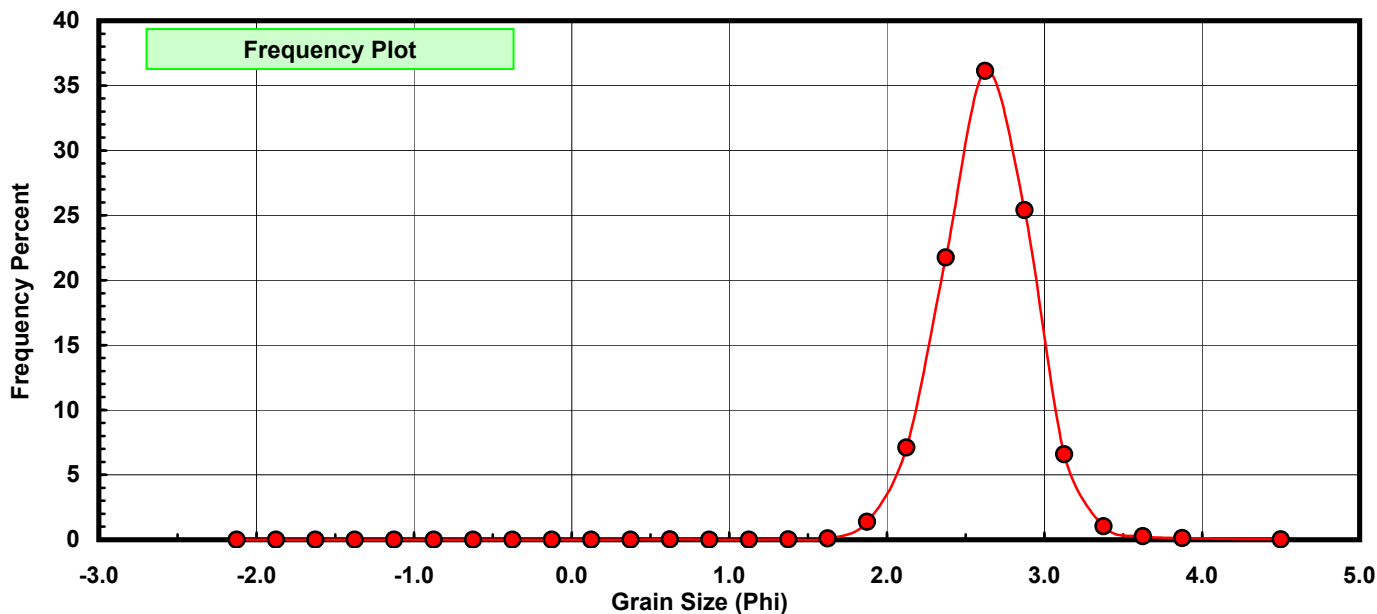
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.000	0.000	0.000
0.75	0.625	0.009	0.019	0.019
1.00	0.875	0.004	0.009	0.028
1.25	1.125	0.004	0.009	0.037
1.50	1.375	0.010	0.022	0.058
1.75	1.625	0.050	0.108	0.166
2.00	1.875	0.643	1.387	1.553
2.25	2.125	3.296	7.108	8.661
2.50	2.375	10.082	21.743	30.405
2.75	2.625	16.754	36.133	66.537
3.00	2.875	11.778	25.401	91.938
3.25	3.125	3.055	6.589	98.527
3.50	3.375	0.485	1.046	99.573
3.75	3.625	0.129	0.278	99.851
4.00	3.875	0.060	0.129	99.981
5.00	4.500	0.009	0.019	100.000

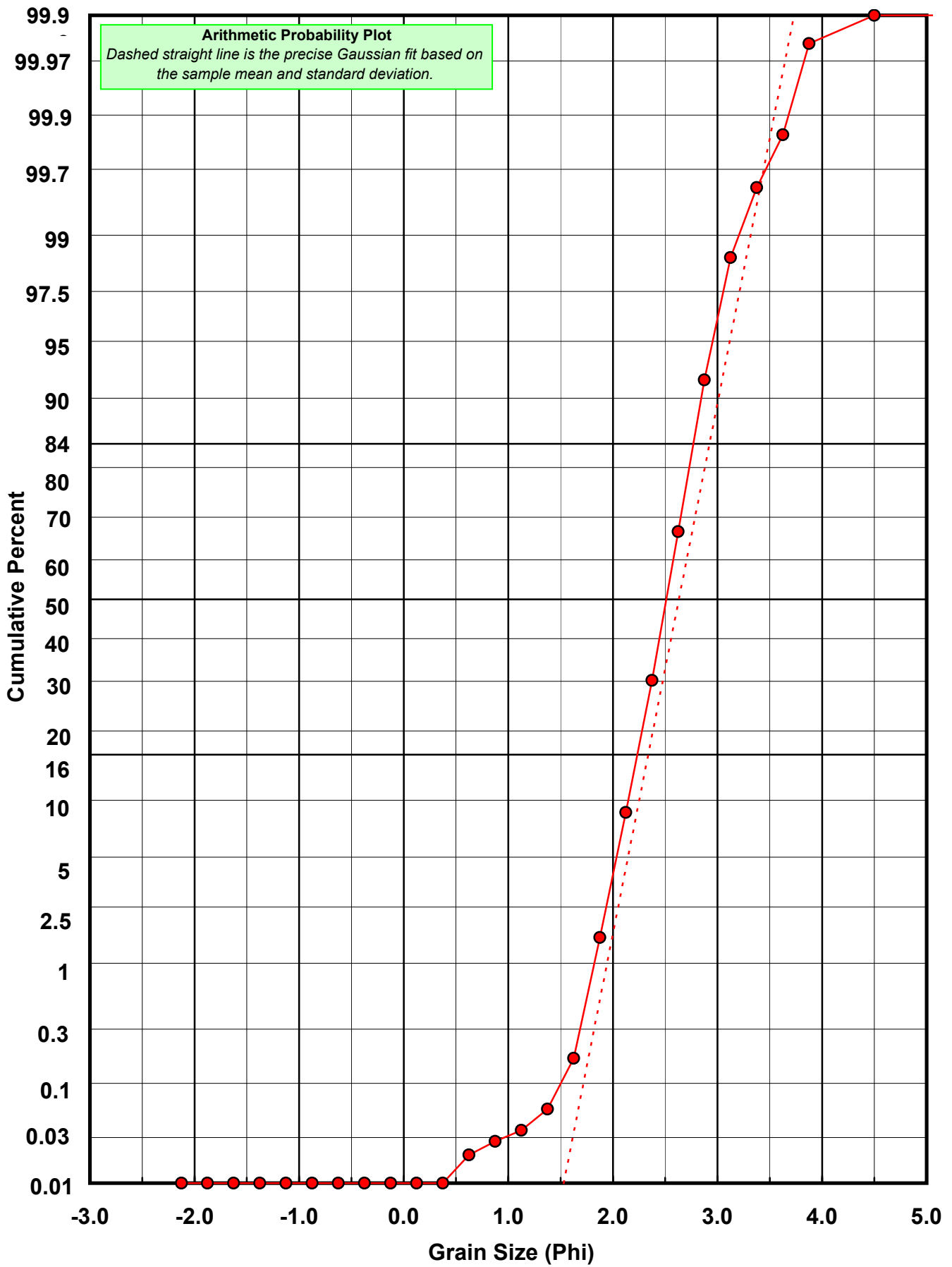
Statistical Results			
Mean:	2.6317	phi	(0.1613 mm)
Standard Dev:	0.2956	phi-units	(0.8147 mm)
Skewness:	-0.0182	dimensionless	
Kurtosis:	4.3363	dimensionless	
5th Moment:	-0.3695	dimensionless	
6th Moment:	62.1192	dimensionless	
RARD *	0.1123	dimensionless	
Median	2.5106	phi	(0.1755 mm)

* 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-31-SS

Total Carbonate Mass: 1.821 grams

% Carbonate: 1.6 %

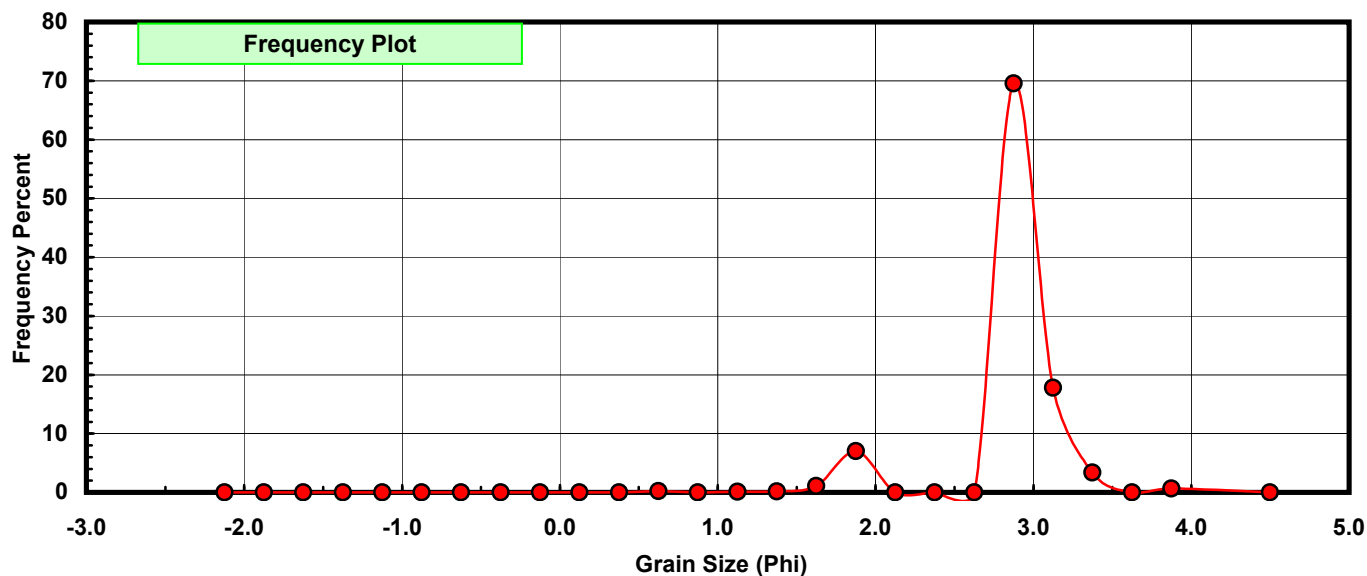
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.000	0.000	0.000
0.75	0.625	0.004	0.220	0.220
1.00	0.875	0.000	0.000	0.220
1.25	1.125	0.002	0.110	0.329
1.50	1.375	0.003	0.165	0.494
1.75	1.625	0.020	1.098	1.593
2.00	1.875	0.128	7.029	8.622
2.25	2.125	0.000	0.000	8.622
2.50	2.375	0.000	0.000	8.622
2.75	2.625	0.000	0.000	8.622
3.00	2.875	1.267	69.577	78.199
3.25	3.125	0.324	17.792	95.991
3.50	3.375	0.061	3.350	99.341
3.75	3.625	0.000	0.000	99.341
4.00	3.875	0.012	0.659	100.000
5.00	4.500	0.000	0.000	100.000

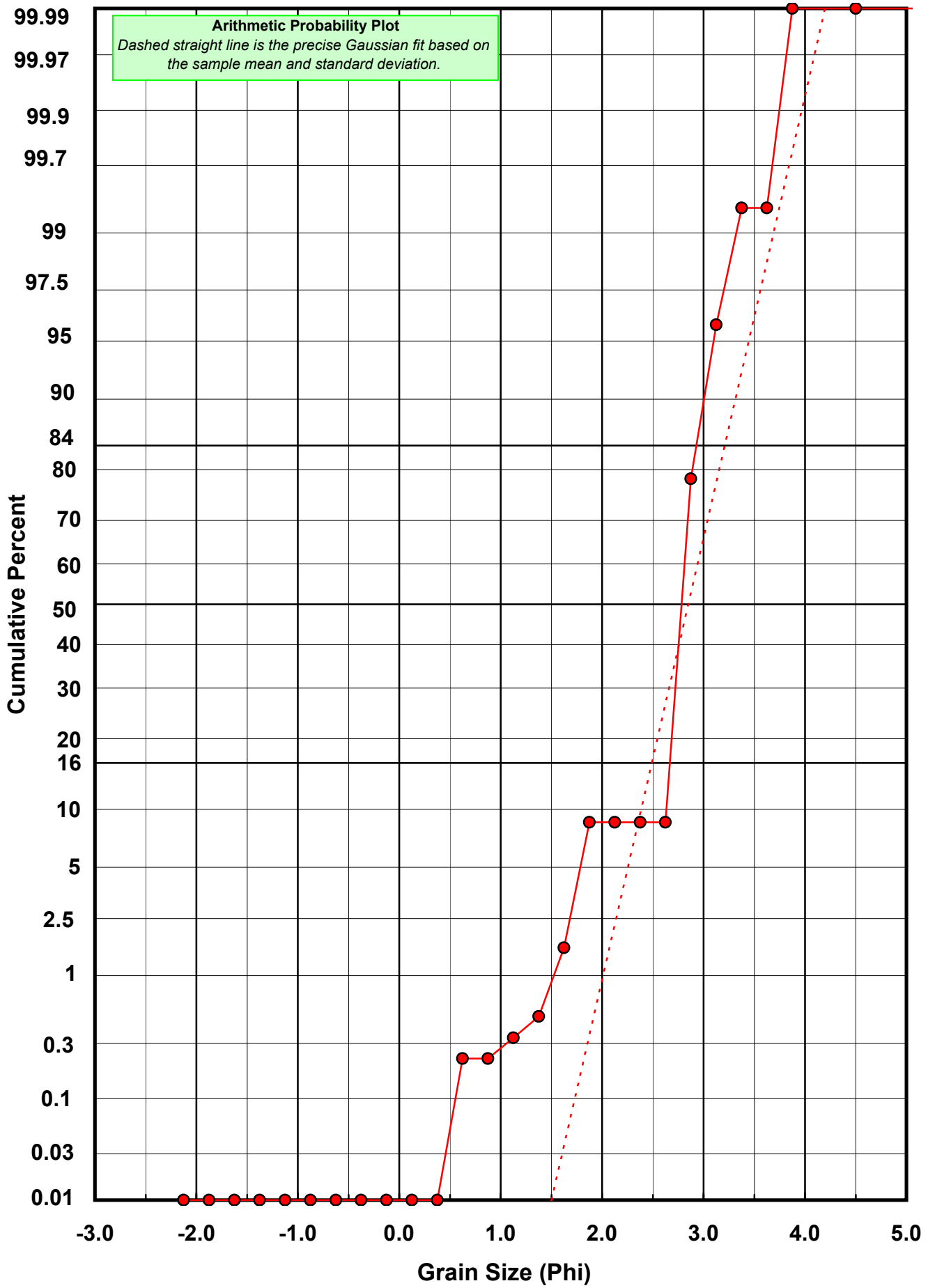
Statistical Results			
Mean:	2.8495	phi	(0.1387 mm)
Standard Dev:	0.3620	phi-units	(0.7781 mm)
Skewness:	-2.2041	dimensionless	
Kurtosis:	9.9079	dimensionless	
5th Moment:	-37.0995	dimensionless	
6th Moment:	185.4388	dimensionless	
RARD *	0.1271	dimensionless	
Median	2.7737	phi	(0.1462 mm)

* 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-31-SS

Total Digested Mass: 45.601 grams

% Silica: 98.4 %

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	0.000	0.000	0.000
0.75	0.625	0.005	0.011	0.011
1.00	0.875	0.006	0.013	0.024
1.25	1.125	0.002	0.004	0.029
1.50	1.375	0.007	0.015	0.044
1.75	1.625	0.030	0.066	0.110
2.00	1.875	0.515	1.129	1.239
2.25	2.125	3.471	7.612	8.851
2.50	2.375	10.707	23.480	32.330
2.75	2.625	17.015	37.313	69.643
3.00	2.875	10.511	23.050	92.693
3.25	3.125	2.731	5.989	98.682
3.50	3.375	0.424	0.930	99.612
3.75	3.625	0.129	0.283	99.895
4.00	3.875	0.048	0.105	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6171	phi	(0.163 mm)
Standard Dev:	0.2876	phi-units	(0.8192 mm)
Skewness:	0.0506	dimensionless	
Kurtosis:	3.9561	dimensionless	
5th Moment:	-0.5323	dimensionless	
6th Moment:	45.5310	dimensionless	
RARD *	0.1099	dimensionless	
Median	2.4934	phi	(0.1776 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)

