

**Onshore Grab Sample**

**Sample:** VO-54-BB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** N/A

**County:** Volusia  
**Latitude:** 28° 49' 22.74"  
**Longitude:** 80° 45' 14.82"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 87.275 grams  
Total Fines in Sample 0.233 grams  
Total Percent Fines 0.27 %

**Dry Sieving Summary**

Total Sample Weight 87.175 grams  
Total Digested Weight 33.944 grams  
Total Carbonate Weight 53.231 grams  
Total Silica % 38.94 %  
Total Carbonate % 61.06 %  
Carbonate/Silica Ratio 1.568

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-54-BB

Total Sample Mass: 87.175 grams

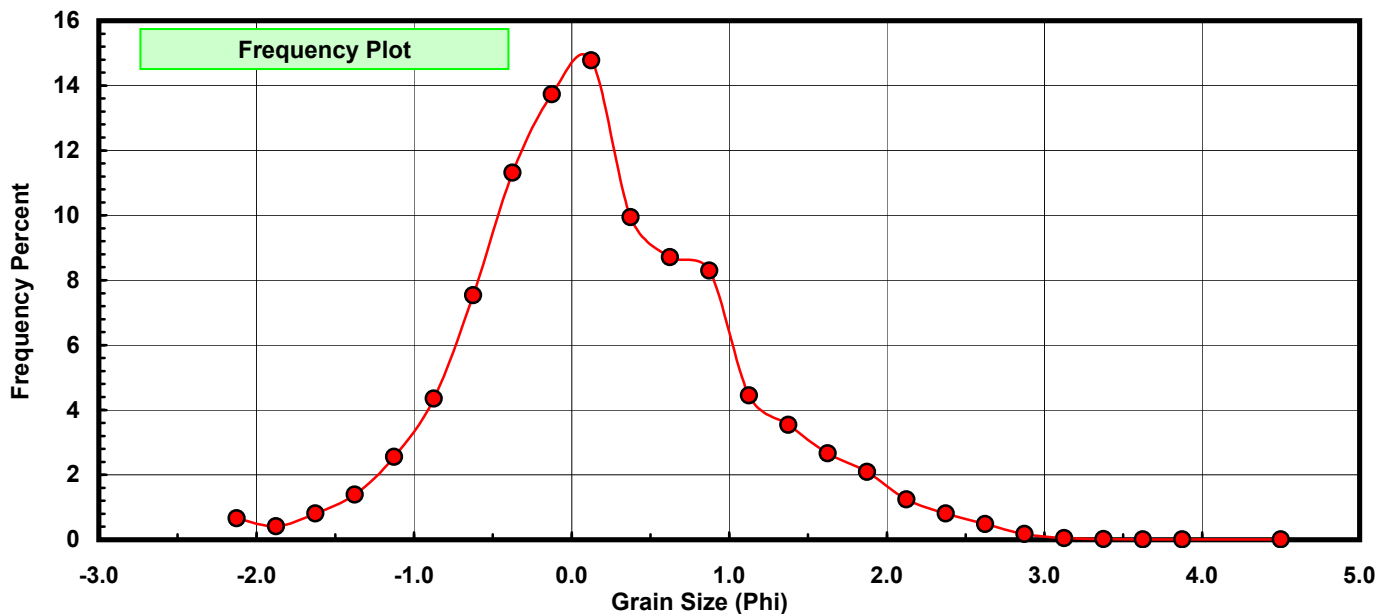
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.574	0.658	0.658
-1.75	-1.875	0.360	0.413	1.071
-1.50	-1.625	0.704	0.808	1.879
-1.25	-1.375	1.209	1.387	3.266
-1.00	-1.125	2.226	2.553	5.819
-0.75	-0.875	3.789	4.346	10.166
-0.50	-0.625	6.567	7.533	17.699
-0.25	-0.375	9.861	11.312	29.011
0.00	-0.125	11.969	13.730	42.740
0.25	0.125	12.882	14.777	57.518
0.50	0.375	8.669	9.944	67.462
0.75	0.625	7.592	8.709	76.171
1.00	0.875	7.235	8.299	84.470
1.25	1.125	3.874	4.444	88.914
1.50	1.375	3.085	3.539	92.453
1.75	1.625	2.325	2.667	95.120
2.00	1.875	1.820	2.088	97.208
2.25	2.125	1.084	1.243	98.451
2.50	2.375	0.706	0.810	99.261
2.75	2.625	0.419	0.481	99.742
3.00	2.875	0.152	0.174	99.916
3.25	3.125	0.040	0.046	99.962
3.50	3.375	0.013	0.015	99.977
3.75	3.625	0.007	0.008	99.985
4.00	3.875	0.007	0.008	99.993
5.00	4.500	0.006	0.007	100.000

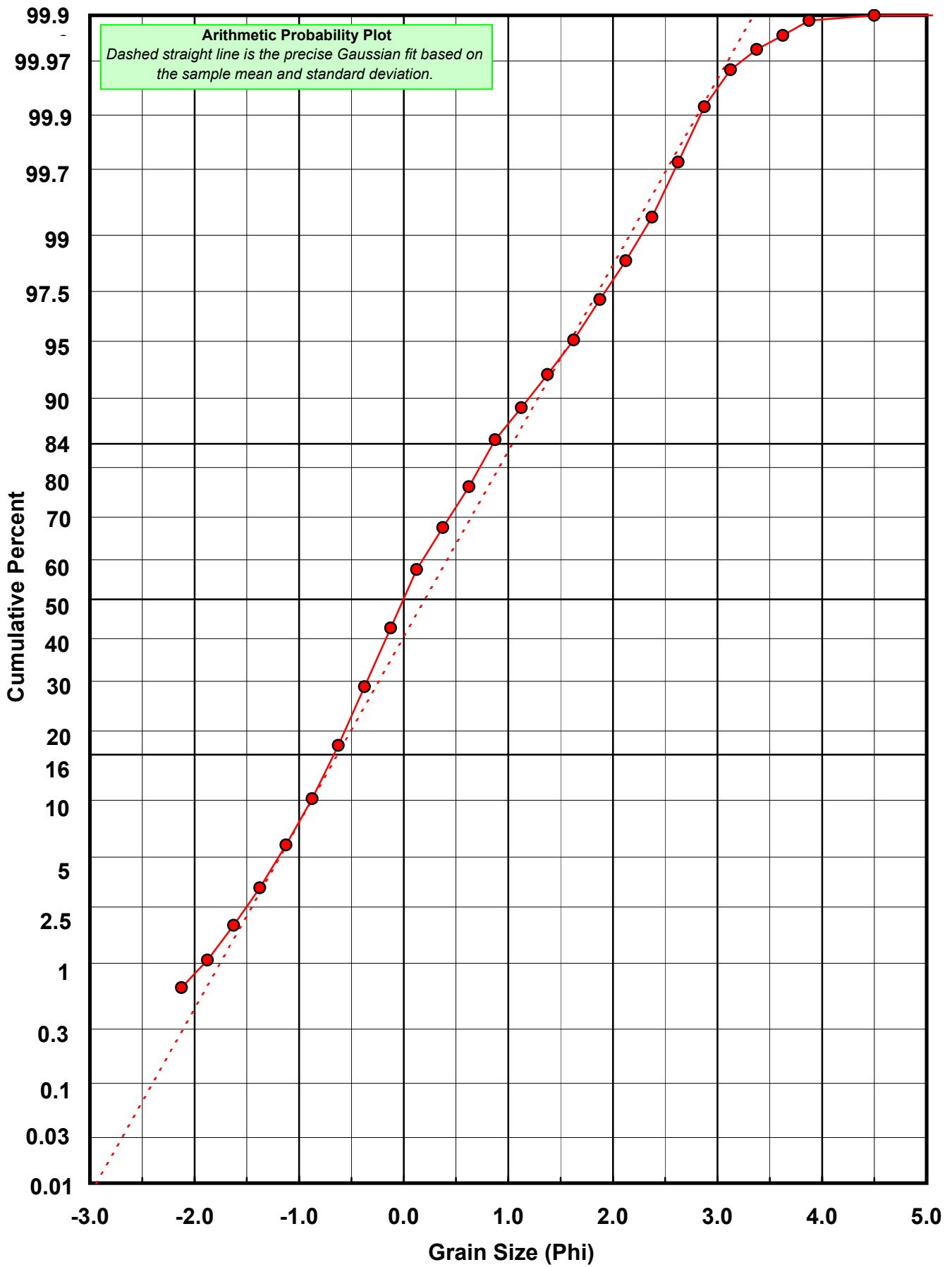
Statistical Results			
Mean:	0.2027	phi	(0.8689 mm)
Standard Dev:	0.8438	phi-units	(0.5572 mm)
Skewness:	0.3247	dimensionless	
Kurtosis:	3.4470	dimensionless	
5th Moment:	2.6664	dimensionless	
6th Moment:	20.2303	dimensionless	
RARD *	4.1619	dimensionless	
Median	-0.0022	phi	(1.0015 mm)

\* 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-54-BB

Total Carbonate Mass: 53.262 grams

% Carbonate: 61.1 %

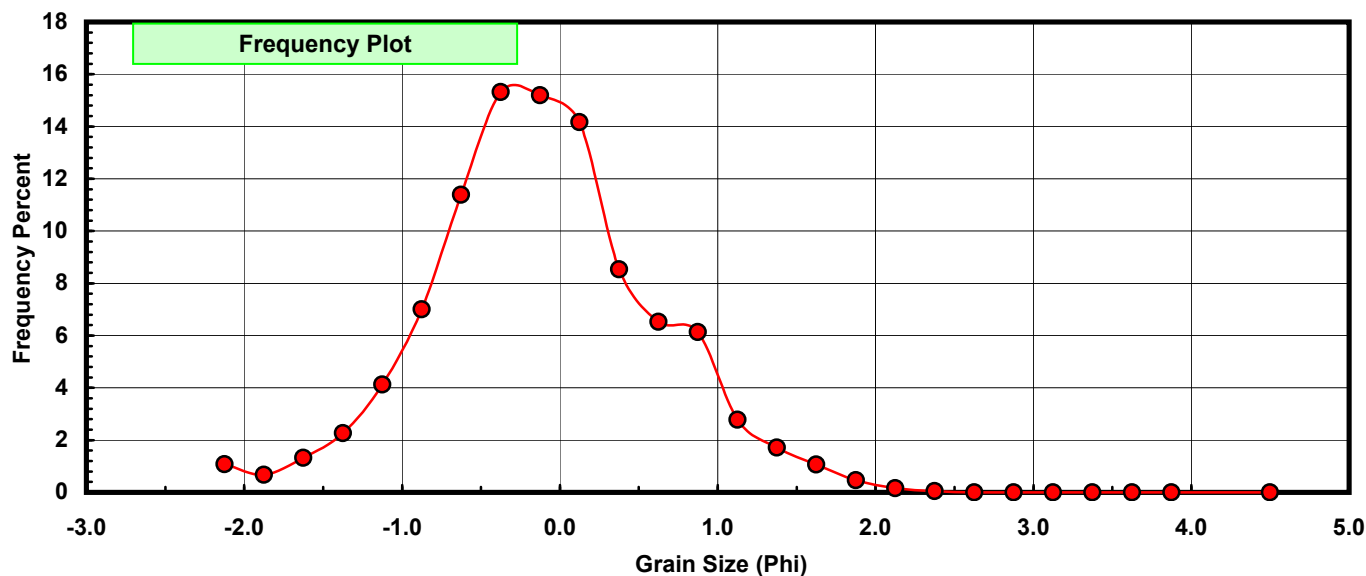
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.574	1.078	1.078
-1.75	-1.875	0.360	0.676	1.754
-1.50	-1.625	0.704	1.322	3.075
-1.25	-1.375	1.209	2.270	5.345
-1.00	-1.125	2.197	4.125	9.470
-0.75	-0.875	3.732	7.007	16.477
-0.50	-0.625	6.068	11.393	27.870
-0.25	-0.375	8.160	15.320	43.190
0.00	-0.125	8.093	15.195	58.385
0.25	0.125	7.549	14.173	72.558
0.50	0.375	4.548	8.539	81.097
0.75	0.625	3.473	6.521	87.618
1.00	0.875	3.269	6.138	93.755
1.25	1.125	1.482	2.782	96.538
1.50	1.375	0.911	1.710	98.248
1.75	1.625	0.569	1.068	99.317
2.00	1.875	0.250	0.469	99.786
2.25	2.125	0.087	0.163	99.949
2.50	2.375	0.027	0.051	100.000
2.75	2.625	0.000	0.000	100.000
3.00	2.875	0.000	0.000	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

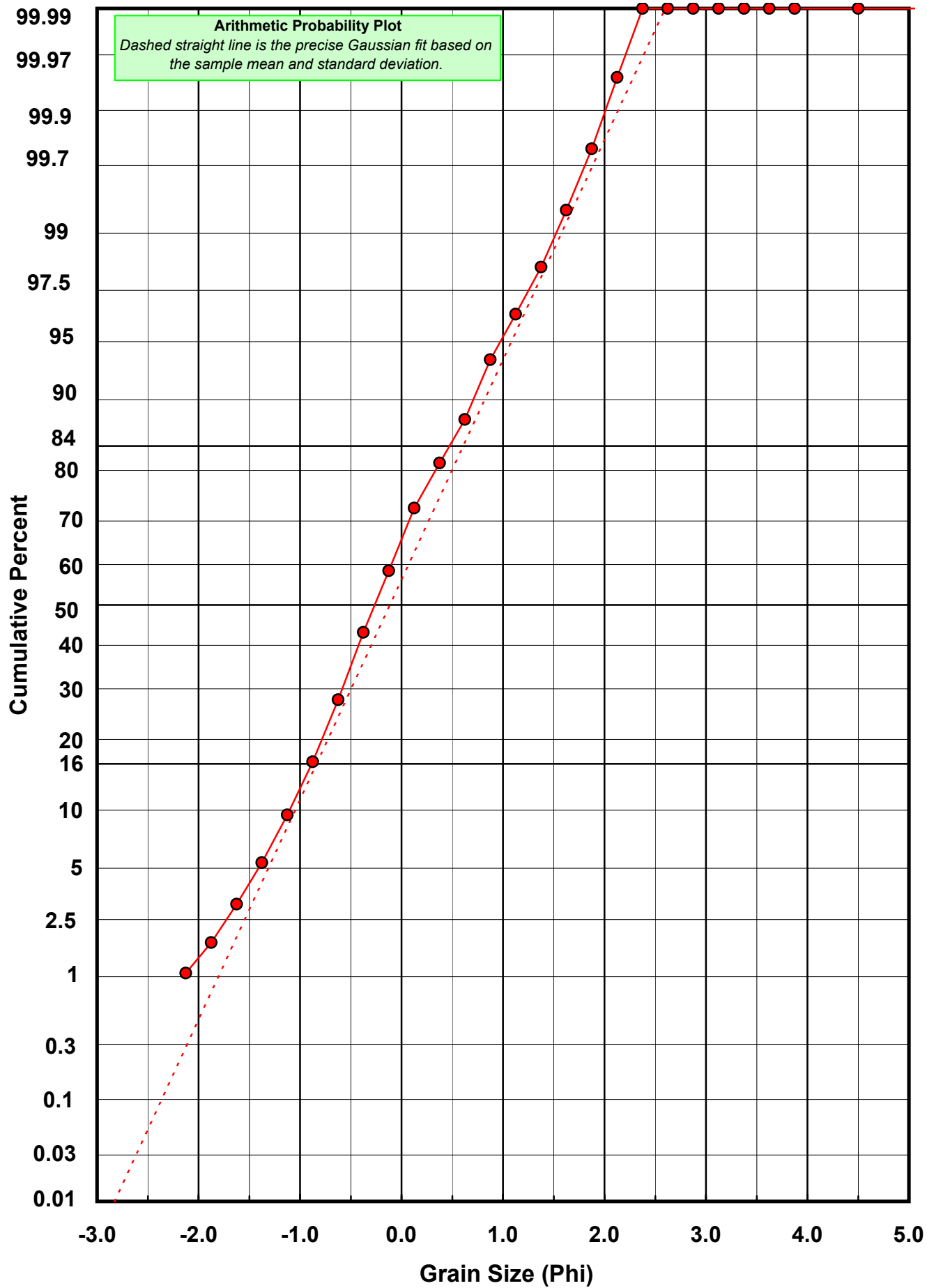
Statistical Results			
Mean:	-0.1138	phi	(1.0821 mm)
Standard Dev:	0.7285	phi-units	(0.6035 mm)
Skewness:	0.0496	dimensionless	
Kurtosis:	3.2833	dimensionless	
5th Moment:	0.1277	dimensionless	
6th Moment:	16.9850	dimensionless	
RARD *	6.4029	dimensionless	
Median	-0.2630	phi	(1.1999 mm)

\* 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-54-BB

Total Digested Mass: 33.938 grams

% Silica: 38.9 %

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	0.000	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	0.029	0.085	0.085
-0.75	-0.875	0.057	0.168	0.253
-0.50	-0.625	0.499	1.470	1.724
-0.25	-0.375	1.701	5.012	6.736
0.00	-0.125	3.876	11.421	18.157
0.25	0.125	5.333	15.714	33.871
0.50	0.375	4.121	12.143	46.013
0.75	0.625	4.119	12.137	58.150
1.00	0.875	3.966	11.686	69.836
1.25	1.125	2.392	7.048	76.884
1.50	1.375	2.174	6.406	83.290
1.75	1.625	1.756	5.174	88.464
2.00	1.875	1.570	4.626	93.090
2.25	2.125	0.997	2.938	96.028
2.50	2.375	0.679	2.001	98.029
2.75	2.625	0.419	1.235	99.263
3.00	2.875	0.160	0.471	99.735
3.25	3.125	0.051	0.150	99.885
3.50	3.375	0.020	0.059	99.944
3.75	3.625	0.010	0.029	99.973
4.00	3.875	0.009	0.027	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.7015	phi	(0.6149 mm)
Standard Dev:	0.7795	phi-units	(0.5826 mm)
Skewness:	0.6459	dimensionless	
Kurtosis:	2.8690	dimensionless	
5th Moment:	4.5448	dimensionless	
6th Moment:	14.6932	dimensionless	
RARD *	1.1112	dimensionless	
Median	0.4571	phi	(0.7284 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)

