

Onshore Grab Sample

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

County: Volusia
Latitude: 29° 17' 03.48"
Longitude: 81° 02' 06.06"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 108.126 grams
Total Fines in Sample 0.790 grams
Total Percent Fines 0.73 %

Dry Sieving Summary

Total Sample Weight 107.506 grams
Total Digested Weight 94.917 grams
Total Carbonate Weight 12.589 grams
Total Silica % 88.29 %
Total Carbonate % 11.71 %
Carbonate/Silica Ratio 0.133

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-12-SS

Total Sample Mass: 107.506 grams

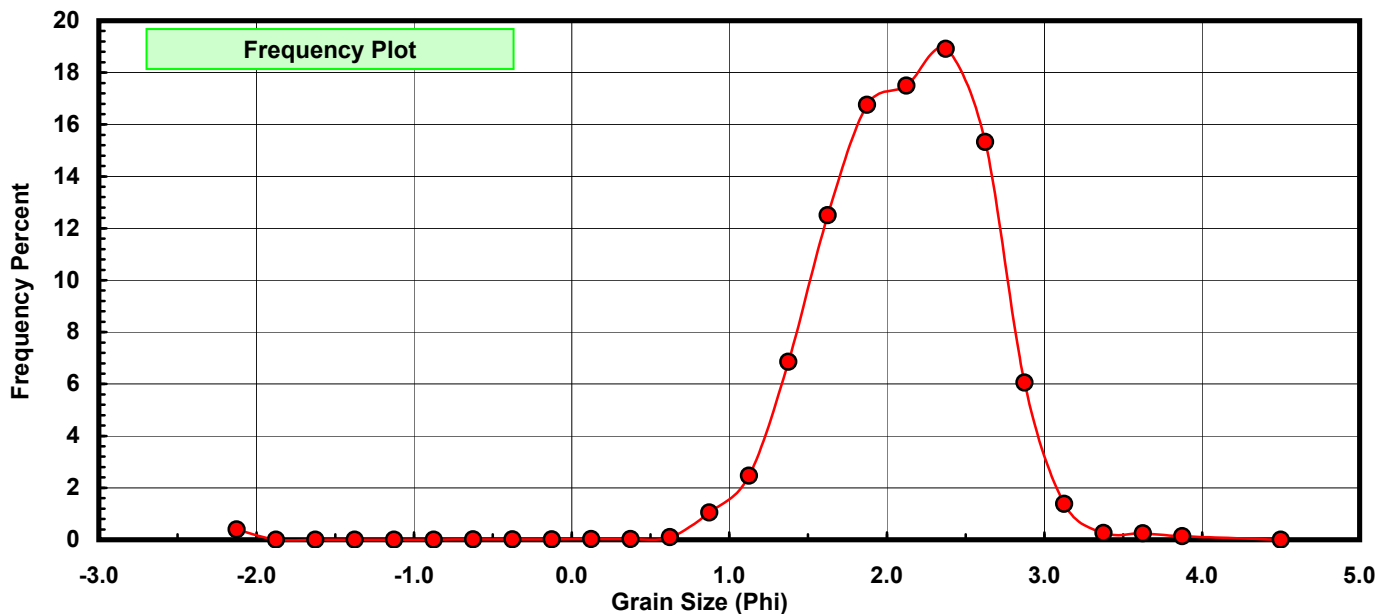
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.425	0.395	0.395
-1.75	-1.875	0.000	0.000	0.395
-1.50	-1.625	0.000	0.000	0.395
-1.25	-1.375	0.000	0.000	0.395
-1.00	-1.125	0.000	0.000	0.395
-0.75	-0.875	0.000	0.000	0.395
-0.50	-0.625	0.010	0.009	0.405
-0.25	-0.375	0.009	0.008	0.413
0.00	-0.125	0.018	0.017	0.430
0.25	0.125	0.020	0.019	0.448
0.50	0.375	0.025	0.023	0.472
0.75	0.625	0.101	0.094	0.566
1.00	0.875	1.123	1.045	1.610
1.25	1.125	2.653	2.468	4.078
1.50	1.375	7.368	6.854	10.931
1.75	1.625	13.438	12.500	23.431
2.00	1.875	18.013	16.755	40.187
2.25	2.125	18.807	17.494	57.681
2.50	2.375	20.333	18.913	76.594
2.75	2.625	16.475	15.325	91.919
3.00	2.875	6.507	6.053	97.971
3.25	3.125	1.482	1.379	99.350
3.50	3.375	0.274	0.255	99.605
3.75	3.625	0.270	0.251	99.856
4.00	3.875	0.152	0.141	99.997
5.00	4.500	0.003	0.003	100.000

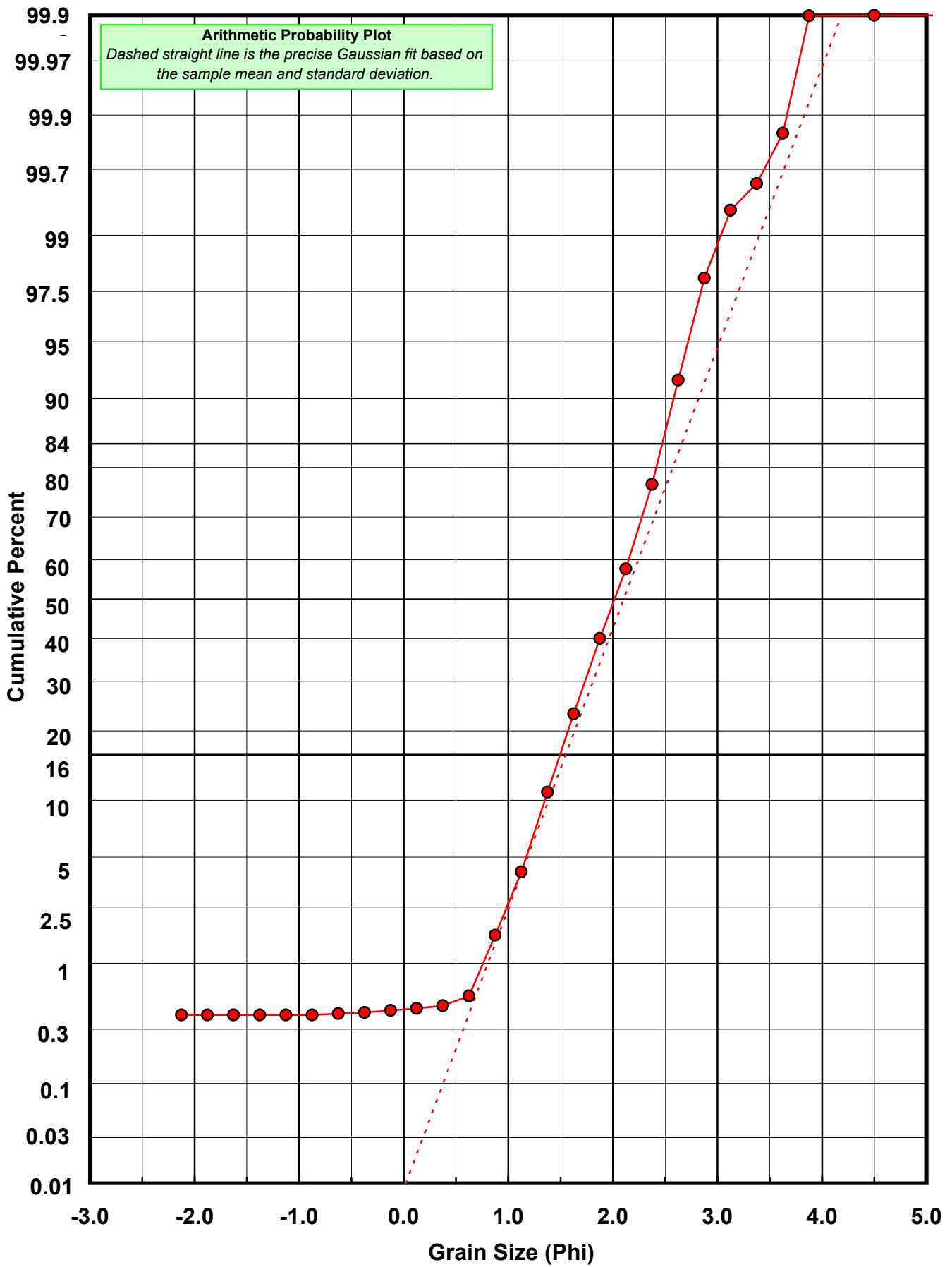
Statistical Results			
Mean:	2.1042	phi	(0.2326 mm)
Standard Dev:	0.5594	phi-units	(0.6786 mm)
Skewness:	-1.7568	dimensionless	
Kurtosis:	14.8795	dimensionless	
5th Moment:	-99.0072	dimensionless	
6th Moment:	755.2529	dimensionless	
RARD *	0.2658	dimensionless	
Median	2.0152	phi	(0.2474 mm)

* 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-SS

Total Carbonate Mass: 14.358 grams

% Carbonate: 11.7 %

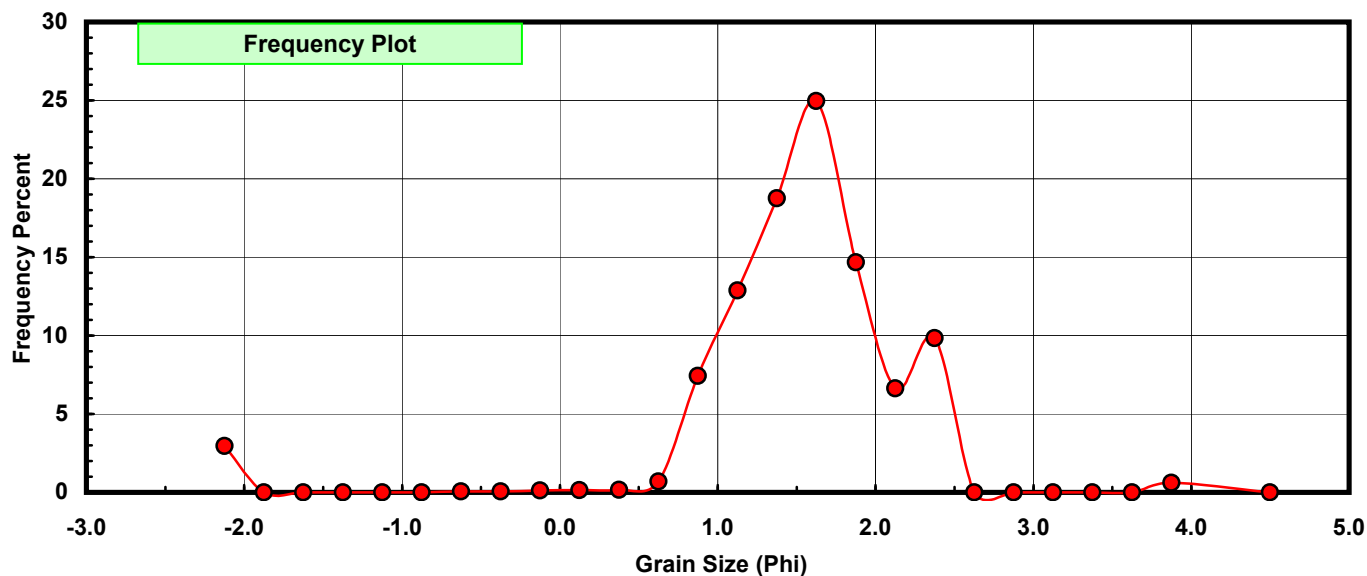
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.425	2.960	2.960
-1.75	-1.875	0.000	0.000	2.960
-1.50	-1.625	0.000	0.000	2.960
-1.25	-1.375	0.000	0.000	2.960
-1.00	-1.125	0.000	0.000	2.960
-0.75	-0.875	0.000	0.000	2.960
-0.50	-0.625	0.010	0.070	3.030
-0.25	-0.375	0.009	0.063	3.092
0.00	-0.125	0.018	0.125	3.218
0.25	0.125	0.020	0.139	3.357
0.50	0.375	0.024	0.167	3.524
0.75	0.625	0.100	0.696	4.221
1.00	0.875	1.068	7.438	11.659
1.25	1.125	1.848	12.871	24.530
1.50	1.375	2.692	18.749	43.279
1.75	1.625	3.585	24.969	68.248
2.00	1.875	2.108	14.682	82.929
2.25	2.125	0.951	6.623	89.553
2.50	2.375	1.412	9.834	99.387
2.75	2.625	0.000	0.000	99.387
3.00	2.875	0.000	0.000	99.387
3.25	3.125	0.000	0.000	99.387
3.50	3.375	0.000	0.000	99.387
3.75	3.625	0.000	0.000	99.387
4.00	3.875	0.088	0.613	100.000
5.00	4.500	0.000	0.000	100.000

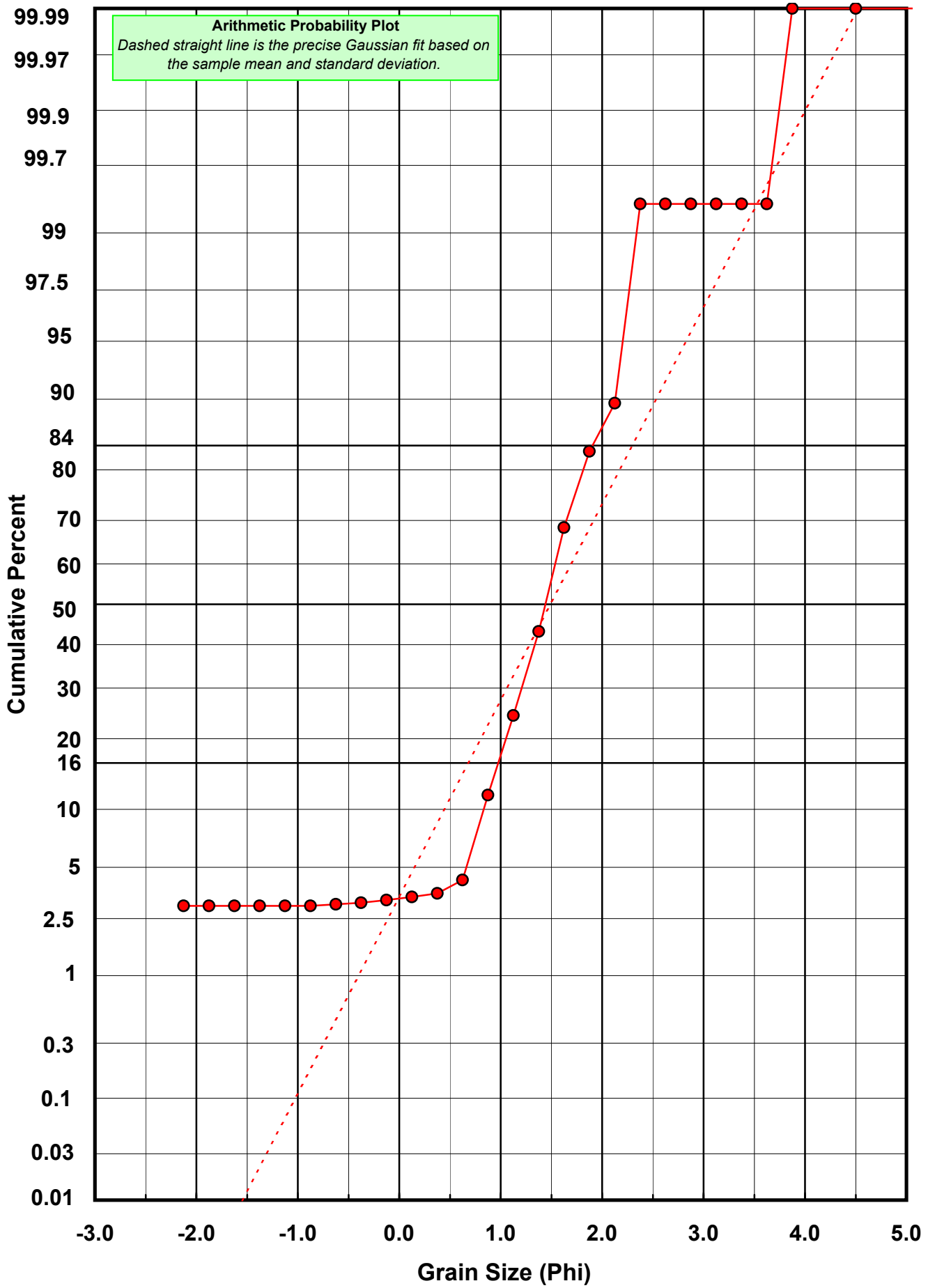
Statistical Results			
Mean:	1.4882	phi	(0.3565 mm)
Standard Dev:	0.8150	phi-units	(0.5684 mm)
Skewness:	-2.5176	dimensionless	
Kurtosis:	13.0910	dimensionless	
5th Moment:	-53.1212	dimensionless	
6th Moment:	246.4301	dimensionless	
RARD *	0.5476	dimensionless	
Median	1.4423	phi	(0.368 mm)

* 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-SS

Total Digested Mass: 94.916 grams

% Silica: 88.3 %

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	0.000	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	0.001	0.001	0.001
0.75	0.625	0.001	0.001	0.002
1.00	0.875	0.055	0.058	0.060
1.25	1.125	0.805	0.848	0.908
1.50	1.375	4.676	4.926	5.835
1.75	1.625	9.853	10.381	16.215
2.00	1.875	15.905	16.757	32.972
2.25	2.125	17.856	18.812	51.785
2.50	2.375	18.921	19.934	71.719
2.75	2.625	17.185	18.105	89.825
3.00	2.875	7.293	7.684	97.508
3.25	3.125	1.658	1.747	99.255
3.50	3.375	0.305	0.321	99.576
3.75	3.625	0.338	0.356	99.933
4.00	3.875	0.064	0.067	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.2110	phi	(0.216 mm)
Standard Dev:	0.4492	phi-units	(0.7324 mm)
Skewness:	-0.0079	dimensionless	
Kurtosis:	2.7338	dimensionless	
5th Moment:	0.8431	dimensionless	
6th Moment:	13.2166	dimensionless	
RARD *	0.2032	dimensionless	
Median	2.1013	phi	(0.2331 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)
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> 1.33	Poor homogeneity (e.g., glacial)

