

Onshore Grab Sample

Sample: VO-13-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Volusia
Latitude: 29° 16' 21.24"
Longitude: 81° 01' 45.06"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 112.841 grams
Total Fines in Sample 0.811 grams
Total Percent Fines 0.71 %

Dry Sieving Summary

Total Sample Weight 112.731 grams
Total Digested Weight 107.375 grams
Total Carbonate Weight 5.356 grams
Total Silica % 95.25 %
Total Carbonate % 4.75 %
Carbonate/Silica Ratio 0.050

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-13-SS

Total Sample Mass: 112.731 grams

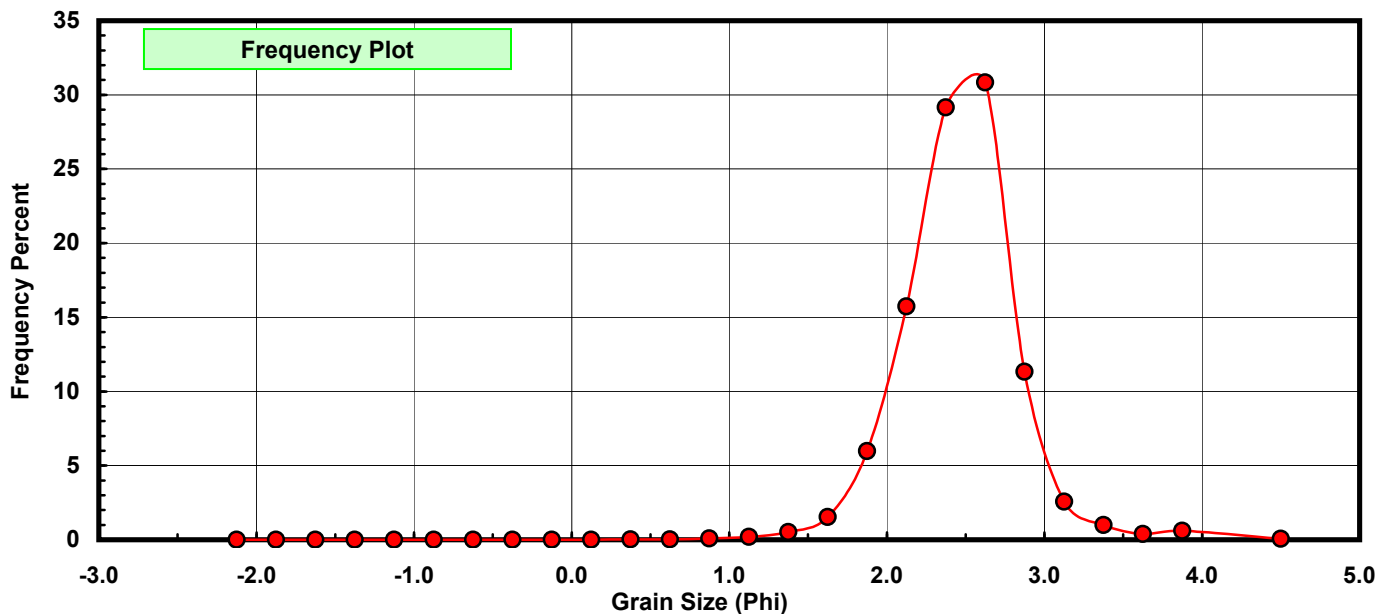
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.009	0.008	0.008
0.25	0.125	0.005	0.004	0.012
0.50	0.375	0.018	0.016	0.028
0.75	0.625	0.030	0.027	0.055
1.00	0.875	0.102	0.090	0.145
1.25	1.125	0.214	0.190	0.335
1.50	1.375	0.591	0.524	0.860
1.75	1.625	1.720	1.526	2.385
2.00	1.875	6.750	5.988	8.373
2.25	2.125	17.732	15.729	24.103
2.50	2.375	32.860	29.149	53.252
2.75	2.625	34.762	30.836	84.088
3.00	2.875	12.765	11.323	95.411
3.25	3.125	2.888	2.562	97.973
3.50	3.375	1.109	0.984	98.957
3.75	3.625	0.432	0.383	99.340
4.00	3.875	0.678	0.601	99.941
5.00	4.500	0.066	0.059	100.000

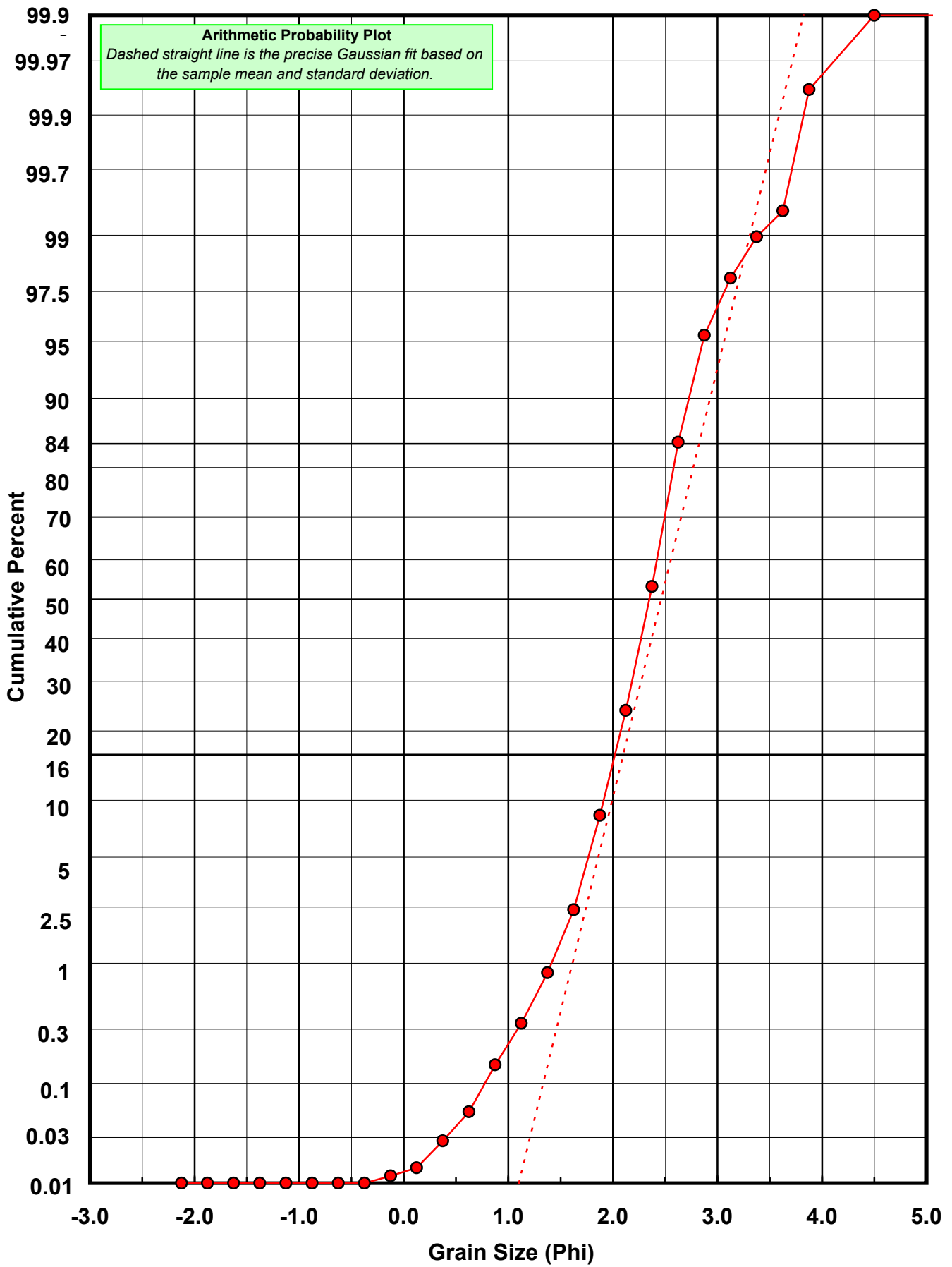
Statistical Results			
Mean:	2.4621	phi	(0.1815 mm)
Standard Dev:	0.3652	phi-units	(0.7763 mm)
Skewness:	0.1033	dimensionless	
Kurtosis:	5.8457	dimensionless	
5th Moment:	2.0138	dimensionless	
6th Moment:	86.7775	dimensionless	
RARD *	0.1483	dimensionless	
Median	2.3471	phi	(0.1965 mm)

* 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-13-SS

Total Carbonate Mass: 6.253 grams

% Carbonate: 4.8 %

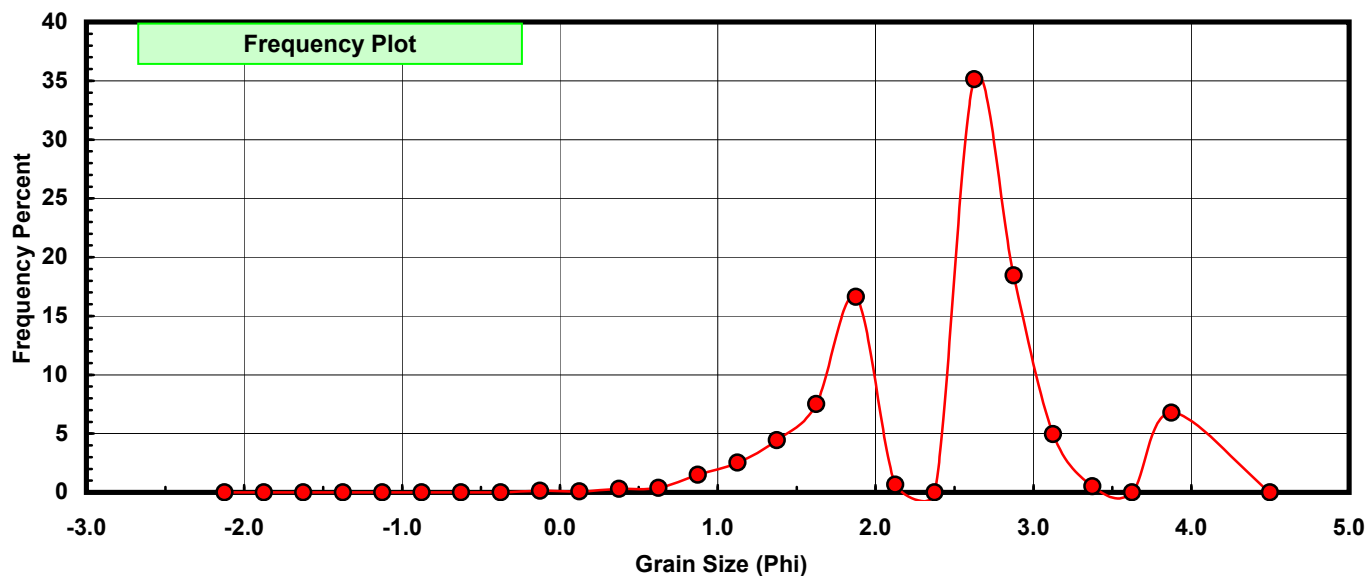
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.009	0.144	0.144
0.25	0.125	0.005	0.080	0.224
0.50	0.375	0.018	0.288	0.512
0.75	0.625	0.024	0.384	0.896
1.00	0.875	0.094	1.503	2.399
1.25	1.125	0.158	2.527	4.926
1.50	1.375	0.278	4.446	9.372
1.75	1.625	0.470	7.516	16.888
2.00	1.875	1.040	16.632	33.520
2.25	2.125	0.041	0.656	34.176
2.50	2.375	0.000	0.000	34.176
2.75	2.625	2.197	35.135	69.311
3.00	2.875	1.154	18.455	87.766
3.25	3.125	0.309	4.942	92.708
3.50	3.375	0.032	0.512	93.219
3.75	3.625	0.000	0.000	93.219
4.00	3.875	0.424	6.781	100.000
5.00	4.500	0.000	0.000	100.000

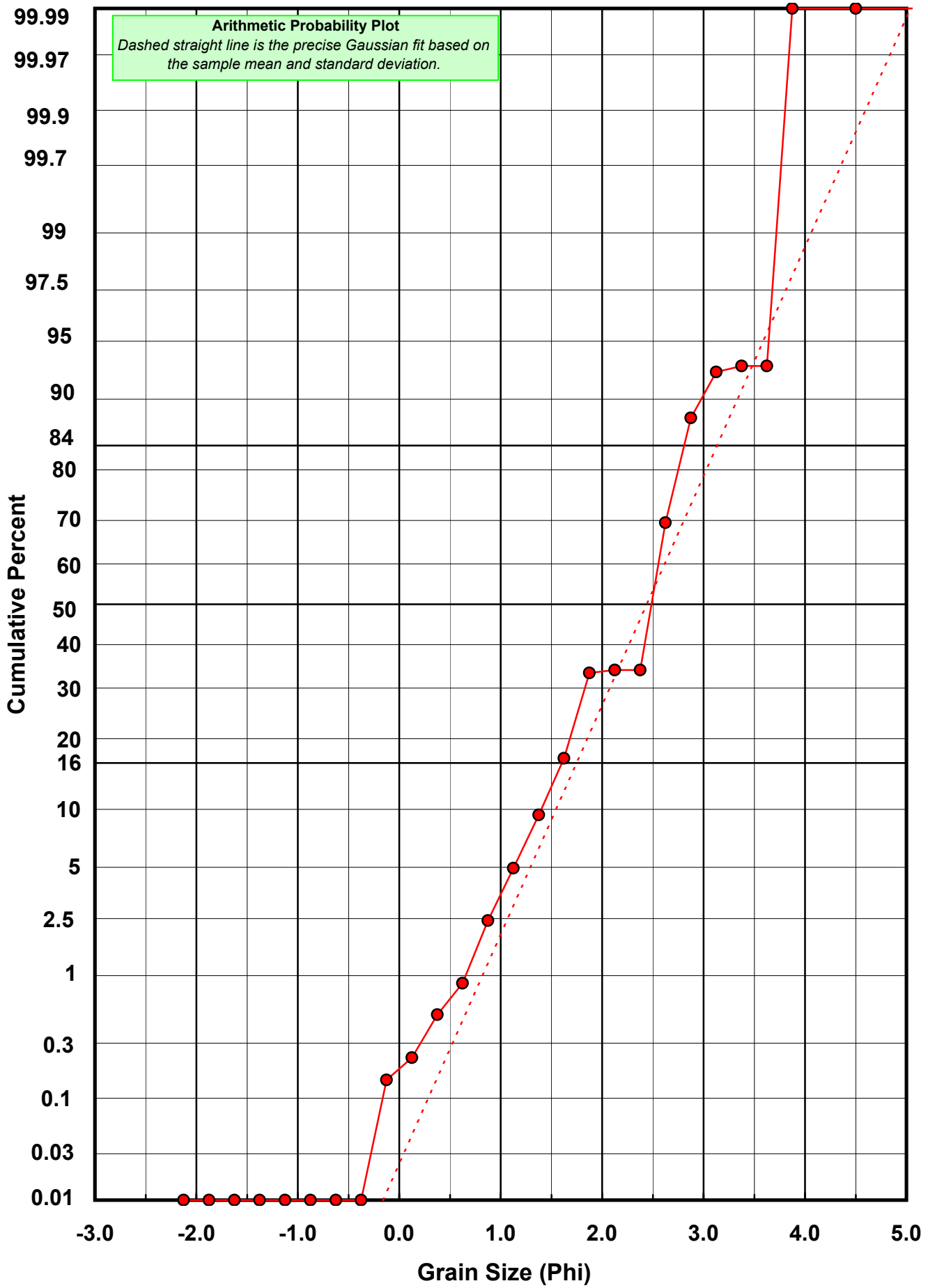
Statistical Results			
Mean:	2.4414	phi	(0.1841 mm)
Standard Dev:	0.6982	phi-units	(0.6163 mm)
Skewness:	-0.2536	dimensionless	
Kurtosis:	3.2068	dimensionless	
5th Moment:	-1.8874	dimensionless	
6th Moment:	16.7571	dimensionless	
RARD *	0.2860	dimensionless	
Median	2.4876	phi	(0.1783 mm)

* 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-13-SS

Total Digested Mass: 107.311 grams

% Silica: 95.2 %

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	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.000	0.000	0.000
0.75	0.625	0.006	0.006	0.006
1.00	0.875	0.008	0.007	0.013
1.25	1.125	0.056	0.052	0.065
1.50	1.375	0.313	0.292	0.357
1.75	1.625	1.250	1.165	1.522
2.00	1.875	5.710	5.321	6.843
2.25	2.125	17.691	16.486	23.328
2.50	2.375	33.317	31.047	54.376
2.75	2.625	32.565	30.346	84.722
3.00	2.875	11.611	10.820	95.542
3.25	3.125	2.579	2.403	97.945
3.50	3.375	1.077	1.004	98.949
3.75	3.625	0.874	0.814	99.763
4.00	3.875	0.254	0.237	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.4664	phi	(0.1809 mm)
Standard Dev:	0.3385	phi-units	(0.7909 mm)
Skewness:	0.3076	dimensionless	
Kurtosis:	4.6239	dimensionless	
5th Moment:	5.0722	dimensionless	
6th Moment:	43.1907	dimensionless	
RARD *	0.1372	dimensionless	
Median	2.3398	phi	(0.1975 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)

