

Onshore Grab Sample

Sample: VO-56-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? Yes

County: Volusia
Latitude: 28° 48' 13.38"
Longitude: 80° 44' 29.28"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 70.505 grams
Total Fines in Sample 0.195 grams
Total Percent Fines 0.28 %

Dry Sieving Summary

Total Sample Weight 70.373 grams
Total Digested Weight 34.118 grams
Total Carbonate Weight 36.255 grams
Total Silica % 48.48 %
Total Carbonate % 51.52 %
Carbonate/Silica Ratio 1.063

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-56-BB

Total Sample Mass: 70.373 grams

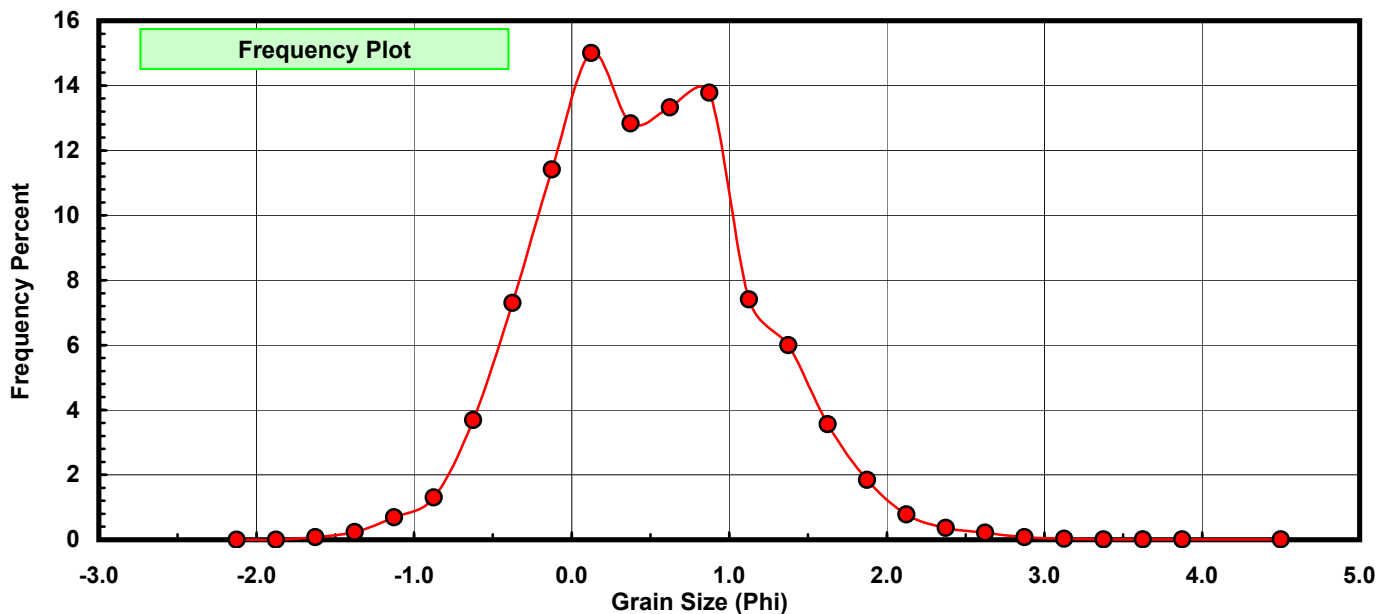
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.059	0.084	0.084
-1.25	-1.375	0.164	0.233	0.317
-1.00	-1.125	0.488	0.693	1.010
-0.75	-0.875	0.918	1.304	2.315
-0.50	-0.625	2.595	3.687	6.002
-0.25	-0.375	5.135	7.297	13.299
0.00	-0.125	8.034	11.416	24.715
0.25	0.125	10.556	15.000	39.716
0.50	0.375	9.033	12.836	52.551
0.75	0.625	9.379	13.328	65.879
1.00	0.875	9.701	13.785	79.664
1.25	1.125	5.214	7.409	87.073
1.50	1.375	4.223	6.001	93.074
1.75	1.625	2.508	3.564	96.638
2.00	1.875	1.300	1.847	98.485
2.25	2.125	0.548	0.779	99.264
2.50	2.375	0.258	0.367	99.631
2.75	2.625	0.154	0.219	99.849
3.00	2.875	0.058	0.082	99.932
3.25	3.125	0.021	0.030	99.962
3.50	3.375	0.008	0.011	99.973
3.75	3.625	0.004	0.006	99.979
4.00	3.875	0.007	0.010	99.989
5.00	4.500	0.008	0.011	100.000

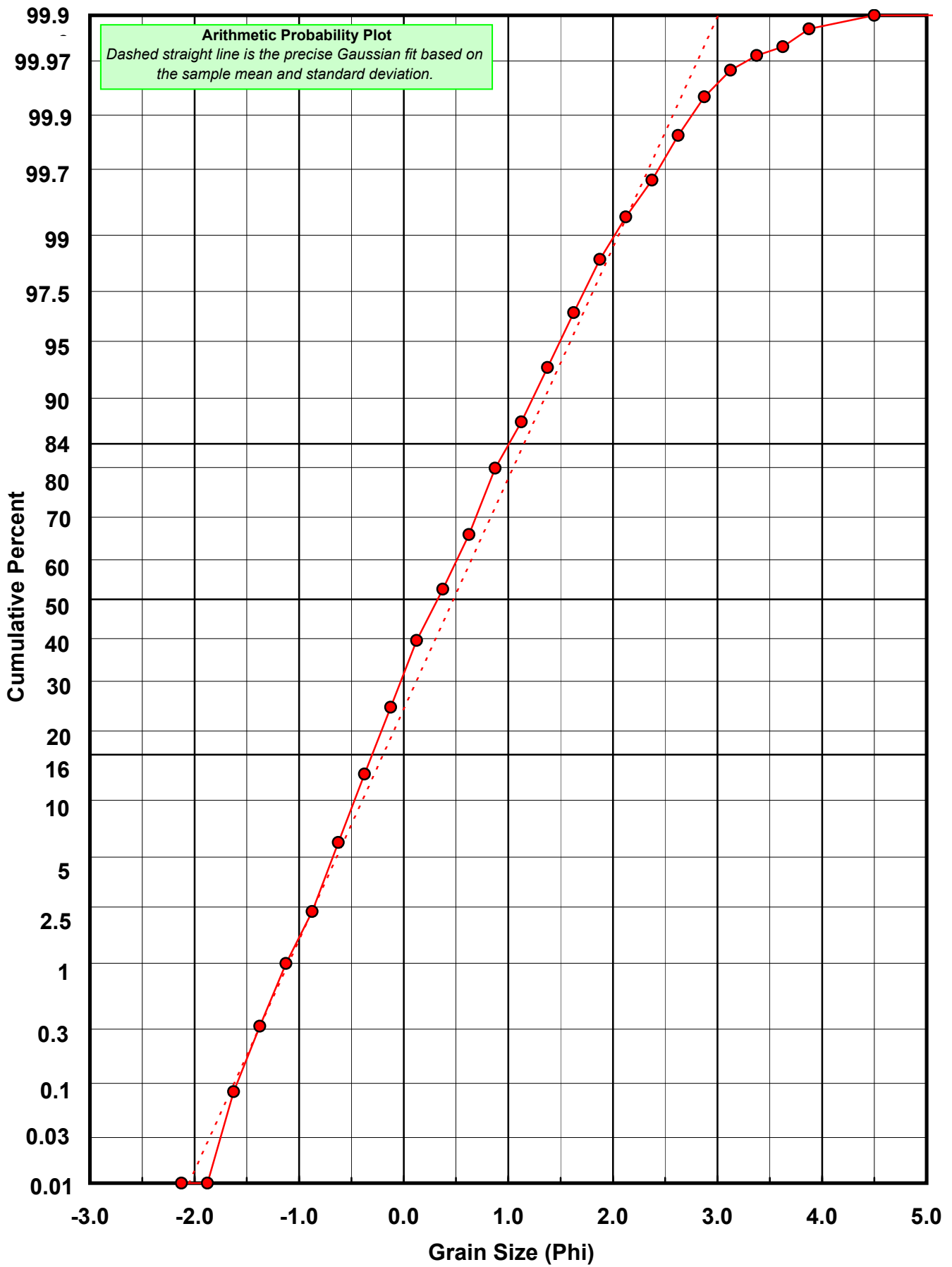
Statistical Results			
Mean:	0.4765	phi	(0.7187 mm)
Standard Dev:	0.6798	phi-units	(0.6243 mm)
Skewness:	0.2671	dimensionless	
Kurtosis:	3.2383	dimensionless	
5th Moment:	3.4337	dimensionless	
6th Moment:	23.4530	dimensionless	
RARD *	1.4264	dimensionless	
Median	0.3253	phi	(0.7981 mm)

* 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-56-BB

Total Carbonate Mass: 36.297 grams

% Carbonate: 51.5 %

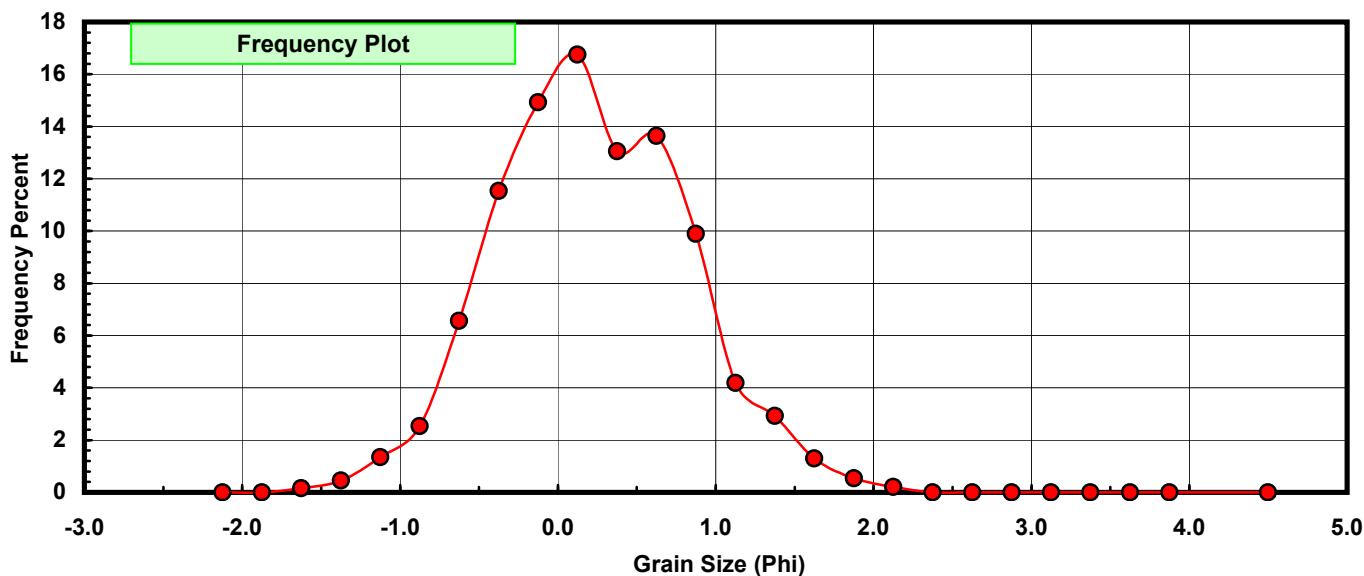
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.059	0.163	0.163
-1.25	-1.375	0.164	0.452	0.614
-1.00	-1.125	0.488	1.344	1.959
-0.75	-0.875	0.918	2.529	4.488
-0.50	-0.625	2.384	6.568	11.056
-0.25	-0.375	4.187	11.535	22.591
0.00	-0.125	5.420	14.932	37.524
0.25	0.125	6.079	16.748	54.272
0.50	0.375	4.738	13.053	67.325
0.75	0.625	4.949	13.635	80.960
1.00	0.875	3.590	9.891	90.850
1.25	1.125	1.518	4.182	95.033
1.50	1.375	1.061	2.923	97.956
1.75	1.625	0.470	1.295	99.251
2.00	1.875	0.196	0.540	99.791
2.25	2.125	0.076	0.209	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

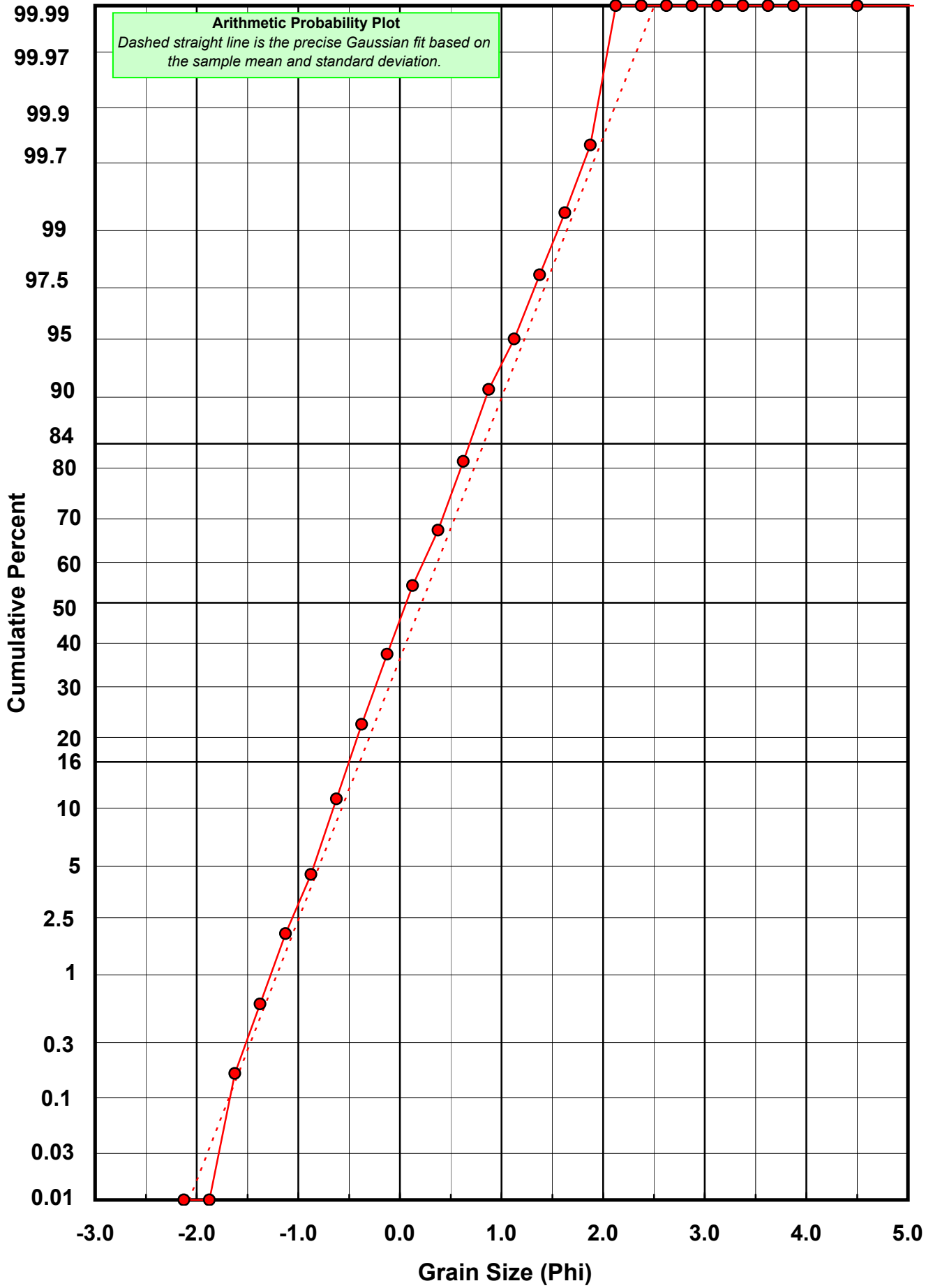
Statistical Results			
Mean:	0.2154	phi	(0.8613 mm)
Standard Dev:	0.6150	phi-units	(0.6529 mm)
Skewness:	0.1266	dimensionless	
Kurtosis:	2.8722	dimensionless	
5th Moment:	0.9408	dimensionless	
6th Moment:	13.3892	dimensionless	
RARD *	2.8549	dimensionless	
Median	0.0612	phi	(0.9584 mm)

* 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-56-BB

Total Digested Mass: 34.110 grams

% Silica: 48.5 %

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	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.211	0.619	0.619
-0.25	-0.375	0.948	2.779	3.398
0.00	-0.125	2.614	7.663	11.061
0.25	0.125	4.477	13.125	24.186
0.50	0.375	4.295	12.592	36.778
0.75	0.625	4.430	12.987	49.765
1.00	0.875	6.111	17.916	67.681
1.25	1.125	3.696	10.836	78.517
1.50	1.375	3.162	9.270	87.787
1.75	1.625	2.038	5.975	93.761
2.00	1.875	1.104	3.237	96.998
2.25	2.125	0.472	1.384	98.382
2.50	2.375	0.261	0.765	99.147
2.75	2.625	0.166	0.487	99.634
3.00	2.875	0.066	0.193	99.827
3.25	3.125	0.026	0.076	99.903
3.50	3.375	0.015	0.044	99.947
3.75	3.625	0.009	0.026	99.974
4.00	3.875	0.009	0.026	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.7566	phi	(0.5919 mm)
Standard Dev:	0.6433	phi-units	(0.6402 mm)
Skewness:	0.4367	dimensionless	
Kurtosis:	3.1569	dimensionless	
5th Moment:	5.0685	dimensionless	
6th Moment:	22.0356	dimensionless	
RARD *	0.8503	dimensionless	
Median	0.6283	phi	(0.647 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)

