

**Onshore Grab Sample**

**Sample:** VO-36  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/3/03  
**Splits?** N/A

**County:** Volusia  
**Latitude:** 29° 00' 44.28"  
**Longitude:** 80° 52' 48.12"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 73.778 grams  
Total Fines in Sample 0.362 grams  
Total Percent Fines 0.49 %

**Dry Sieving Summary**

Total Sample Weight 73.401 grams  
Total Digested Weight 71.231 grams  
Total Carbonate Weight 2.170 grams  
Total Silica % 97.04 %  
Total Carbonate % 2.96 %  
Carbonate/Silica Ratio 0.030

**General Comments:**

None

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: VO-36

Total Sample Mass: 73.401 grams

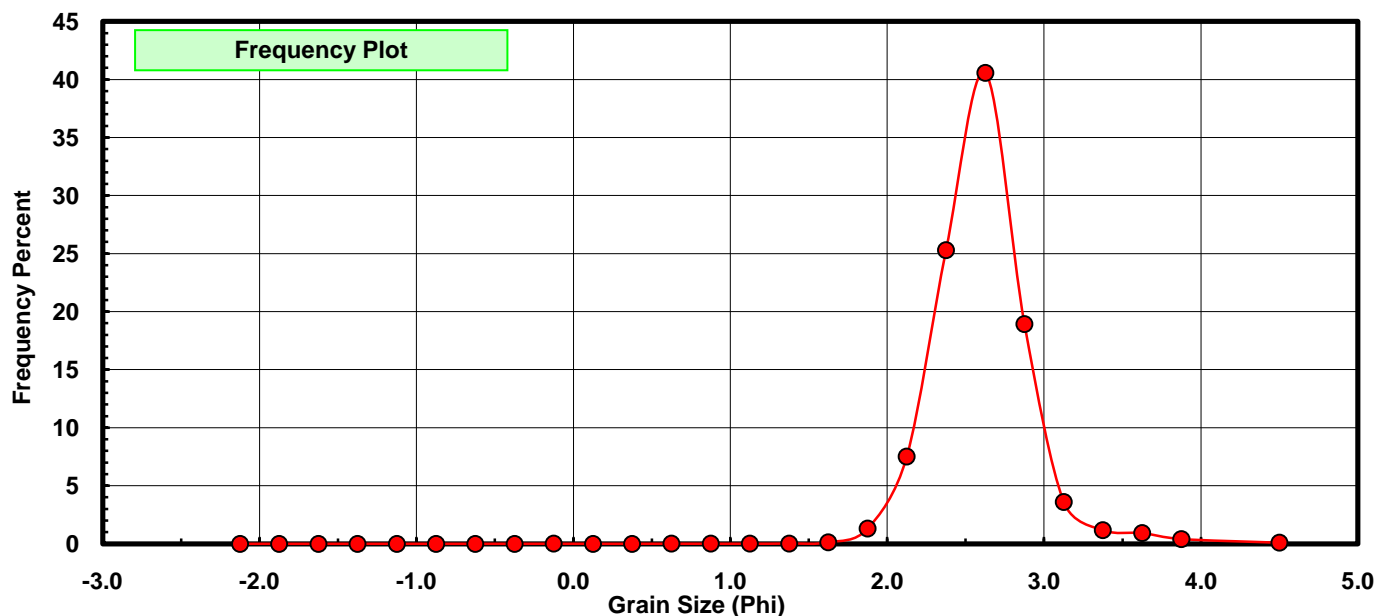
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.003	0.004	0.004
0.25	0.125	0.000	0.000	0.004
0.50	0.375	0.000	0.000	0.004
0.75	0.625	0.004	0.005	0.010
1.00	0.875	0.003	0.004	0.014
1.25	1.125	0.004	0.005	0.019
1.50	1.375	0.018	0.025	0.044
1.75	1.625	0.089	0.121	0.165
2.00	1.875	0.961	1.309	1.474
2.25	2.125	5.521	7.522	8.996
2.50	2.375	18.565	25.293	34.288
2.75	2.625	29.782	40.574	74.863
3.00	2.875	13.890	18.923	93.786
3.25	3.125	2.650	3.610	97.396
3.50	3.375	0.863	1.176	98.572
3.75	3.625	0.680	0.926	99.499
4.00	3.875	0.301	0.410	99.909
5.00	4.500	0.067	0.091	100.000

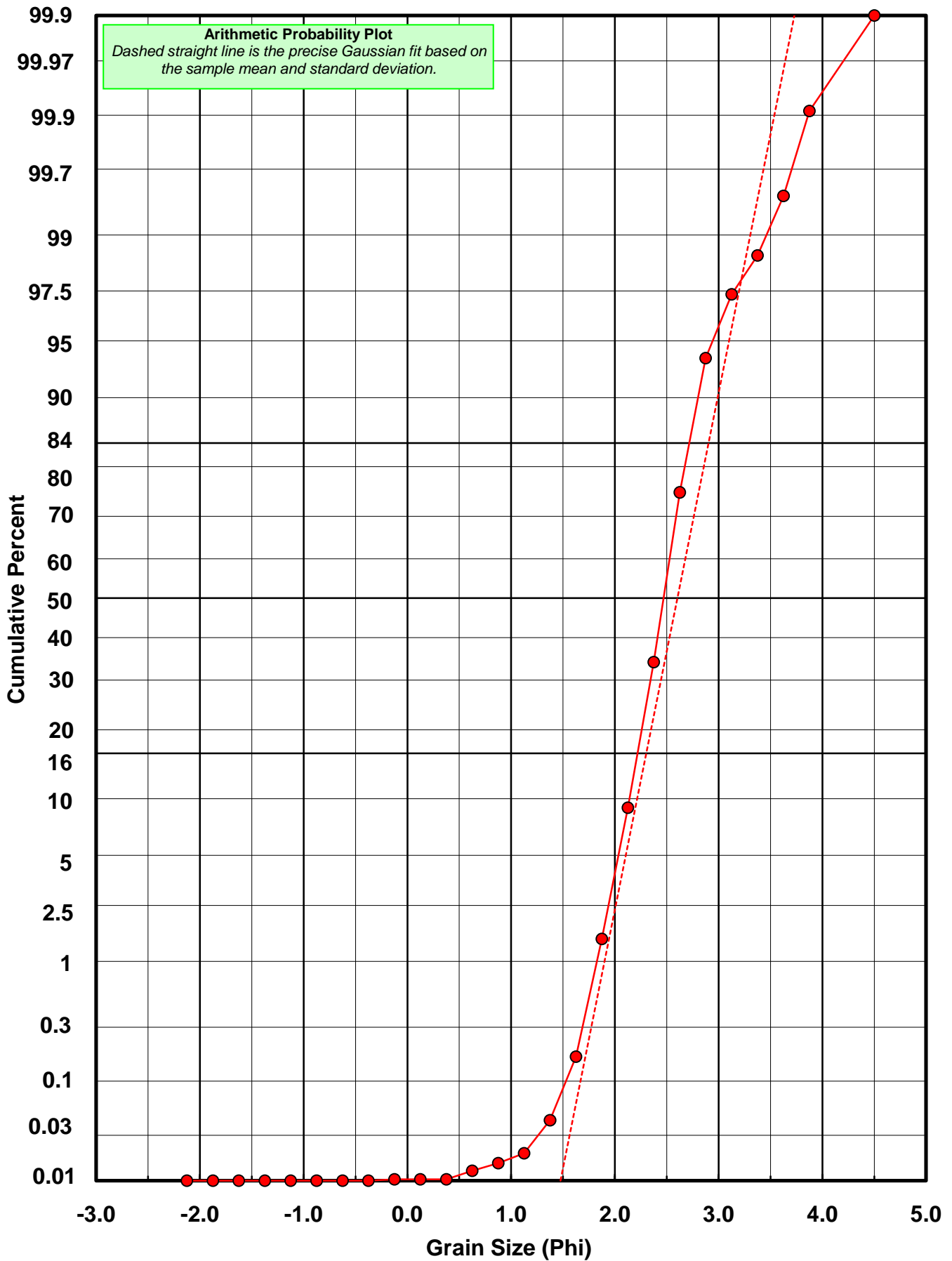
Statistical Results			
Mean:	2.6027	phi	(0.1646 mm)
Standard Dev:	0.3024	phi-units	(0.8109 mm)
Skewness:	0.7149	dimensionless	
Kurtosis:	6.5777	dimensionless	
5th Moment:	14.4610	dimensionless	
6th Moment:	133.0723	dimensionless	
RARD *	0.1162	dimensionless	
Median	2.4718	phi	(0.1803 mm)

\* 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-36

Total Carbonate Mass: 7.459 grams

% Carbonate: 3.0 %

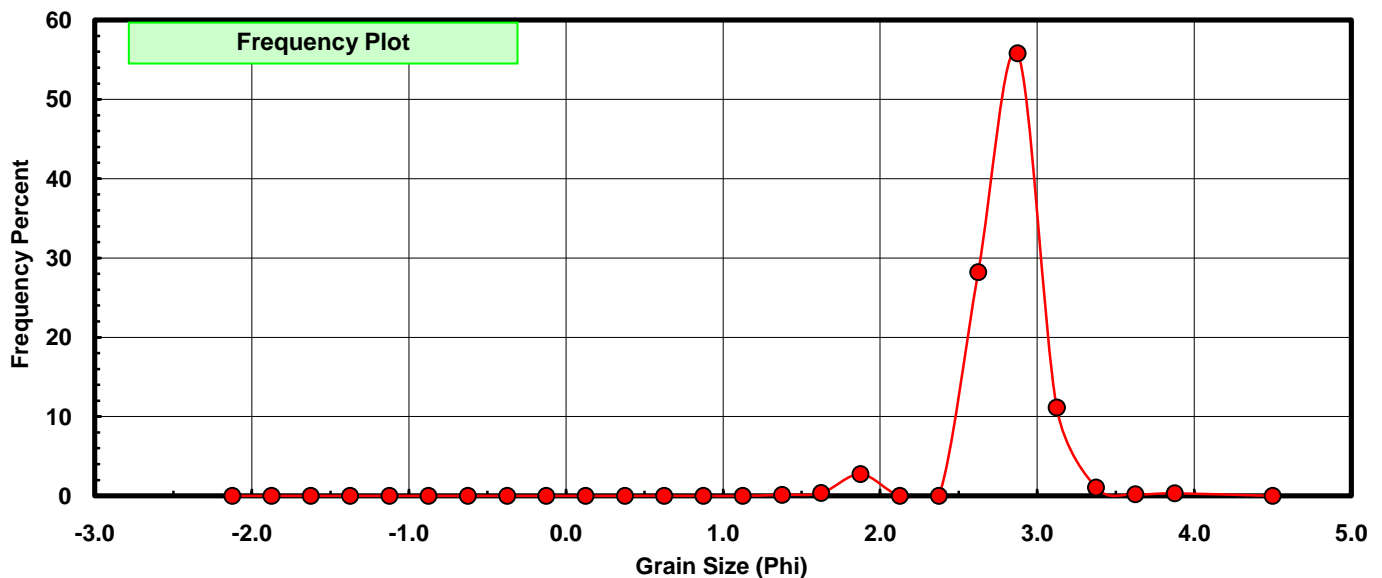
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-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	0.001	0.013	0.013
1.00	0.875	0.000	0.000	0.013
1.25	1.125	0.000	0.000	0.013
1.50	1.375	0.010	0.134	0.147
1.75	1.625	0.027	0.362	0.509
2.00	1.875	0.204	2.735	3.244
2.25	2.125	0.000	0.000	3.244
2.50	2.375	0.000	0.000	3.244
2.75	2.625	2.103	28.194	31.439
3.00	2.875	4.164	55.825	87.264
3.25	3.125	0.831	11.141	98.405
3.50	3.375	0.080	1.073	99.477
3.75	3.625	0.015	0.201	99.678
4.00	3.875	0.024	0.322	100.000
5.00	4.500	0.000	0.000	100.000

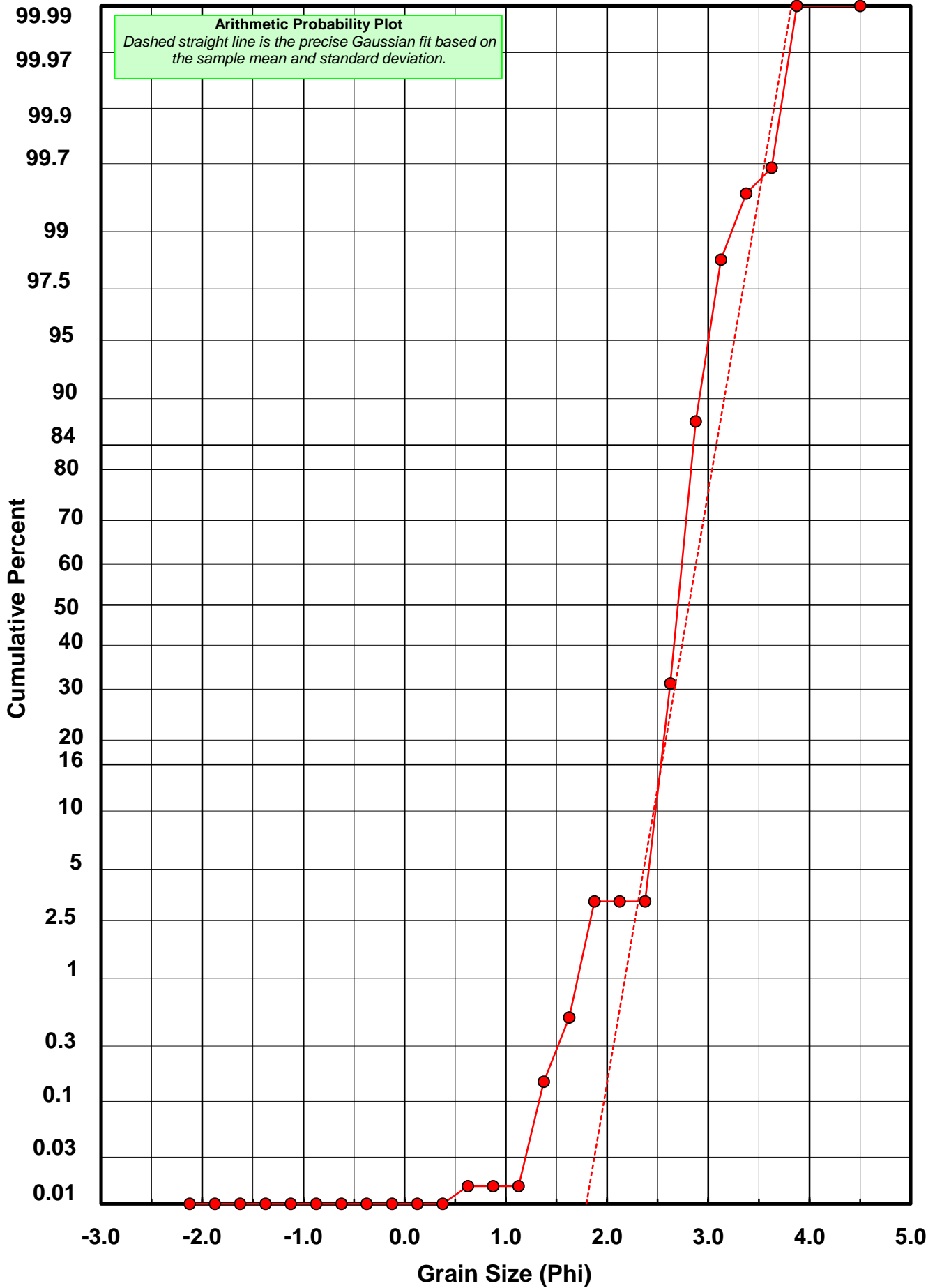
Statistical Results			
Mean:	2.8083	phi	(0.1428 mm)
Standard Dev:	0.2716	phi-units	(0.8284 mm)
Skewness:	-1.4212	dimensionless	
Kurtosis:	9.3774	dimensionless	
5th Moment:	-28.4744	dimensionless	
6th Moment:	172.6389	dimensionless	
RARD *	0.0967	dimensionless	
Median	2.7081	phi	(0.153 mm)

\* 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-36

Total Digested Mass: 71.195 grams

% Silica: 97.0 %

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	0.000	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	0.006	0.008	0.008
0.25	0.125	0.000	0.000	0.008
0.50	0.375	0.000	0.000	0.008
0.75	0.625	0.003	0.004	0.013
1.00	0.875	0.003	0.004	0.017
1.25	1.125	0.004	0.006	0.022
1.50	1.375	0.008	0.011	0.034
1.75	1.625	0.062	0.087	0.121
2.00	1.875	0.757	1.063	1.184
2.25	2.125	6.824	9.585	10.769
2.50	2.375	22.579	31.714	42.483
2.75	2.625	27.679	38.878	81.361
3.00	2.875	9.726	13.661	95.022
3.25	3.125	1.819	2.555	97.577
3.50	3.375	0.783	1.100	98.677
3.75	3.625	0.665	0.934	99.611
4.00	3.875	0.277	0.389	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5577	phi	(0.1698 mm)
Standard Dev:	0.2917	phi-units	(0.817 mm)
Skewness:	0.7818	dimensionless	
Kurtosis:	6.3361	dimensionless	
5th Moment:	7.9738	dimensionless	
6th Moment:	125.2950	dimensionless	
RARD *	0.1140	dimensionless	
Median	2.4233	phi	(0.1864 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)

