

Onshore Grab Sample

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

County: Volusia
Latitude: 28° 49' 57.12"
Longitude: 80° 45' 36.12"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 91.208 grams
Total Fines in Sample 0.239 grams
Total Percent Fines 0.26 %

Dry Sieving Summary

Total Sample Weight 91.088 grams
Total Digested Weight 39.286 grams
Total Carbonate Weight 51.802 grams
Total Silica % 43.13 %
Total Carbonate % 56.87 %
Carbonate/Silica Ratio 1.319

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-53-BB

Total Sample Mass: 91.088 grams

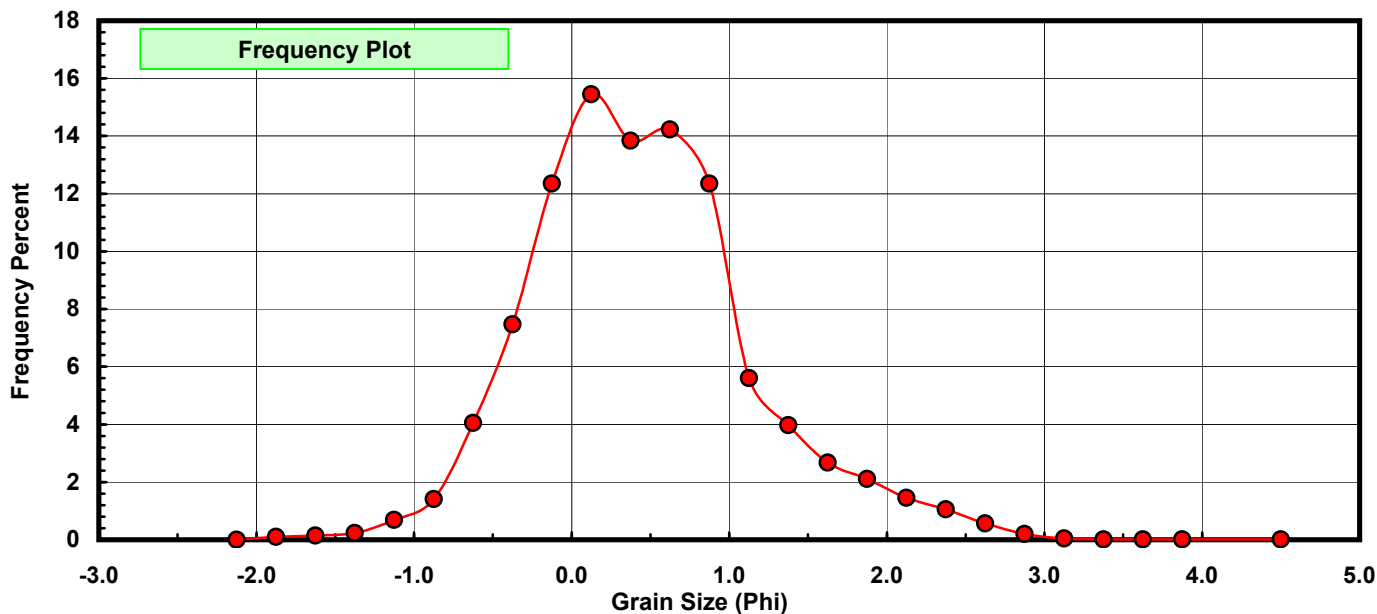
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.095	0.104	0.104
-1.50	-1.625	0.128	0.141	0.245
-1.25	-1.375	0.209	0.229	0.474
-1.00	-1.125	0.624	0.685	1.159
-0.75	-0.875	1.284	1.410	2.569
-0.50	-0.625	3.687	4.048	6.617
-0.25	-0.375	6.803	7.469	14.085
0.00	-0.125	11.252	12.353	26.438
0.25	0.125	14.069	15.446	41.884
0.50	0.375	12.603	13.836	55.720
0.75	0.625	12.954	14.221	69.941
1.00	0.875	11.250	12.351	82.292
1.25	1.125	5.106	5.606	87.897
1.50	1.375	3.614	3.968	91.865
1.75	1.625	2.438	2.677	94.542
2.00	1.875	1.917	2.105	96.646
2.25	2.125	1.320	1.449	98.095
2.50	2.375	0.962	1.056	99.151
2.75	2.625	0.520	0.571	99.722
3.00	2.875	0.181	0.199	99.921
3.25	3.125	0.040	0.044	99.965
3.50	3.375	0.012	0.013	99.978
3.75	3.625	0.006	0.007	99.985
4.00	3.875	0.006	0.007	99.991
5.00	4.500	0.008	0.009	100.000

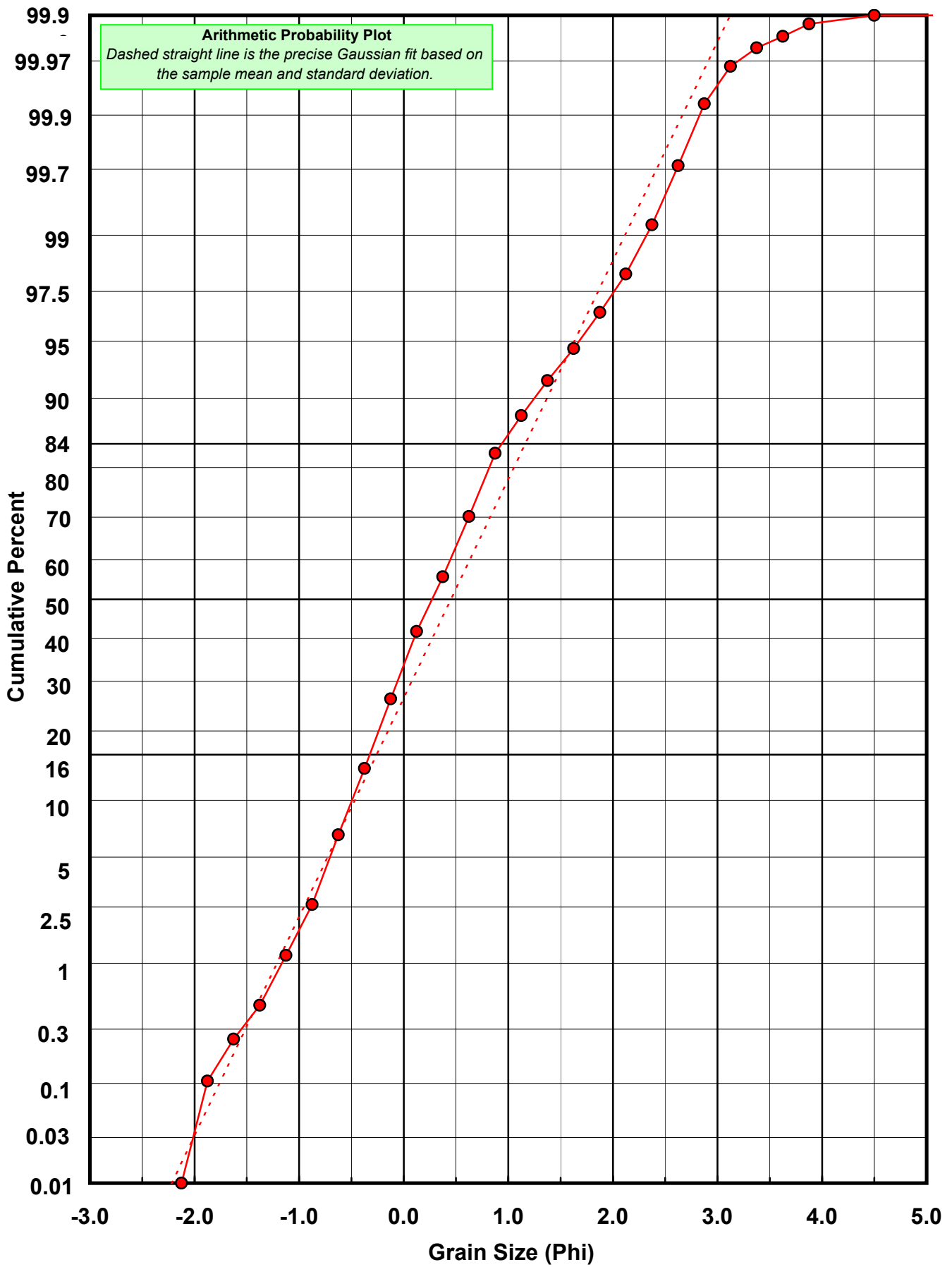
Statistical Results			
Mean:	0.4518	phi	(0.7311 mm)
Standard Dev:	0.7167	phi-units	(0.6085 mm)
Skewness:	0.5300	dimensionless	
Kurtosis:	3.7537	dimensionless	
5th Moment:	5.1954	dimensionless	
6th Moment:	26.6297	dimensionless	
RARD *	1.5864	dimensionless	
Median	0.2717	phi	(0.8284 mm)

* 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-BB

Total Carbonate Mass: 51.852 grams

% Carbonate: 56.9 %

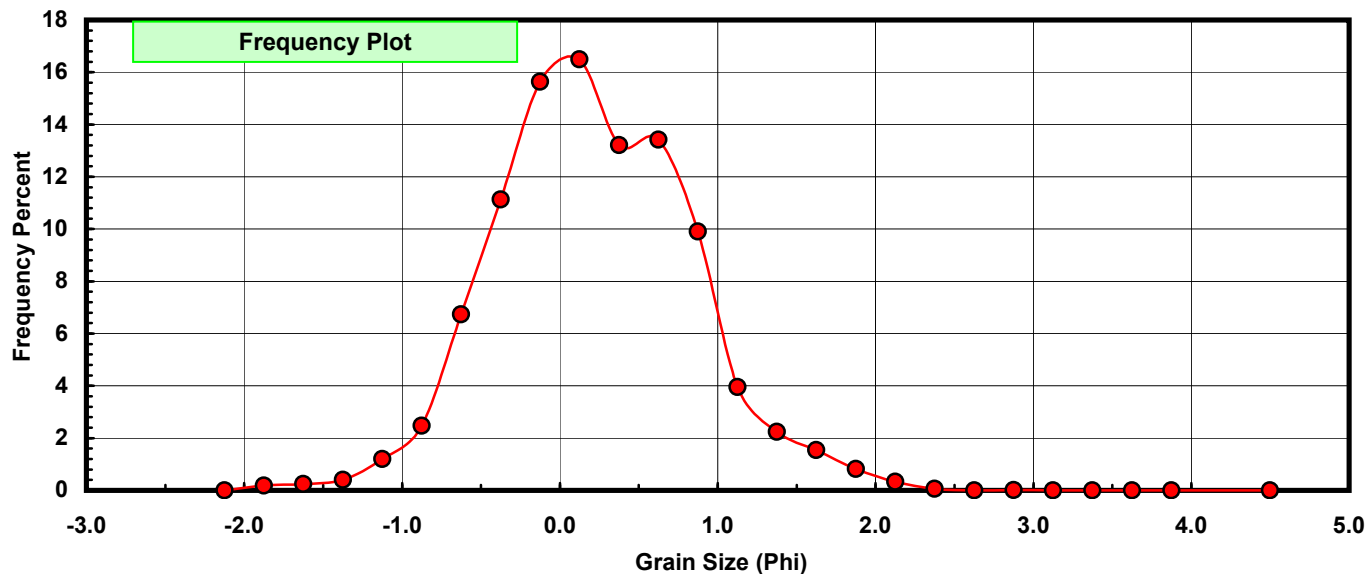
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.095	0.183	0.183
-1.50	-1.625	0.128	0.247	0.430
-1.25	-1.375	0.209	0.403	0.833
-1.00	-1.125	0.624	1.203	2.037
-0.75	-0.875	1.284	2.476	4.513
-0.50	-0.625	3.493	6.736	11.249
-0.25	-0.375	5.771	11.130	22.379
0.00	-0.125	8.111	15.643	38.022
0.25	0.125	8.554	16.497	54.519
0.50	0.375	6.851	13.213	67.731
0.75	0.625	6.956	13.415	81.146
1.00	0.875	5.135	9.903	91.050
1.25	1.125	2.050	3.954	95.003
1.50	1.375	1.159	2.235	97.238
1.75	1.625	0.797	1.537	98.775
2.00	1.875	0.428	0.825	99.601
2.25	2.125	0.169	0.326	99.927
2.50	2.375	0.034	0.066	99.992
2.75	2.625	0.000	0.000	99.992
3.00	2.875	0.004	0.008	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

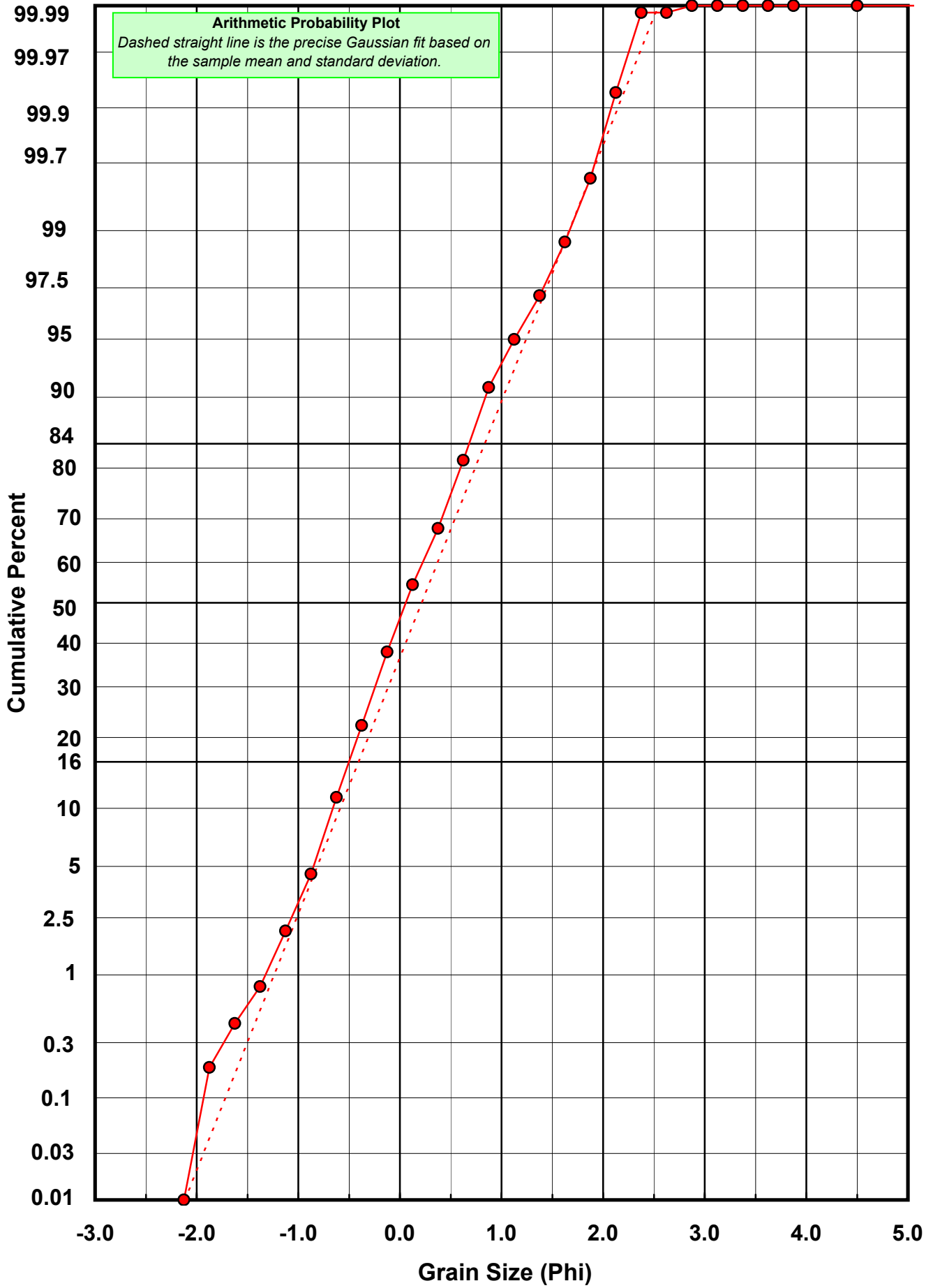
Statistical Results			
Mean:	0.2134	phi	(0.8625 mm)
Standard Dev:	0.6257	phi-units	(0.6481 mm)
Skewness:	0.1580	dimensionless	
Kurtosis:	3.2418	dimensionless	
5th Moment:	1.1695	dimensionless	
6th Moment:	18.4497	dimensionless	
RARD *	2.9314	dimensionless	
Median	0.0565	phi	(0.9616 mm)

* 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-BB

Total Digested Mass: 39.280 grams

% Silica: 43.1 %

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	0.194	0.494	0.494
-0.25	-0.375	1.032	2.627	3.121
0.00	-0.125	3.141	7.996	11.118
0.25	0.125	5.515	14.040	25.158
0.50	0.375	5.752	14.644	39.801
0.75	0.625	5.998	15.270	55.071
1.00	0.875	6.115	15.568	70.639
1.25	1.125	3.056	7.780	78.419
1.50	1.375	2.455	6.250	84.669
1.75	1.625	1.641	4.178	88.847
2.00	1.875	1.489	3.791	92.637
2.25	2.125	1.151	2.930	95.568
2.50	2.375	0.928	2.363	97.930
2.75	2.625	0.549	1.398	99.328
3.00	2.875	0.177	0.451	99.779
3.25	3.125	0.053	0.135	99.913
3.50	3.375	0.018	0.046	99.959
3.75	3.625	0.008	0.020	99.980
4.00	3.875	0.008	0.020	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.7689	phi	(0.5869 mm)
Standard Dev:	0.7168	phi-units	(0.6084 mm)
Skewness:	0.7729	dimensionless	
Kurtosis:	3.2545	dimensionless	
5th Moment:	5.8536	dimensionless	
6th Moment:	18.5763	dimensionless	
RARD *	0.9322	dimensionless	
Median	0.5420	phi	(0.6868 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)

