

Onshore Grab Sample

Sample: VO-46-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? Yes

County: Volusia
Latitude: 28° 54' 03.42"
Longitude: 80° 48' 16.38"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	72.35 grams
Total Fines in Sample	0.256 grams
Total Percent Fines	0.35 %

Dry Sieving Summary

Total Sample Weight	72.154 grams
Total Digested Weight	27.052 grams
Total Carbonate Weight	45.102 grams
Total Silica %	37.49 %
Total Carbonate %	62.51 %
Carbonate/Silica Ratio	1.667

General Comments:

-1.25 phi: Organics Only

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-46-BB

Total Sample Mass: 72.154 grams

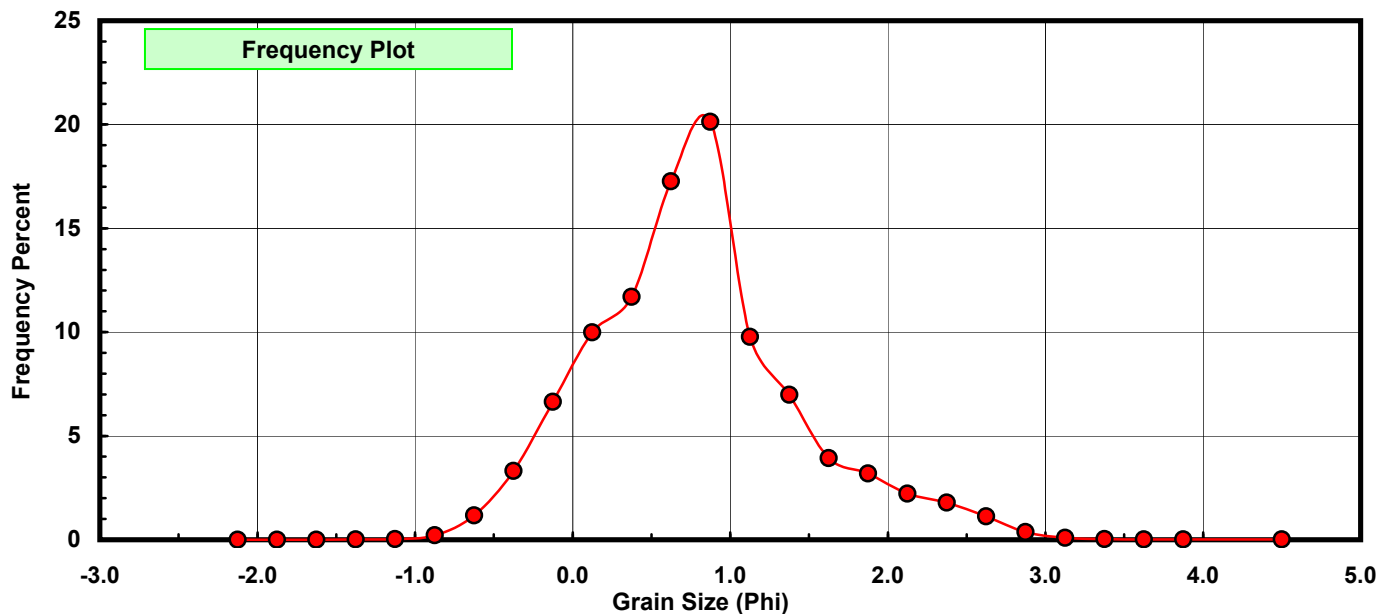
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.006	0.008	0.008
-1.00	-1.125	0.026	0.036	0.044
-0.75	-0.875	0.158	0.219	0.263
-0.50	-0.625	0.840	1.164	1.428
-0.25	-0.375	2.388	3.310	4.737
0.00	-0.125	4.794	6.644	11.381
0.25	0.125	7.209	9.991	21.372
0.50	0.375	8.439	11.696	33.068
0.75	0.625	12.454	17.260	50.328
1.00	0.875	14.521	20.125	70.453
1.25	1.125	7.049	9.769	80.223
1.50	1.375	5.038	6.982	87.205
1.75	1.625	2.833	3.926	91.131
2.00	1.875	2.306	3.196	94.327
2.25	2.125	1.596	2.212	96.539
2.50	2.375	1.294	1.793	98.333
2.75	2.625	0.810	1.123	99.455
3.00	2.875	0.265	0.367	99.823
3.25	3.125	0.067	0.093	99.915
3.50	3.375	0.023	0.032	99.947
3.75	3.625	0.013	0.018	99.965
4.00	3.875	0.011	0.015	99.981
5.00	4.500	0.014	0.019	100.000

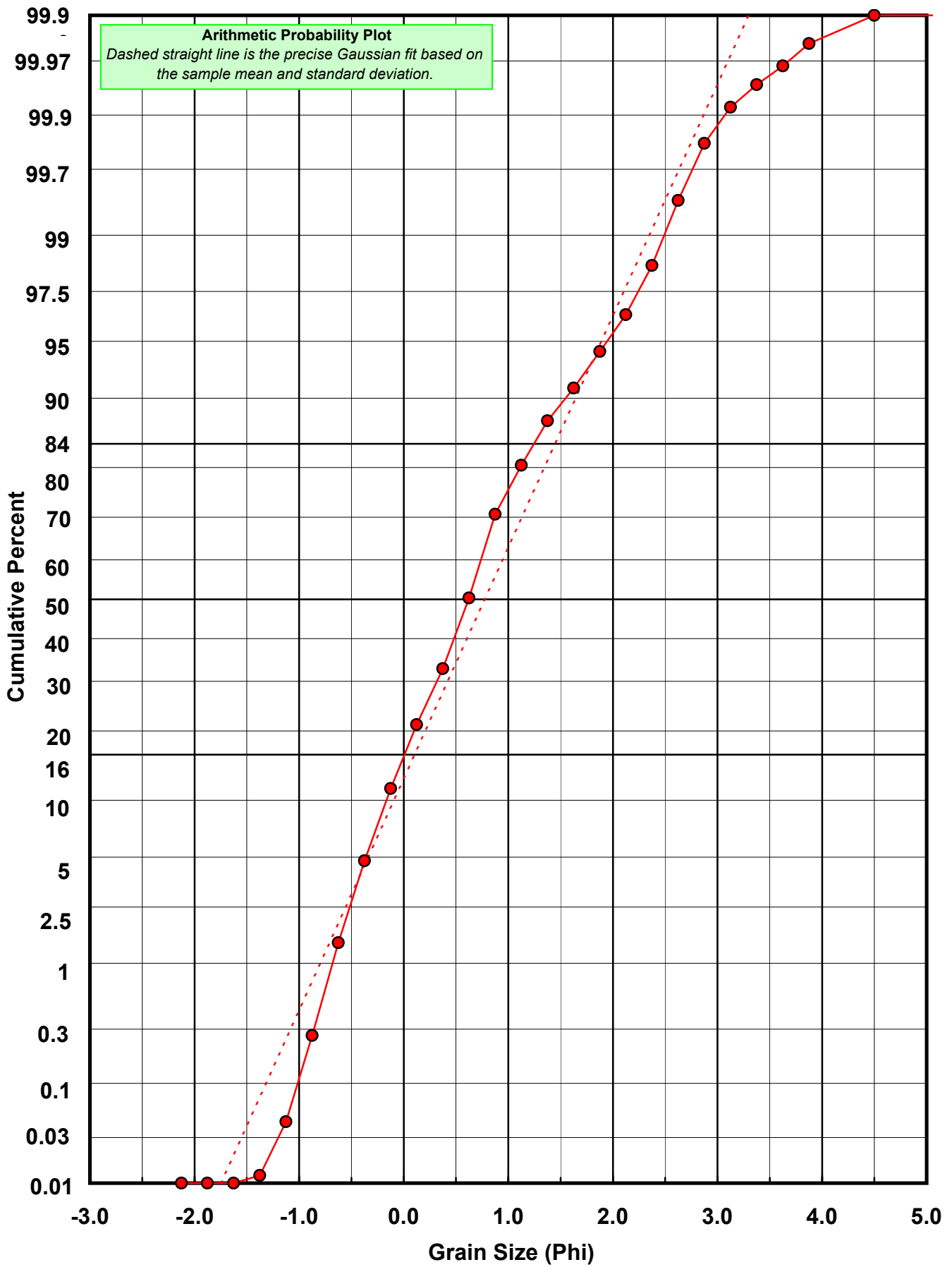
Statistical Results			
Mean:	0.7752	phi	(0.5843 mm)
Standard Dev:	0.6776	phi-units	(0.6252 mm)
Skewness:	0.5730	dimensionless	
Kurtosis:	3.6927	dimensionless	
5th Moment:	6.0684	dimensionless	
6th Moment:	26.7748	dimensionless	
RARD *	0.8740	dimensionless	
Median	0.6202	phi	(0.6506 mm)

* 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-46-BB

Total Carbonate Mass: 45.113 grams

% Carbonate: 62.5 %

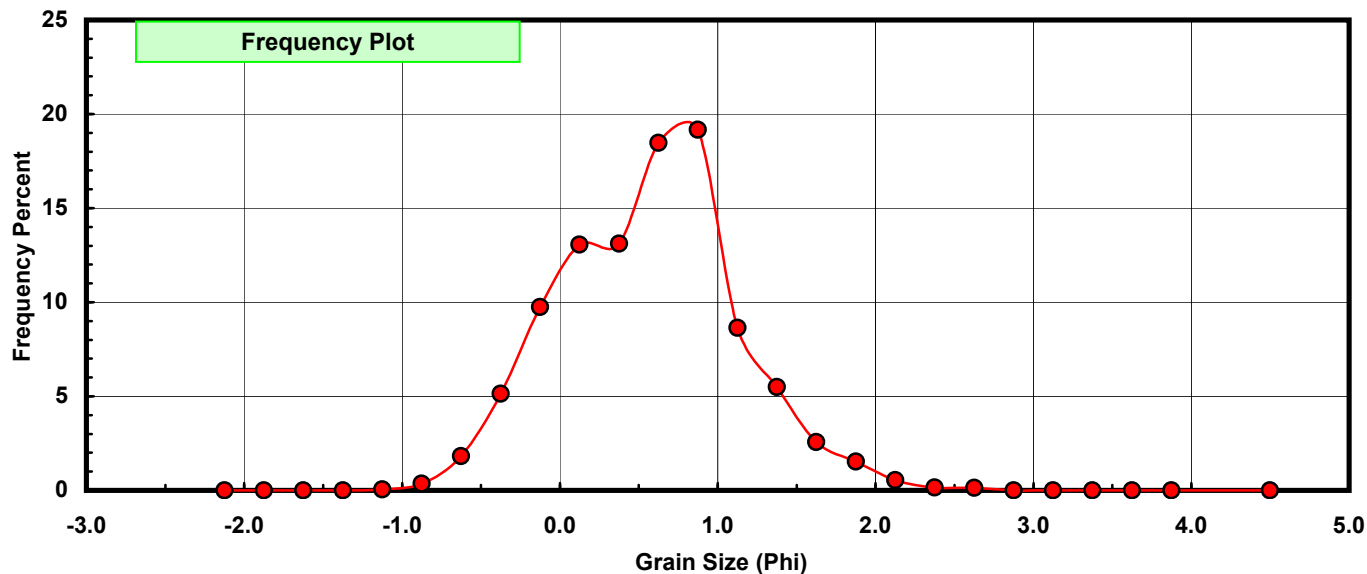
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.026	0.058	0.058
-0.75	-0.875	0.158	0.350	0.408
-0.50	-0.625	0.822	1.822	2.230
-0.25	-0.375	2.317	5.136	7.366
0.00	-0.125	4.395	9.742	17.108
0.25	0.125	5.893	13.063	30.171
0.50	0.375	5.919	13.120	43.291
0.75	0.625	8.329	18.463	61.754
1.00	0.875	8.650	19.174	80.928
1.25	1.125	3.898	8.641	89.568
1.50	1.375	2.477	5.491	95.059
1.75	1.625	1.159	2.569	97.628
2.00	1.875	0.688	1.525	99.153
2.25	2.125	0.246	0.545	99.699
2.50	2.375	0.067	0.149	99.847
2.75	2.625	0.064	0.142	99.989
3.00	2.875	0.003	0.007	99.996
3.25	3.125	0.002	0.004	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

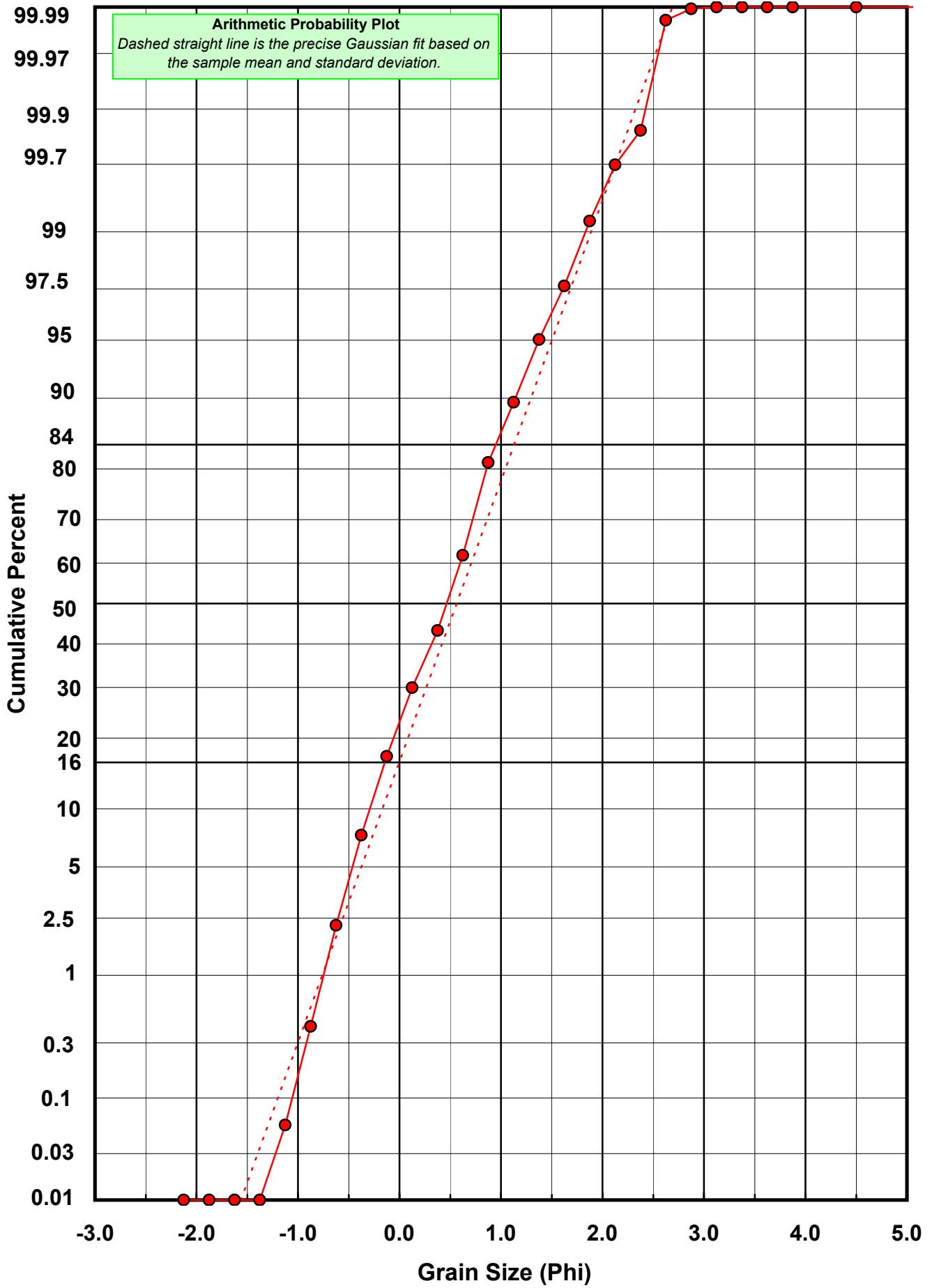
Statistical Results			
Mean:	0.5644	phi	(0.6763 mm)
Standard Dev:	0.5708	phi-units	(0.6733 mm)
Skewness:	0.1564	dimensionless	
Kurtosis:	3.0108	dimensionless	
5th Moment:	2.2206	dimensionless	
6th Moment:	15.8978	dimensionless	
RARD *	1.0113	dimensionless	
Median	0.4658	phi	(0.724 mm)

* 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-46-BB

Total Digested Mass: 27.039 grams

% Silica: 37.5 %

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	0.010	0.037	0.037
-1.00	-1.125	0.000	0.000	0.037
-0.75	-0.875	0.000	0.000	0.037
-0.50	-0.625	0.018	0.067	0.104
-0.25	-0.375	0.071	0.263	0.366
0.00	-0.125	0.399	1.476	1.842
0.25	0.125	1.316	4.867	6.709
0.50	0.375	2.520	9.320	16.029
0.75	0.625	4.125	15.256	31.284
1.00	0.875	5.871	21.713	52.998
1.25	1.125	3.151	11.654	64.651
1.50	1.375	2.561	9.472	74.123
1.75	1.625	1.674	6.191	80.314
2.00	1.875	1.618	5.984	86.298
2.25	2.125	1.350	4.993	91.290
2.50	2.375	1.227	4.538	95.828
2.75	2.625	0.746	2.759	98.587
3.00	2.875	0.262	0.969	99.556
3.25	3.125	0.065	0.240	99.797
3.50	3.375	0.025	0.092	99.889
3.75	3.625	0.016	0.059	99.948
4.00	3.875	0.014	0.052	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.1257	phi	(0.4583 mm)
Standard Dev:	0.7028	phi-units	(0.6144 mm)
Skewness:	0.6263	dimensionless	
Kurtosis:	2.9253	dimensionless	
5th Moment:	3.9514	dimensionless	
6th Moment:	14.9077	dimensionless	
RARD *	0.6243	dimensionless	
Median	0.8405	phi	(0.5585 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	
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