

Onshore Grab Sample

Sample: VO-48-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: Volusia
Latitude: 28° 52' 50.04"
Longitude: 80° 47' 26.04"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 98.874 grams
Total Fines in Sample 0.395 grams
Total Percent Fines 0.40 %

Dry Sieving Summary

Total Sample Weight 98.512 grams
Total Digested Weight 39.407 grams
Total Carbonate Weight 59.105 grams
Total Silica % 40.00 %
Total Carbonate % 60.00 %
Carbonate/Silica Ratio 1.500

General Comments:

Post-Digestion -1.50 phi: Organics Only

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-48-SS

Total Sample Mass: 98.512 grams

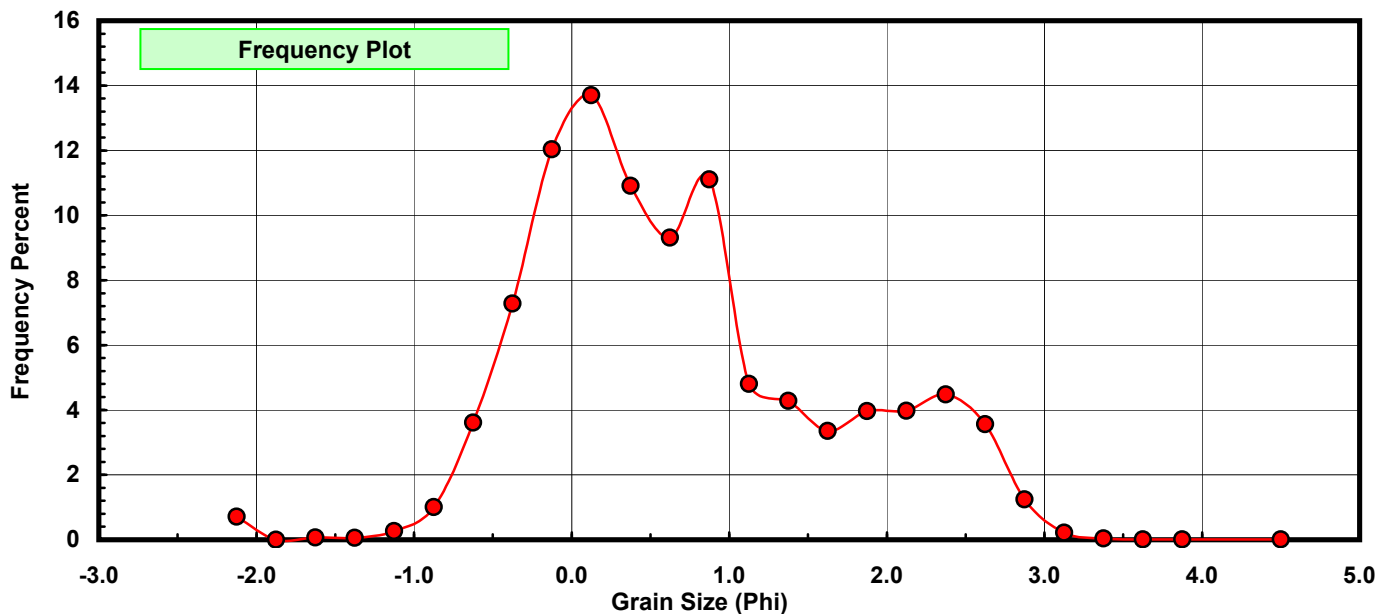
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.700	0.711	0.711
-1.75	-1.875	0.000	0.000	0.711
-1.50	-1.625	0.072	0.073	0.784
-1.25	-1.375	0.062	0.063	0.847
-1.00	-1.125	0.263	0.267	1.114
-0.75	-0.875	0.987	1.002	2.115
-0.50	-0.625	3.561	3.615	5.730
-0.25	-0.375	7.170	7.278	13.009
0.00	-0.125	11.854	12.033	25.042
0.25	0.125	13.494	13.698	38.739
0.50	0.375	10.746	10.908	49.648
0.75	0.625	9.170	9.309	58.956
1.00	0.875	10.945	11.110	70.067
1.25	1.125	4.729	4.800	74.867
1.50	1.375	4.215	4.279	79.146
1.75	1.625	3.307	3.357	82.503
2.00	1.875	3.904	3.963	86.466
2.25	2.125	3.914	3.973	90.439
2.50	2.375	4.407	4.474	94.912
2.75	2.625	3.506	3.559	98.471
3.00	2.875	1.224	1.242	99.714
3.25	3.125	0.214	0.217	99.931
3.50	3.375	0.038	0.039	99.970
3.75	3.625	0.014	0.014	99.984
4.00	3.875	0.009	0.009	99.993
5.00	4.500	0.007	0.007	100.000

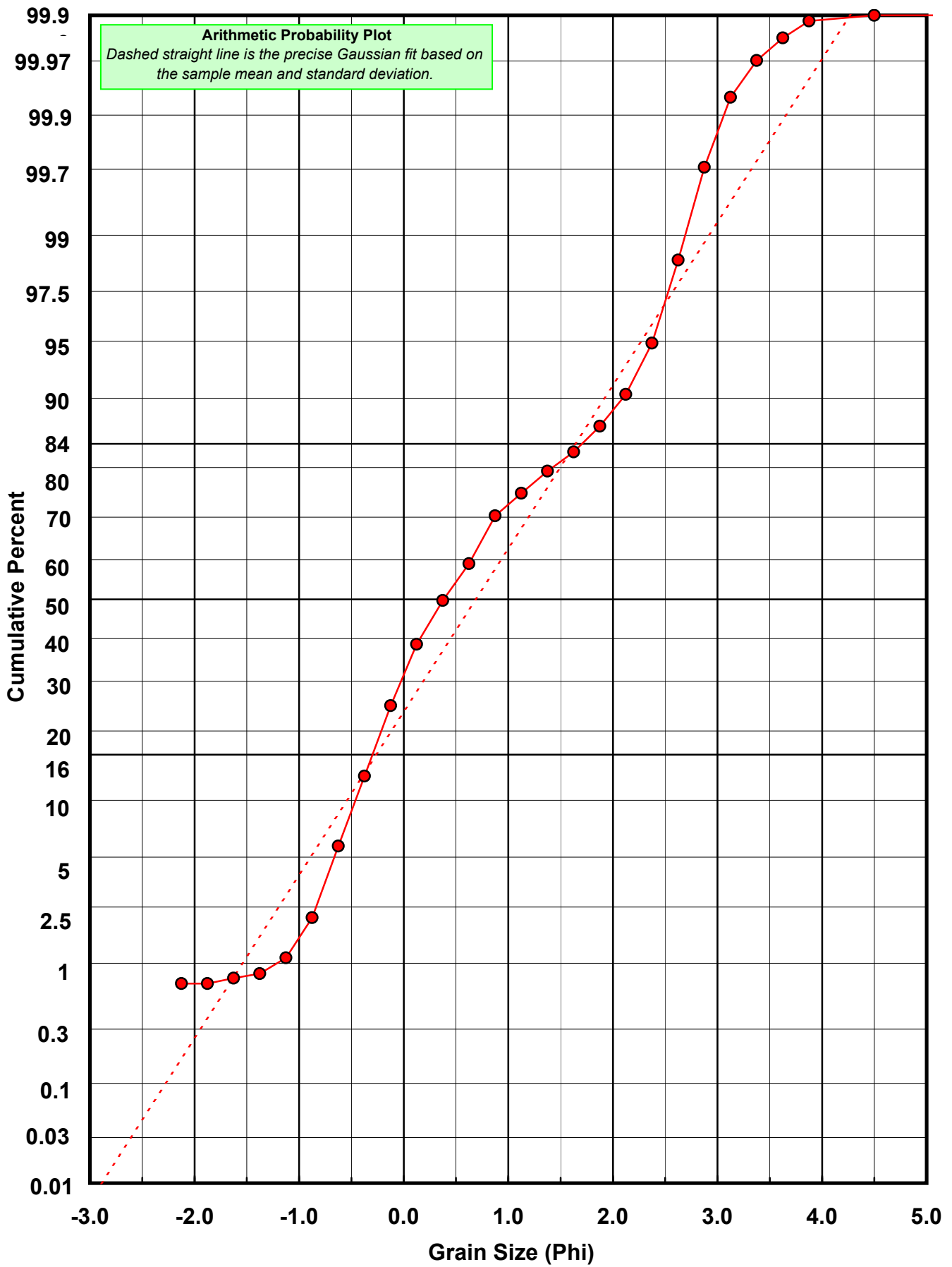
Statistical Results			
Mean:	0.6904	phi	(0.6197 mm)
Standard Dev:	0.9611	phi-units	(0.5137 mm)
Skewness:	0.4416	dimensionless	
Kurtosis:	2.8350	dimensionless	
5th Moment:	1.4074	dimensionless	
6th Moment:	12.8148	dimensionless	
RARD *	1.3922	dimensionless	
Median	0.3845	phi	(0.7661 mm)

* 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-48-SS

Total Carbonate Mass: 59.109 grams

% Carbonate: 60.0 %

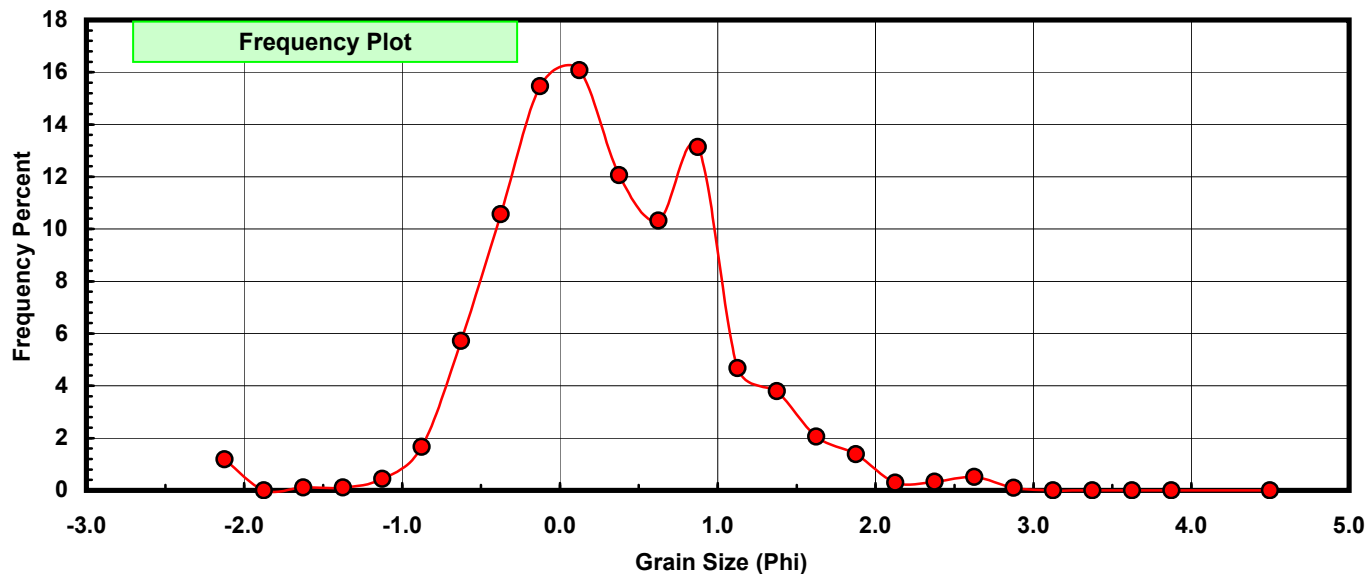
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.700	1.184	1.184
-1.75	-1.875	0.000	0.000	1.184
-1.50	-1.625	0.065	0.110	1.294
-1.25	-1.375	0.062	0.105	1.399
-1.00	-1.125	0.263	0.445	1.844
-0.75	-0.875	0.987	1.670	3.514
-0.50	-0.625	3.381	5.720	9.234
-0.25	-0.375	6.243	10.562	19.796
0.00	-0.125	9.140	15.463	35.259
0.25	0.125	9.500	16.072	51.331
0.50	0.375	7.129	12.061	63.391
0.75	0.625	6.104	10.327	73.718
1.00	0.875	7.766	13.138	86.856
1.25	1.125	2.763	4.674	91.531
1.50	1.375	2.242	3.793	95.324
1.75	1.625	1.218	2.061	97.384
2.00	1.875	0.815	1.379	98.763
2.25	2.125	0.175	0.296	99.059
2.50	2.375	0.194	0.328	99.388
2.75	2.625	0.307	0.519	99.907
3.00	2.875	0.055	0.093	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

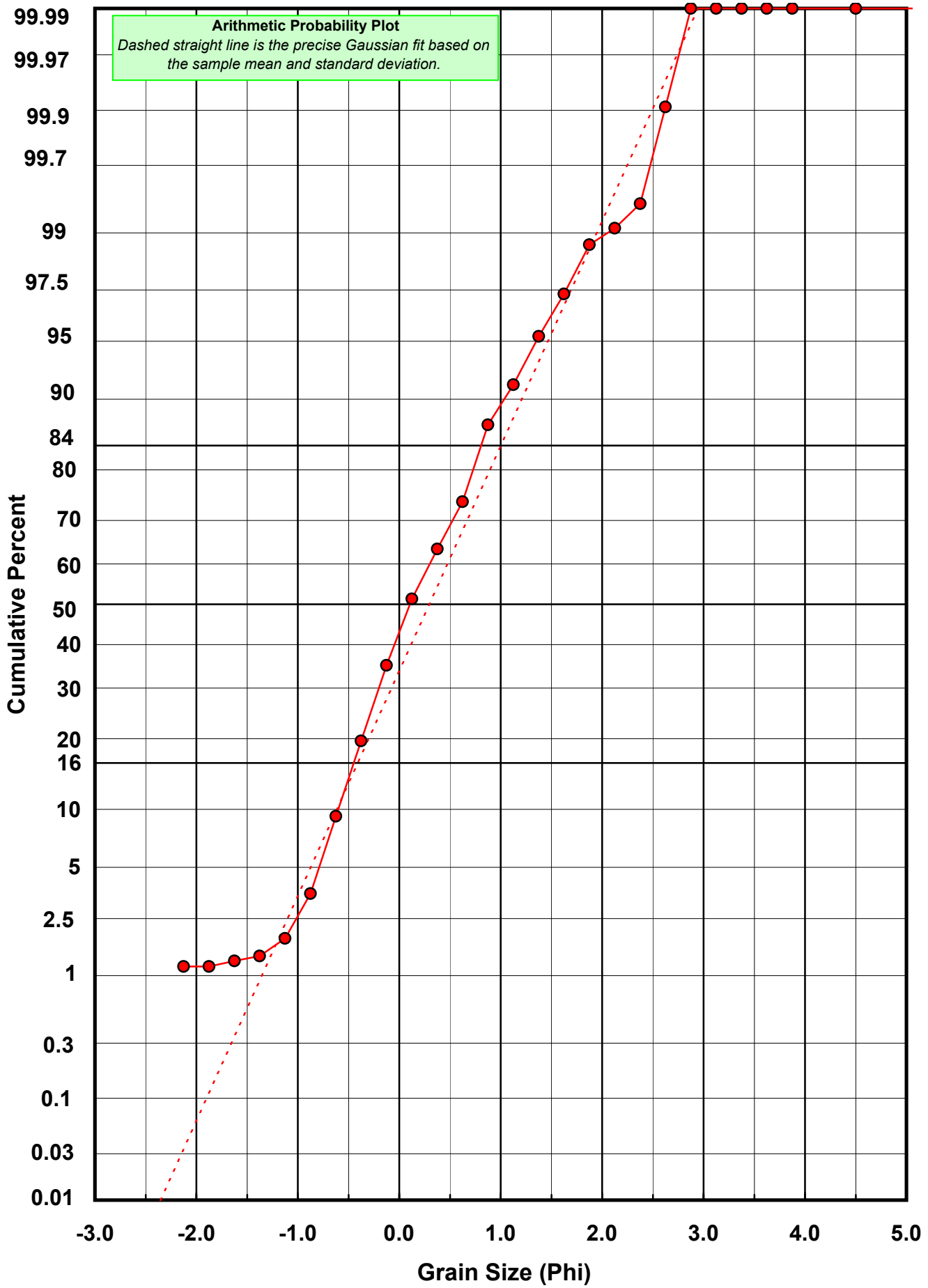
Statistical Results			
Mean:	0.2966	phi	(0.8142 mm)
Standard Dev:	0.7117	phi-units	(0.6106 mm)
Skewness:	0.0711	dimensionless	
Kurtosis:	4.2619	dimensionless	
5th Moment:	-1.0800	dimensionless	
6th Moment:	35.0247	dimensionless	
RARD *	2.3995	dimensionless	
Median	0.1043	phi	(0.9303 mm)

* 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-48-SS

Total Digested Mass: 39.400 grams

% Silica: 40.0 %

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	0.007	0.018	0.018
-1.25	-1.375	0.000	0.000	0.018
-1.00	-1.125	0.000	0.000	0.018
-0.75	-0.875	0.000	0.000	0.018
-0.50	-0.625	0.180	0.457	0.475
-0.25	-0.375	0.927	2.353	2.827
0.00	-0.125	2.714	6.888	9.716
0.25	0.125	3.994	10.137	19.853
0.50	0.375	3.617	9.180	29.033
0.75	0.625	3.066	7.782	36.815
1.00	0.875	3.179	8.069	44.883
1.25	1.125	1.966	4.990	49.873
1.50	1.375	1.973	5.008	54.881
1.75	1.625	2.089	5.302	60.183
2.00	1.875	3.089	7.840	68.023
2.25	2.125	3.739	9.490	77.513
2.50	2.375	4.213	10.693	88.206
2.75	2.625	3.199	8.119	96.325
3.00	2.875	1.169	2.967	99.292
3.25	3.125	0.214	0.543	99.835
3.50	3.375	0.042	0.107	99.942
3.75	3.625	0.014	0.036	99.977
4.00	3.875	0.009	0.023	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.2807	phi	(0.4116 mm)
Standard Dev:	0.9905	phi-units	(0.5033 mm)
Skewness:	-0.0005	dimensionless	
Kurtosis:	1.6534	dimensionless	
5th Moment:	-0.0110	dimensionless	
6th Moment:	3.5424	dimensionless	
RARD *	0.7734	dimensionless	
Median	1.1313	phi	(0.4565 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)

