

Onshore Grab Sample

Sample: VO-53-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? Yes

County: Volusia
Latitude: 28° 49' 57.48"
Longitude: 80° 45' 35.88"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 71.838 grams
Total Fines in Sample 0.584 grams
Total Percent Fines 0.81 %

Dry Sieving Summary

Total Sample Weight 71.211 grams
Total Digested Weight 35.675 grams
Total Carbonate Weight 35.536 grams
Total Silica % 50.10 %
Total Carbonate % 49.90 %
Carbonate/Silica Ratio 0.996

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-53-SS

Total Sample Mass: 71.211 grams

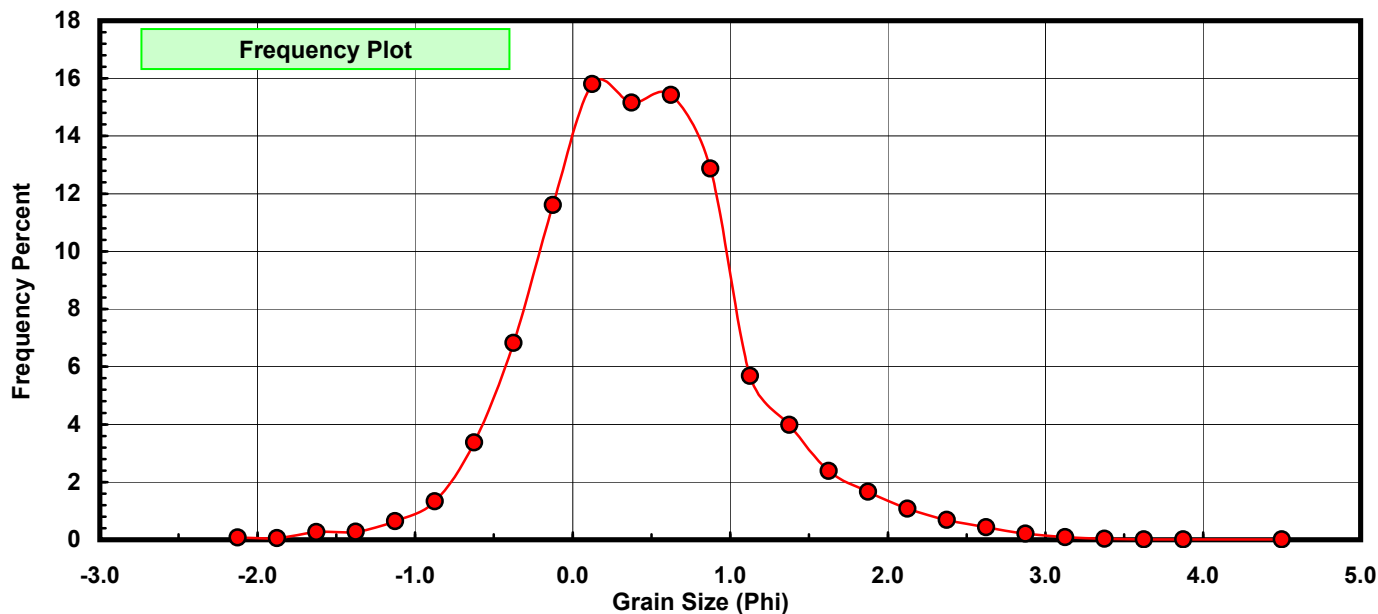
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.052	0.073	0.073
-1.75	-1.875	0.038	0.053	0.126
-1.50	-1.625	0.192	0.270	0.396
-1.25	-1.375	0.201	0.282	0.678
-1.00	-1.125	0.459	0.645	1.323
-0.75	-0.875	0.949	1.333	2.655
-0.50	-0.625	2.406	3.379	6.034
-0.25	-0.375	4.863	6.829	12.863
0.00	-0.125	8.267	11.609	24.472
0.25	0.125	11.252	15.801	40.273
0.50	0.375	10.794	15.158	55.431
0.75	0.625	10.981	15.420	70.851
1.00	0.875	9.167	12.873	83.724
1.25	1.125	4.047	5.683	89.408
1.50	1.375	2.839	3.987	93.394
1.75	1.625	1.703	2.391	95.786
2.00	1.875	1.185	1.664	97.450
2.25	2.125	0.768	1.078	98.528
2.50	2.375	0.487	0.684	99.212
2.75	2.625	0.309	0.434	99.646
3.00	2.875	0.152	0.213	99.860
3.25	3.125	0.060	0.084	99.944
3.50	3.375	0.020	0.028	99.972
3.75	3.625	0.008	0.011	99.983
4.00	3.875	0.007	0.010	99.993
5.00	4.500	0.005	0.007	100.000

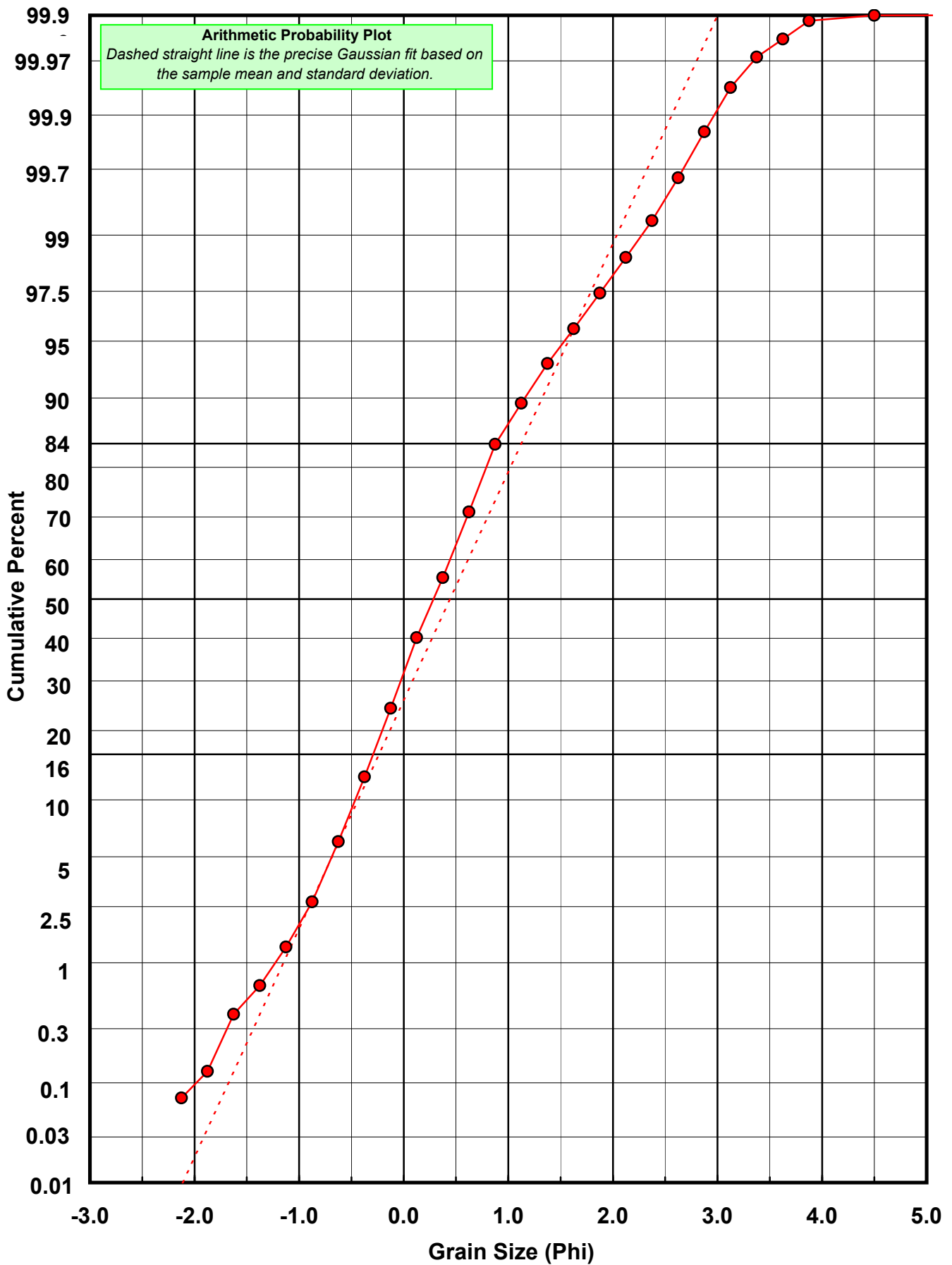
Statistical Results			
Mean:	0.4448	phi	(0.7347 mm)
Standard Dev:	0.6867	phi-units	(0.6213 mm)
Skewness:	0.4365	dimensionless	
Kurtosis:	4.1997	dimensionless	
5th Moment:	5.1857	dimensionless	
6th Moment:	35.5126	dimensionless	
RARD *	1.5436	dimensionless	
Median	0.2854	phi	(0.8205 mm)

* 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-53-SS

Total Carbonate Mass: 35.544 grams

% Carbonate: 49.9 %

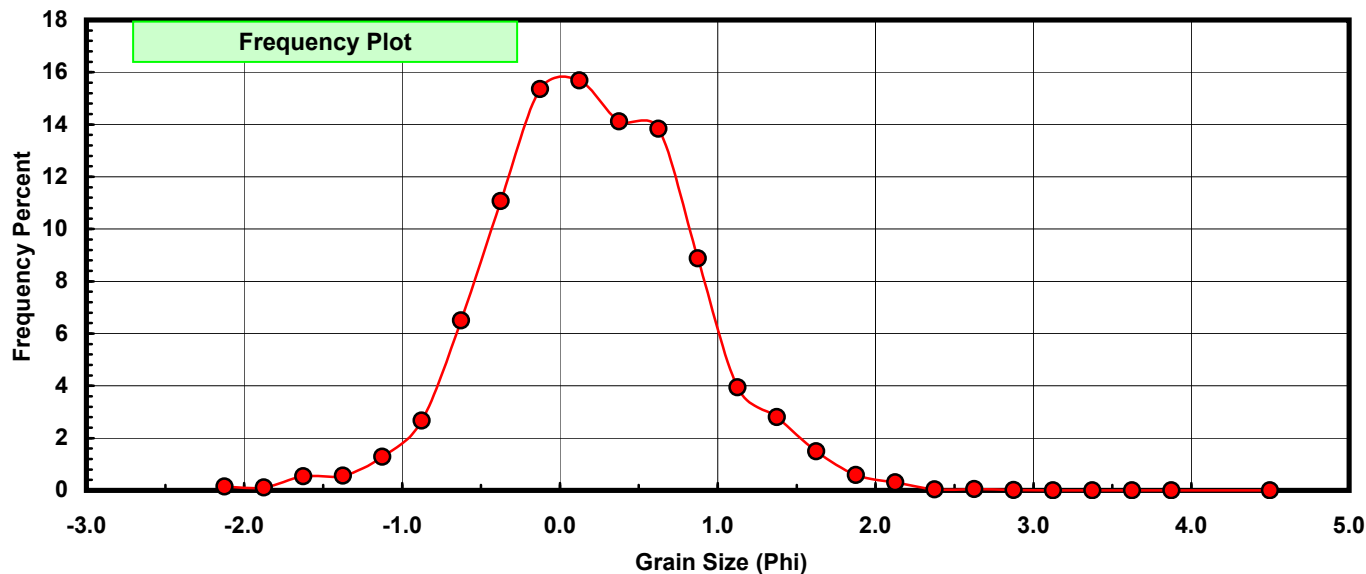
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.052	0.146	0.146
-1.75	-1.875	0.038	0.107	0.253
-1.50	-1.625	0.192	0.540	0.793
-1.25	-1.375	0.201	0.565	1.359
-1.00	-1.125	0.459	1.291	2.650
-0.75	-0.875	0.949	2.670	5.320
-0.50	-0.625	2.312	6.505	11.825
-0.25	-0.375	3.935	11.071	22.896
0.00	-0.125	5.458	15.356	38.251
0.25	0.125	5.574	15.682	53.933
0.50	0.375	5.017	14.115	68.048
0.75	0.625	4.916	13.831	81.879
1.00	0.875	3.155	8.876	90.755
1.25	1.125	1.403	3.947	94.702
1.50	1.375	0.995	2.799	97.502
1.75	1.625	0.530	1.491	98.993
2.00	1.875	0.211	0.594	99.586
2.25	2.125	0.109	0.307	99.893
2.50	2.375	0.015	0.042	99.935
2.75	2.625	0.018	0.051	99.986
3.00	2.875	0.004	0.011	99.997
3.25	3.125	0.001	0.003	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

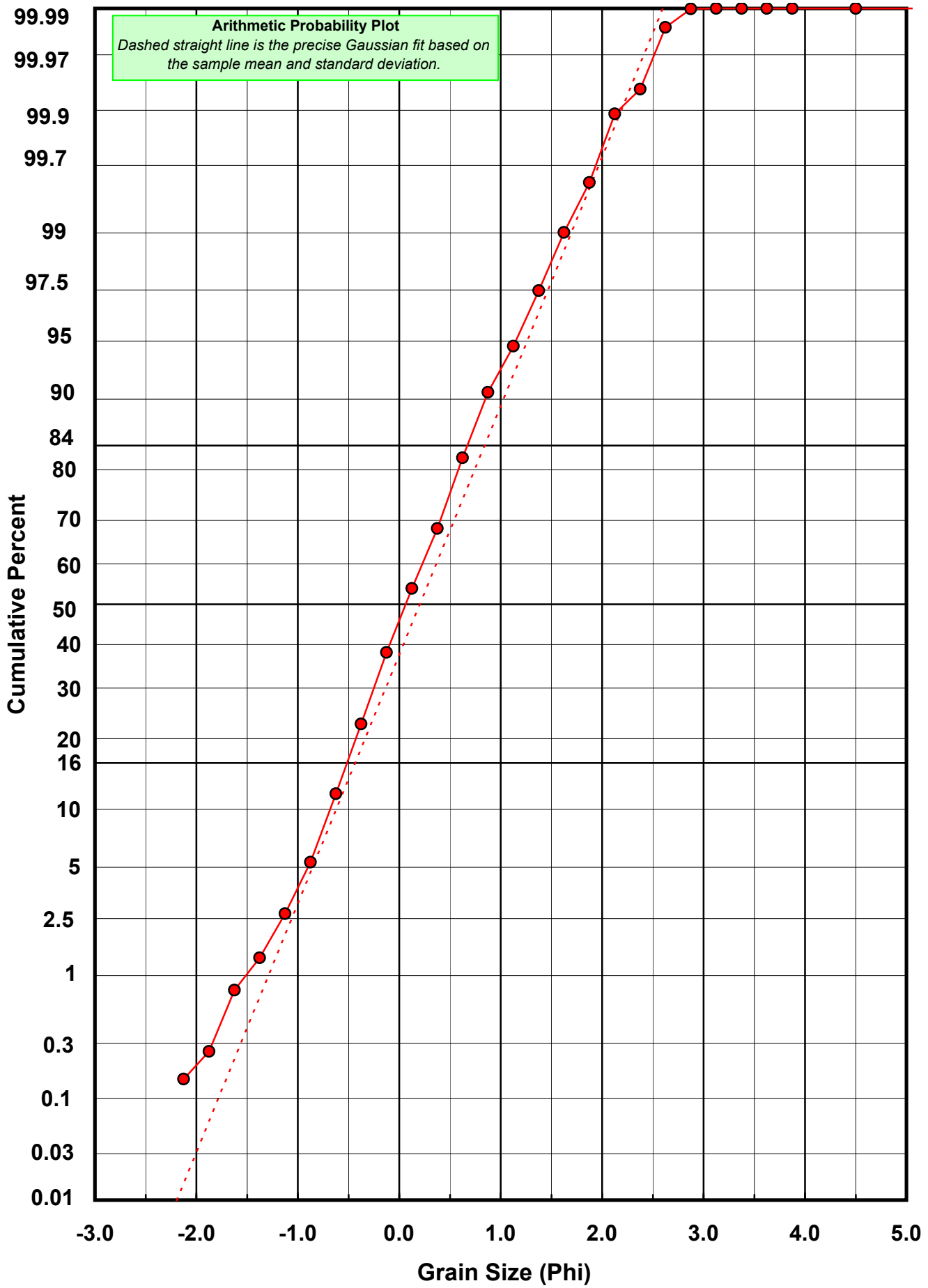
Statistical Results			
Mean:	0.2032	phi	(0.8686 mm)
Standard Dev:	0.6436	phi-units	(0.6401 mm)
Skewness:	0.0377	dimensionless	
Kurtosis:	3.4011	dimensionless	
5th Moment:	-0.0197	dimensionless	
6th Moment:	21.2068	dimensionless	
RARD *	3.1665	dimensionless	
Median	0.0623	phi	(0.9577 mm)

* 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-53-SS

Total Digested Mass: 35.669 grams

% Silica: 50.1 %

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	0.094	0.264	0.264
-0.25	-0.375	0.928	2.602	2.865
0.00	-0.125	2.809	7.875	10.740
0.25	0.125	5.678	15.919	26.659
0.50	0.375	5.777	16.196	42.855
0.75	0.625	6.065	17.004	59.859
1.00	0.875	6.012	16.855	76.714
1.25	1.125	2.644	7.413	84.126
1.50	1.375	1.844	5.170	89.296
1.75	1.625	1.173	3.289	92.585
2.00	1.875	0.974	2.731	95.315
2.25	2.125	0.659	1.848	97.163
2.50	2.375	0.472	1.323	98.486
2.75	2.625	0.291	0.816	99.302
3.00	2.875	0.148	0.415	99.717
3.25	3.125	0.059	0.165	99.882
3.50	3.375	0.023	0.064	99.947
3.75	3.625	0.010	0.028	99.975
4.00	3.875	0.009	0.025	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.6856	phi	(0.6217 mm)
Standard Dev:	0.6499	phi-units	(0.6373 mm)
Skewness:	0.9727	dimensionless	
Kurtosis:	4.1759	dimensionless	
5th Moment:	9.9713	dimensionless	
6th Moment:	35.3100	dimensionless	
RARD *	0.9479	dimensionless	
Median	0.4800	phi	(0.717 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)

