

Onshore Grab Sample

Sample: VO-01-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? Yes: 1

County: Volusia
Latitude: 29° 25' 2.40"
Longitude: 81° 05' 52.56"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 56.055 grams
Total Fines in Sample 0.612 grams
Total Percent Fines 1.08 %

Dry Sieving Summary

Total Sample Weight 56.146 grams
Total Digested Weight 34.954 grams
Total Carbonate Weight 21.192 grams
Total Silica % 62.26 %
Total Carbonate % 37.74 %
Carbonate/Silica Ratio 0.606

General Comments:

Original Weight (with Beaker): 281.394

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-01-SS

Total Sample Mass: 56.146 grams

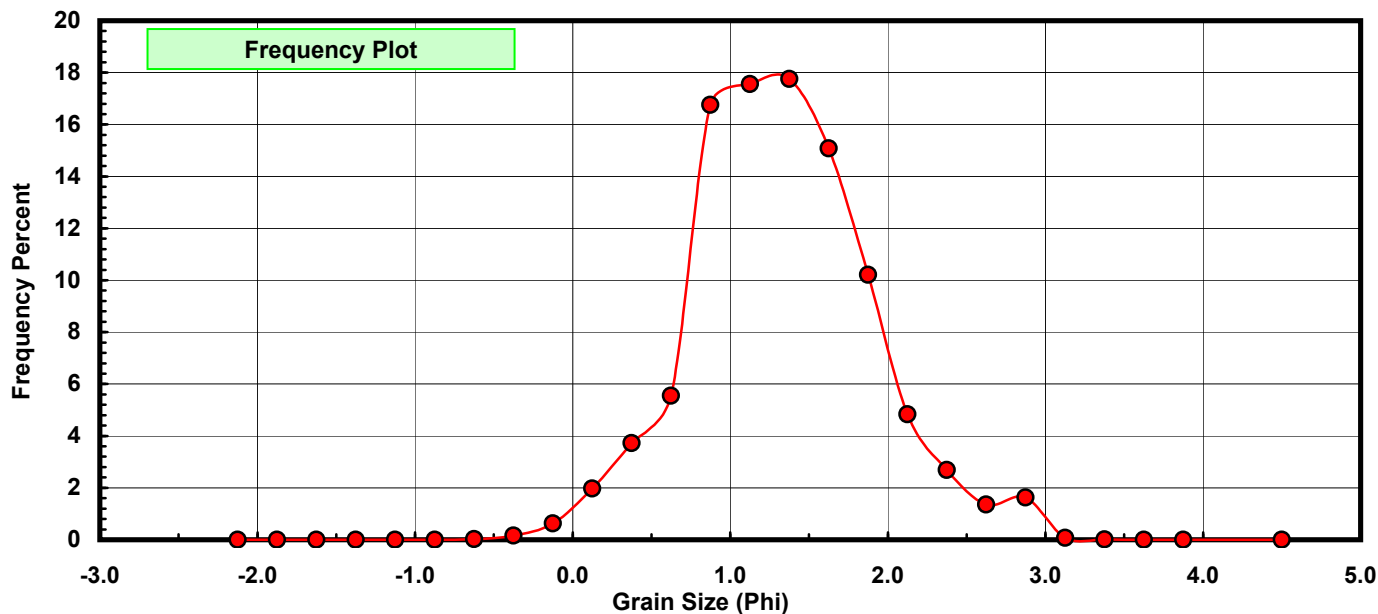
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.001	0.002	0.002
-0.50	-0.625	0.016	0.028	0.030
-0.25	-0.375	0.087	0.155	0.185
0.00	-0.125	0.350	0.623	0.809
0.25	0.125	1.106	1.970	2.778
0.50	0.375	2.092	3.726	6.504
0.75	0.625	3.115	5.548	12.053
1.00	0.875	9.405	16.751	28.803
1.25	1.125	9.858	17.558	46.361
1.50	1.375	9.967	17.752	64.113
1.75	1.625	8.468	15.082	79.195
2.00	1.875	5.735	10.214	89.410
2.25	2.125	2.716	4.837	94.247
2.50	2.375	1.509	2.688	96.935
2.75	2.625	0.761	1.355	98.290
3.00	2.875	0.914	1.628	99.918
3.25	3.125	0.041	0.073	99.991
3.50	3.375	0.005	0.009	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

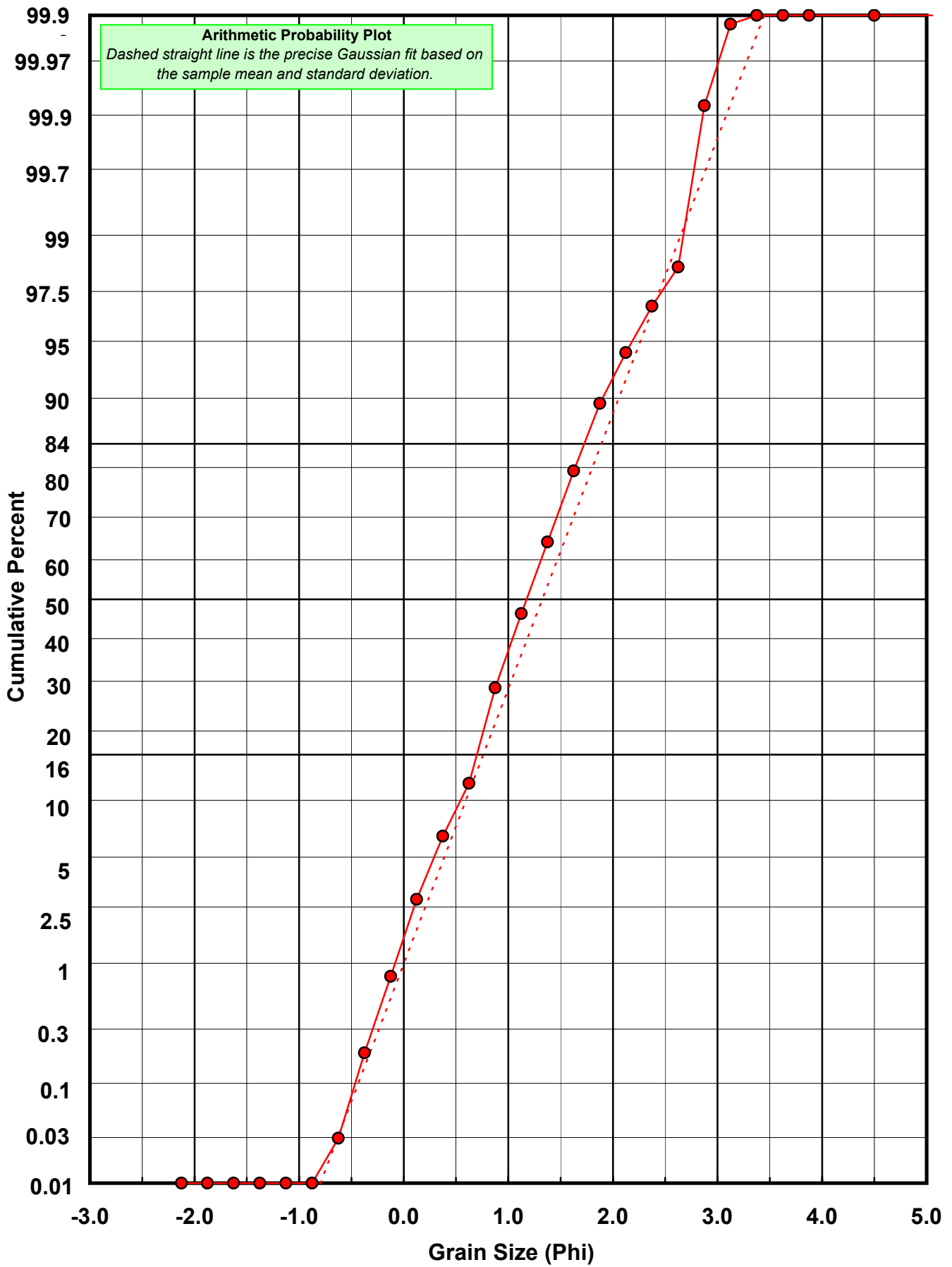
Statistical Results			
Mean:	1.3259	phi	(0.3989 mm)
Standard Dev:	0.5700	phi-units	(0.6736 mm)
Skewness:	0.2248	dimensionless	
Kurtosis:	3.2934	dimensionless	
5th Moment:	1.7902	dimensionless	
6th Moment:	17.2380	dimensionless	
RARD *	0.4299	dimensionless	
Median	1.1762	phi	(0.4425 mm)

* 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-01-SS

Total Carbonate Mass: 21.198 grams

% Carbonate: 37.7 %

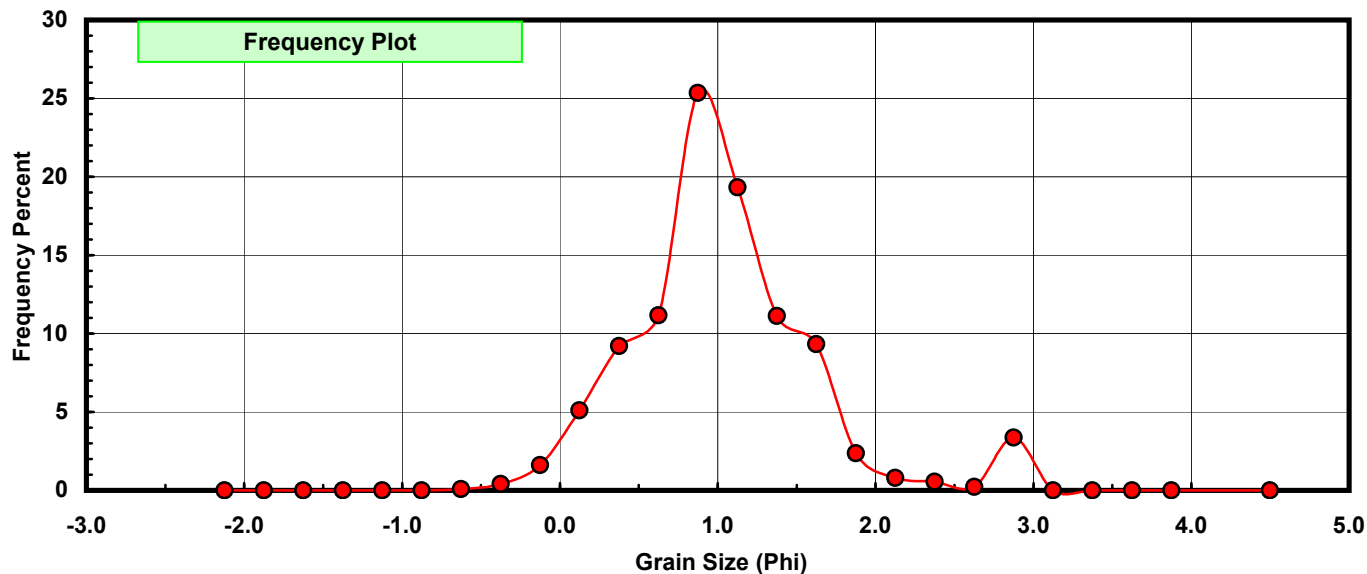
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.001	0.005	0.005
-0.50	-0.625	0.016	0.075	0.080
-0.25	-0.375	0.087	0.410	0.491
0.00	-0.125	0.343	1.618	2.109
0.25	0.125	1.082	5.104	7.213
0.50	0.375	1.951	9.204	16.417
0.75	0.625	2.368	11.171	27.588
1.00	0.875	5.372	25.342	52.930
1.25	1.125	4.097	19.327	72.257
1.50	1.375	2.357	11.119	83.376
1.75	1.625	1.978	9.331	92.707
2.00	1.875	0.502	2.368	95.075
2.25	2.125	0.170	0.802	95.877
2.50	2.375	0.115	0.543	96.419
2.75	2.625	0.046	0.217	96.636
3.00	2.875	0.713	3.364	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

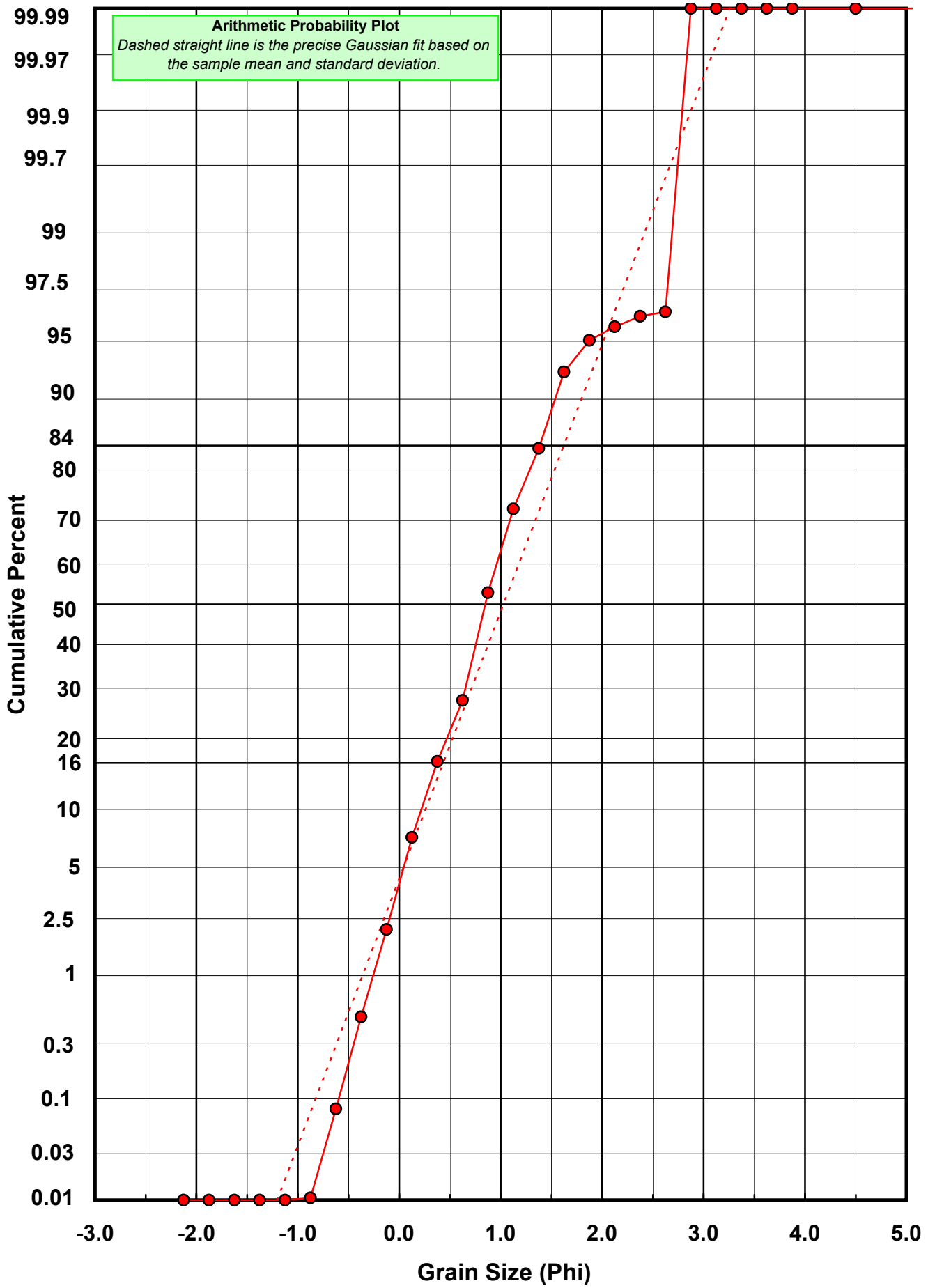
Statistical Results			
Mean:	1.0271	phi	(0.4907 mm)
Standard Dev:	0.5991	phi-units	(0.6602 mm)
Skewness:	0.8461	dimensionless	
Kurtosis:	4.6100	dimensionless	
5th Moment:	9.4429	dimensionless	
6th Moment:	35.3432	dimensionless	
RARD *	0.5833	dimensionless	
Median	0.8461	phi	(0.5563 mm)

* 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-01-SS

Total Digested Mass: 34.954 grams

% Silica: 62.3 %

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	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.007	0.020	0.020
0.25	0.125	0.024	0.069	0.089
0.50	0.375	0.141	0.403	0.492
0.75	0.625	0.747	2.137	2.629
1.00	0.875	4.033	11.538	14.167
1.25	1.125	5.761	16.482	30.649
1.50	1.375	7.610	21.771	52.420
1.75	1.625	6.490	18.567	70.988
2.00	1.875	5.233	14.971	85.959
2.25	2.125	2.546	7.284	93.243
2.50	2.375	1.394	3.988	97.231
2.75	2.625	0.715	2.046	99.276
3.00	2.875	0.201	0.575	99.851
3.25	3.125	0.046	0.132	99.983
3.50	3.375	0.006	0.017	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:	1.5075	phi	(0.3517 mm)
Standard Dev:	0.4745	phi-units	(0.7197 mm)
Skewness:	0.3729	dimensionless	
Kurtosis:	2.9384	dimensionless	
5th Moment:	3.0389	dimensionless	
6th Moment:	14.8718	dimensionless	
RARD *	0.3147	dimensionless	
Median	1.3472	phi	(0.3931 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)
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