

Onshore Grab Sample

Sample: VO-52-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? Yes

County: Volusia
Latitude: 28° 50' 31.32"
Longitude: 80° 45' 57.54"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 83.744 grams
Total Fines in Sample 0.190 grams
Total Percent Fines 0.23 %

Dry Sieving Summary

Total Sample Weight 83.622 grams
Total Digested Weight 37.869 grams
Total Carbonate Weight 45.753 grams
Total Silica % 45.29 %
Total Carbonate % 54.71 %
Carbonate/Silica Ratio 1.208

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-52-BB

Total Sample Mass: 83.622 grams

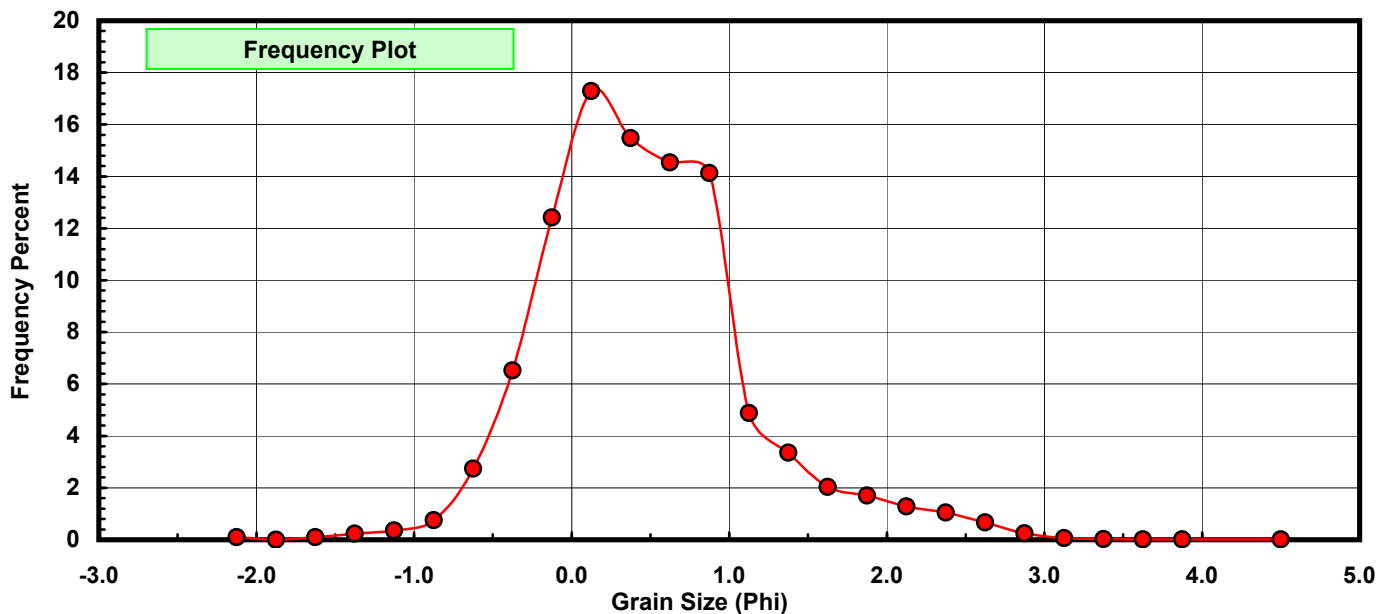
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.084	0.100	0.100
-1.75	-1.875	0.000	0.000	0.100
-1.50	-1.625	0.086	0.103	0.203
-1.25	-1.375	0.194	0.232	0.435
-1.00	-1.125	0.304	0.364	0.799
-0.75	-0.875	0.630	0.753	1.552
-0.50	-0.625	2.287	2.735	4.287
-0.25	-0.375	5.455	6.523	10.811
0.00	-0.125	10.383	12.417	23.227
0.25	0.125	14.453	17.284	40.511
0.50	0.375	12.937	15.471	55.982
0.75	0.625	12.159	14.540	70.522
1.00	0.875	11.815	14.129	84.651
1.25	1.125	4.087	4.887	89.539
1.50	1.375	2.805	3.354	92.893
1.75	1.625	1.706	2.040	94.933
2.00	1.875	1.418	1.696	96.629
2.25	2.125	1.075	1.286	97.914
2.50	2.375	0.881	1.054	98.968
2.75	2.625	0.555	0.664	99.632
3.00	2.875	0.209	0.250	99.882
3.25	3.125	0.055	0.066	99.947
3.50	3.375	0.017	0.020	99.968
3.75	3.625	0.012	0.014	99.982
4.00	3.875	0.009	0.011	99.993
5.00	4.500	0.006	0.007	100.000

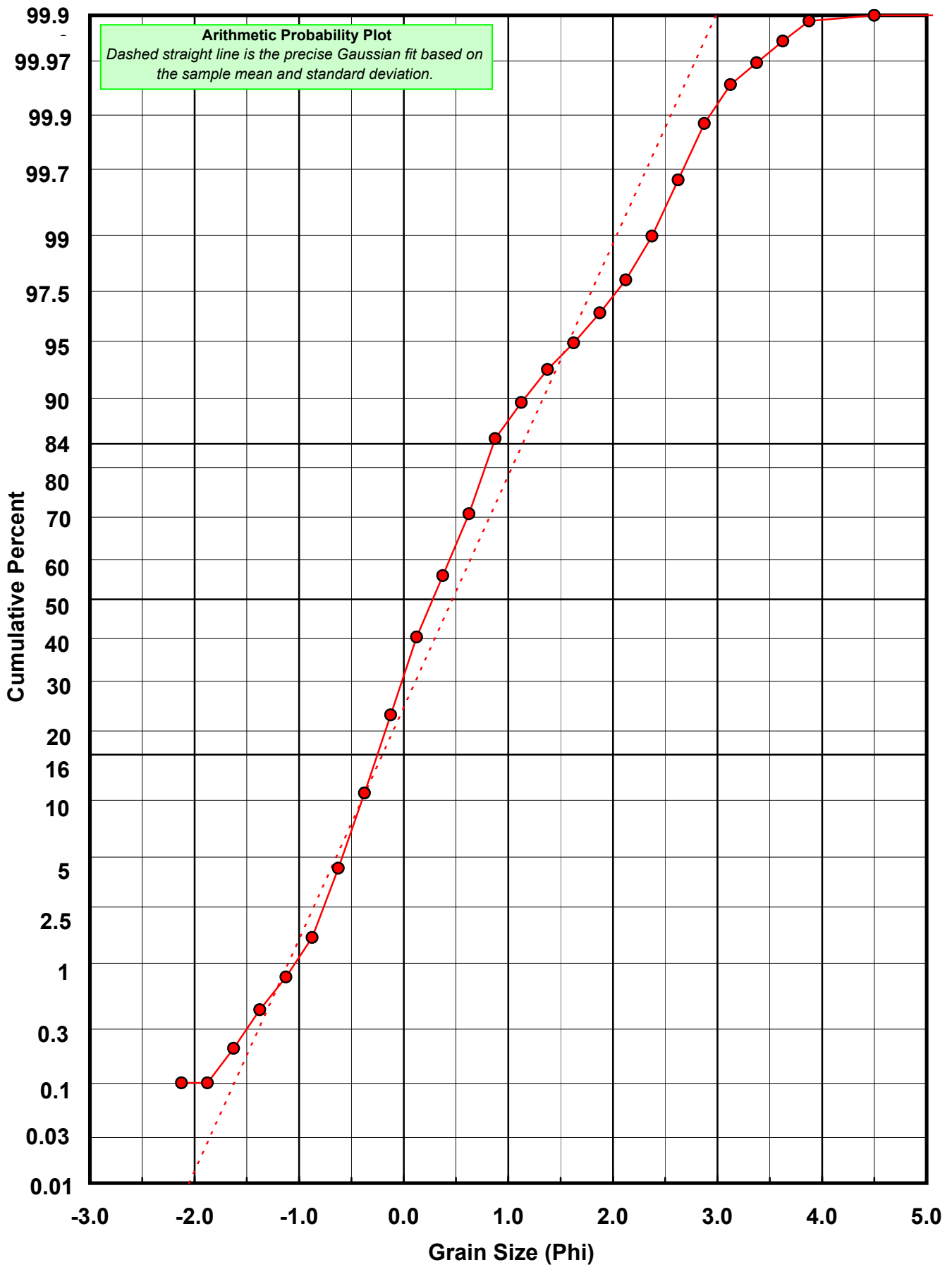
Statistical Results			
Mean:	0.4664	phi	(0.7238 mm)
Standard Dev:	0.6764	phi-units	(0.6257 mm)
Skewness:	0.6921	dimensionless	
Kurtosis:	4.4895	dimensionless	
5th Moment:	7.5114	dimensionless	
6th Moment:	39.9043	dimensionless	
RARD *	1.4503	dimensionless	
Median	0.2783	phi	(0.8245 mm)

* 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-52-BB

Total Carbonate Mass: 45.801 grams

% Carbonate: 54.7 %

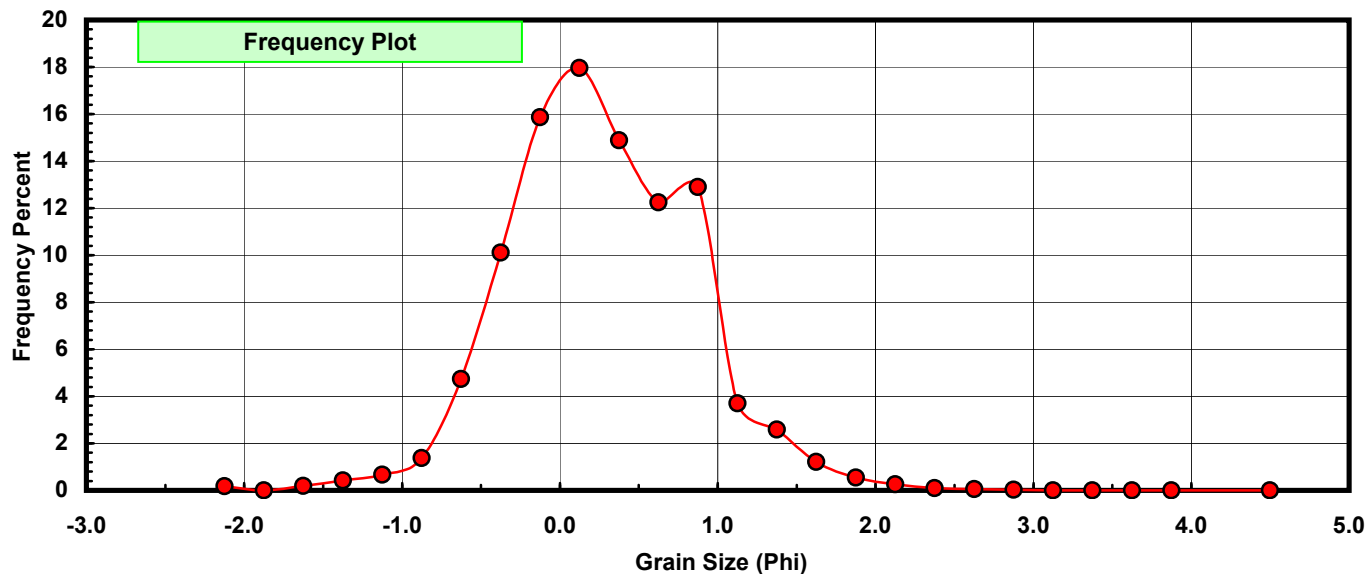
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.084	0.183	0.183
-1.75	-1.875	0.000	0.000	0.183
-1.50	-1.625	0.086	0.188	0.371
-1.25	-1.375	0.194	0.424	0.795
-1.00	-1.125	0.304	0.664	1.458
-0.75	-0.875	0.630	1.376	2.834
-0.50	-0.625	2.168	4.734	7.568
-0.25	-0.375	4.631	10.111	17.679
0.00	-0.125	7.263	15.858	33.536
0.25	0.125	8.226	17.960	51.497
0.50	0.375	6.817	14.884	66.381
0.75	0.625	5.609	12.246	78.627
1.00	0.875	5.910	12.904	91.531
1.25	1.125	1.692	3.694	95.225
1.50	1.375	1.183	2.583	97.808
1.75	1.625	0.557	1.216	99.024
2.00	1.875	0.249	0.544	99.568
2.25	2.125	0.121	0.264	99.832
2.50	2.375	0.045	0.098	99.930
2.75	2.625	0.022	0.048	99.978
3.00	2.875	0.010	0.022	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

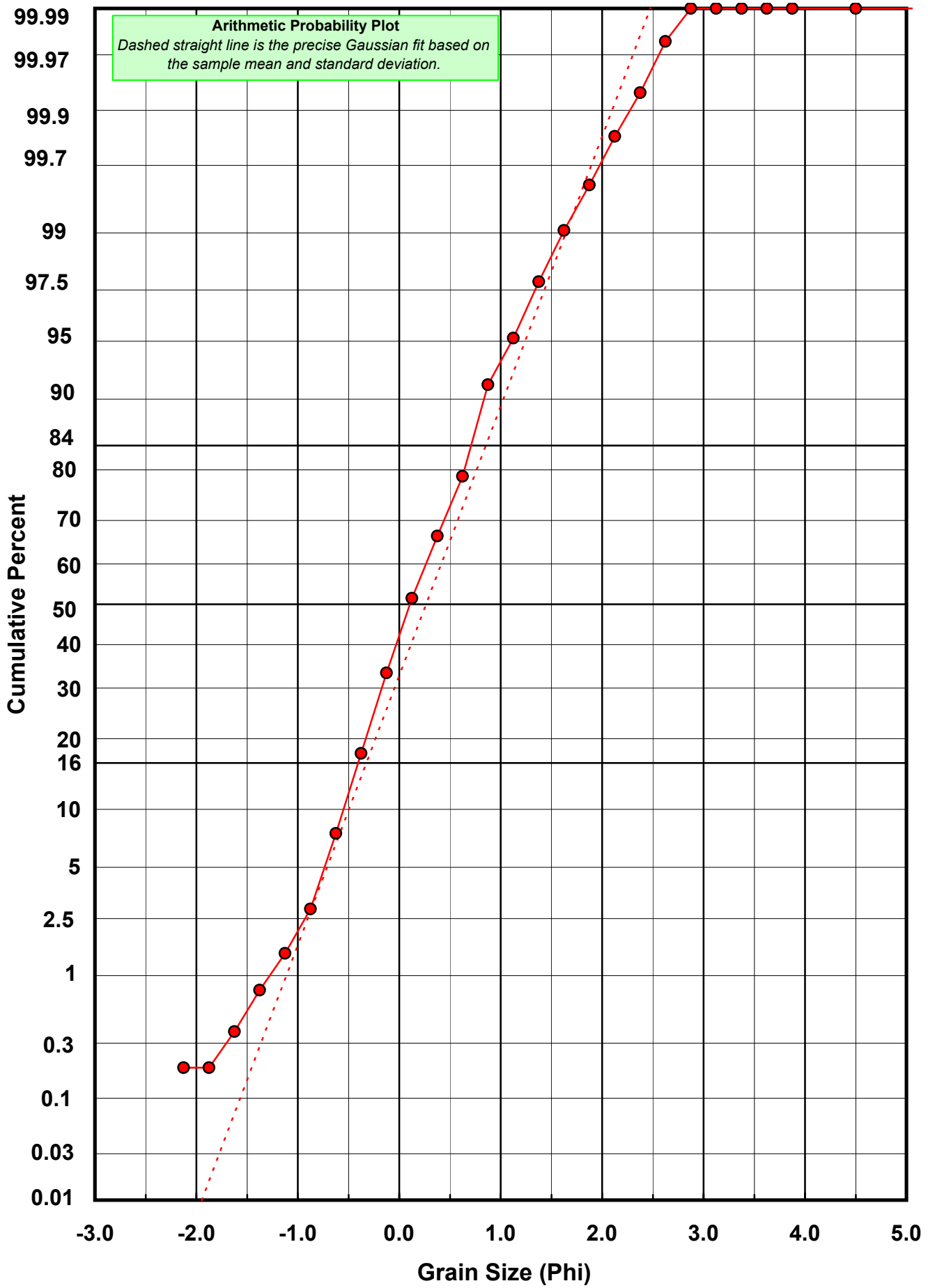
Statistical Results			
Mean:	0.2650	phi	(0.8322 mm)
Standard Dev:	0.5938	phi-units	(0.6626 mm)
Skewness:	0.0946	dimensionless	
Kurtosis:	3.6709	dimensionless	
5th Moment:	0.1562	dimensionless	
6th Moment:	28.1856	dimensionless	
RARD *	2.2410	dimensionless	
Median	0.1042	phi	(0.9303 mm)

* 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-52-BB

Total Digested Mass: 37.864 grams

% Silica: 45.3 %

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	0.119	0.314	0.314
-0.25	-0.375	0.824	2.176	2.490
0.00	-0.125	3.120	8.240	10.731
0.25	0.125	6.227	16.446	27.176
0.50	0.375	6.120	16.163	43.339
0.75	0.625	6.550	17.299	60.638
1.00	0.875	5.905	15.595	76.233
1.25	1.125	2.395	6.325	82.559
1.50	1.375	1.622	4.284	86.842
1.75	1.625	1.149	3.035	89.877
2.00	1.875	1.169	3.087	92.964
2.25	2.125	0.954	2.520	95.484
2.50	2.375	0.836	2.208	97.692
2.75	2.625	0.533	1.408	99.099
3.00	2.875	0.199	0.526	99.625
3.25	3.125	0.064	0.169	99.794
3.50	3.375	0.022	0.058	99.852
3.75	3.625	0.036	0.095	99.947
4.00	3.875	0.020	0.053	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.7134	phi	(0.6099 mm)
Standard Dev:	0.7029	phi-units	(0.6143 mm)
Skewness:	1.0745	dimensionless	
Kurtosis:	4.0779	dimensionless	
5th Moment:	9.6222	dimensionless	
6th Moment:	31.6909	dimensionless	
RARD *	0.9853	dimensionless	
Median	0.4713	phi	(0.7213 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)

