

## **Onshore Grab Sample**

**Sample:** NA-13-SS  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 12/4/02  
**Splits?** N/A

**County:** Nassau  
**Latitude:** 30° 32' 12.8"  
**Longitude:** 81° 26' 16.2"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

### **Fine Data Summary**

Total Sample Weight	47.229 grams
Total Fines in Sample	0.312 grams
Total Percent Fines	0.66 %

### **Dry Sieving Summary**

Total Sample Weight	46.985 grams
Total Digested Weight	45.788 grams
Total Carbonate Weight	1.197 grams
Total Silica %	97.45 %
Total Carbonate %	2.55 %
Carbonate/Silica Ratio	0.026

### **General Comments:**

None

### **Description**

Worked By: C. Fischler  
Reviewed and Edited By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-13-SS

Total Sample Mass: 46.985 grams

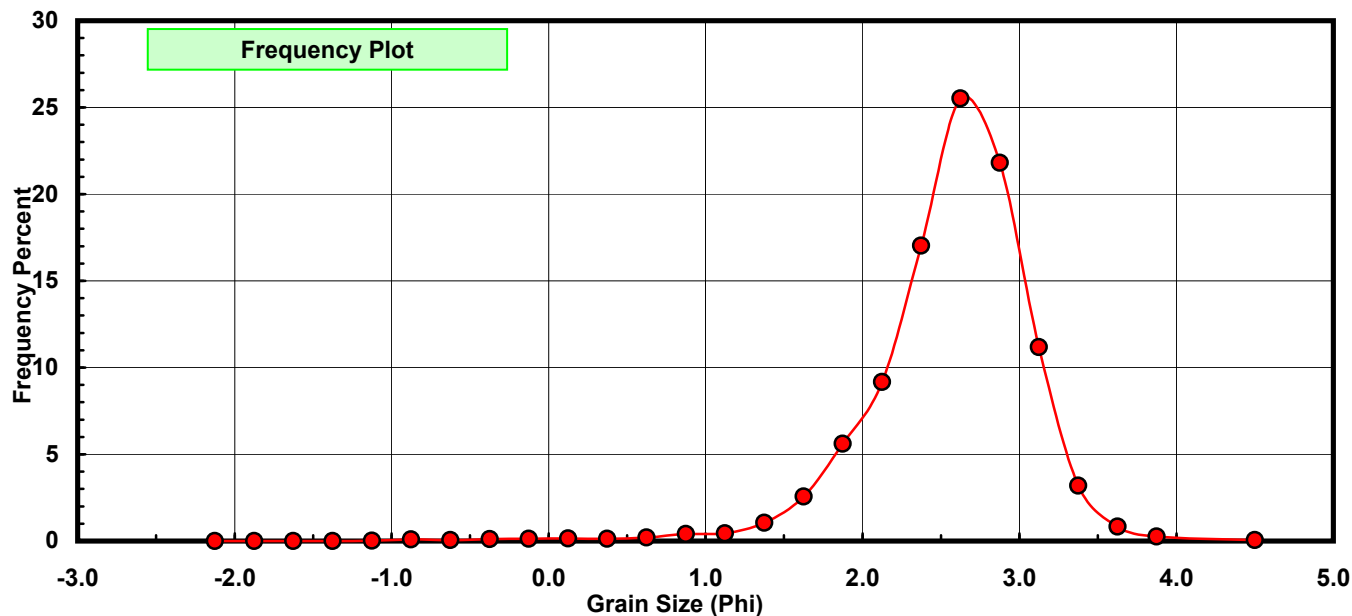
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.009	0.019	0.019
-0.75	-0.875	0.041	0.087	0.106
-0.50	-0.625	0.028	0.060	0.166
-0.25	-0.375	0.055	0.117	0.283
0.00	-0.125	0.059	0.126	0.409
0.25	0.125	0.069	0.147	0.555
0.50	0.375	0.058	0.123	0.679
0.75	0.625	0.094	0.200	0.879
1.00	0.875	0.187	0.398	1.277
1.25	1.125	0.212	0.451	1.728
1.50	1.375	0.495	1.054	2.782
1.75	1.625	1.204	2.563	5.344
2.00	1.875	2.634	5.606	10.950
2.25	2.125	4.309	9.171	20.121
2.50	2.375	8.001	17.029	37.150
2.75	2.625	11.988	25.515	62.665
3.00	2.875	10.247	21.809	84.474
3.25	3.125	5.255	11.184	95.658
3.50	3.375	1.501	3.195	98.853
3.75	3.625	0.388	0.826	99.679
4.00	3.875	0.122	0.260	99.938
5.00	4.500	0.029	0.062	100.000

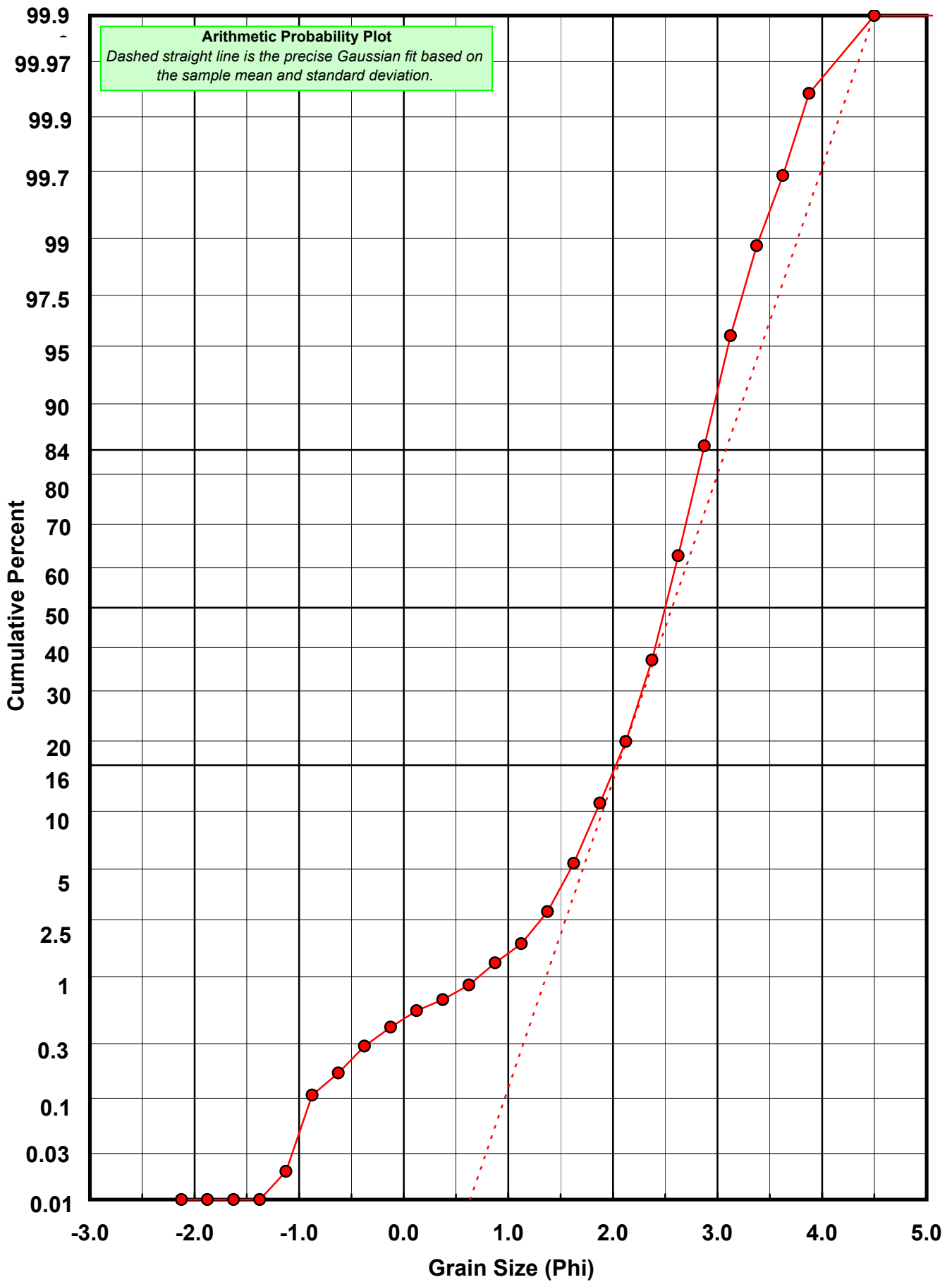
Statistical Results			
Mean:	2.5659	phi	(0.1689 mm)
Standard Dev:	0.5186	phi-units	(0.698 mm)
Skewness:	-1.4953	dimensionless	
Kurtosis:	9.1112	dimensionless	
5th Moment:	-41.1482	dimensionless	
6th Moment:	241.9864	dimensionless	
RARD *	0.2021	dimensionless	
Median	2.5009	phi	(0.1767 mm)

\* 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: NA-13-SS

Total Carbonate Mass: 1.393 grams

% Carbonate: 2.5 %

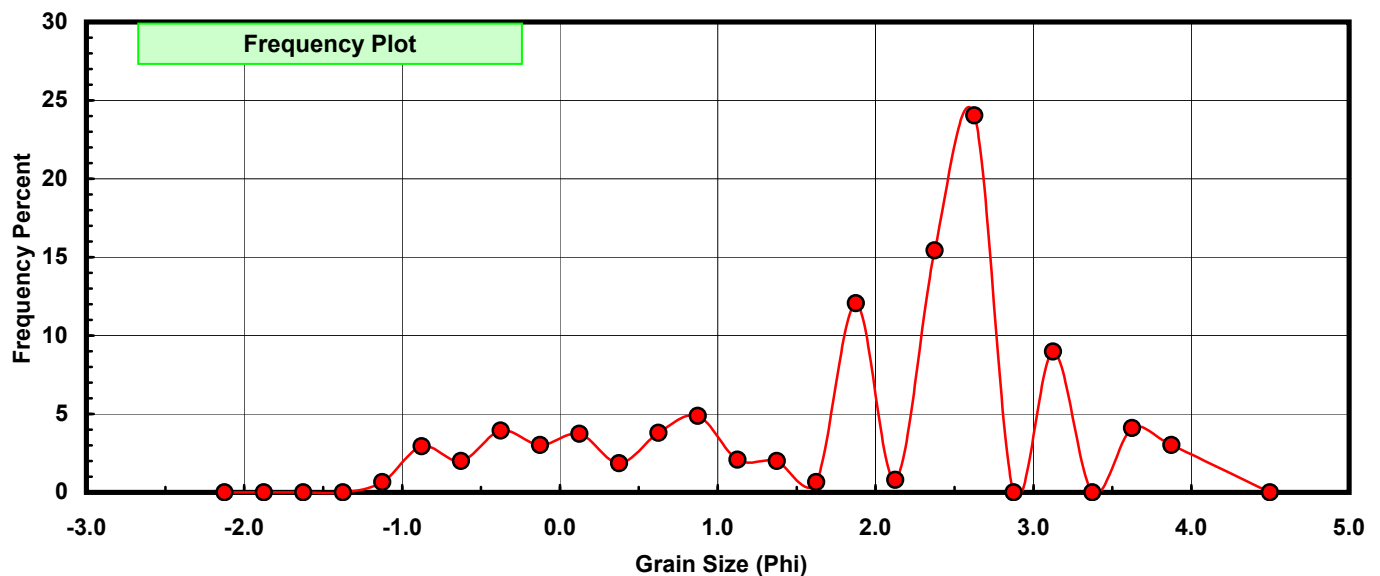
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.009	0.646	0.646
-0.75	-0.875	0.041	2.943	3.589
-0.50	-0.625	0.028	2.010	5.599
-0.25	-0.375	0.055	3.948	9.548
0.00	-0.125	0.042	3.015	12.563
0.25	0.125	0.052	3.733	16.296
0.50	0.375	0.026	1.866	18.162
0.75	0.625	0.053	3.805	21.967
1.00	0.875	0.068	4.882	26.849
1.25	1.125	0.029	2.082	28.930
1.50	1.375	0.028	2.010	30.940
1.75	1.625	0.009	0.646	31.587
2.00	1.875	0.168	12.060	43.647
2.25	2.125	0.011	0.790	44.436
2.50	2.375	0.215	15.434	59.871
2.75	2.625	0.335	24.049	83.920
3.00	2.875	0.000	0.000	83.920
3.25	3.125	0.125	8.973	92.893
3.50	3.375	0.000	0.000	92.893
3.75	3.625	0.057	4.092	96.985
4.00	3.875	0.042	3.015	100.000
5.00	4.500	0.000	0.000	100.000

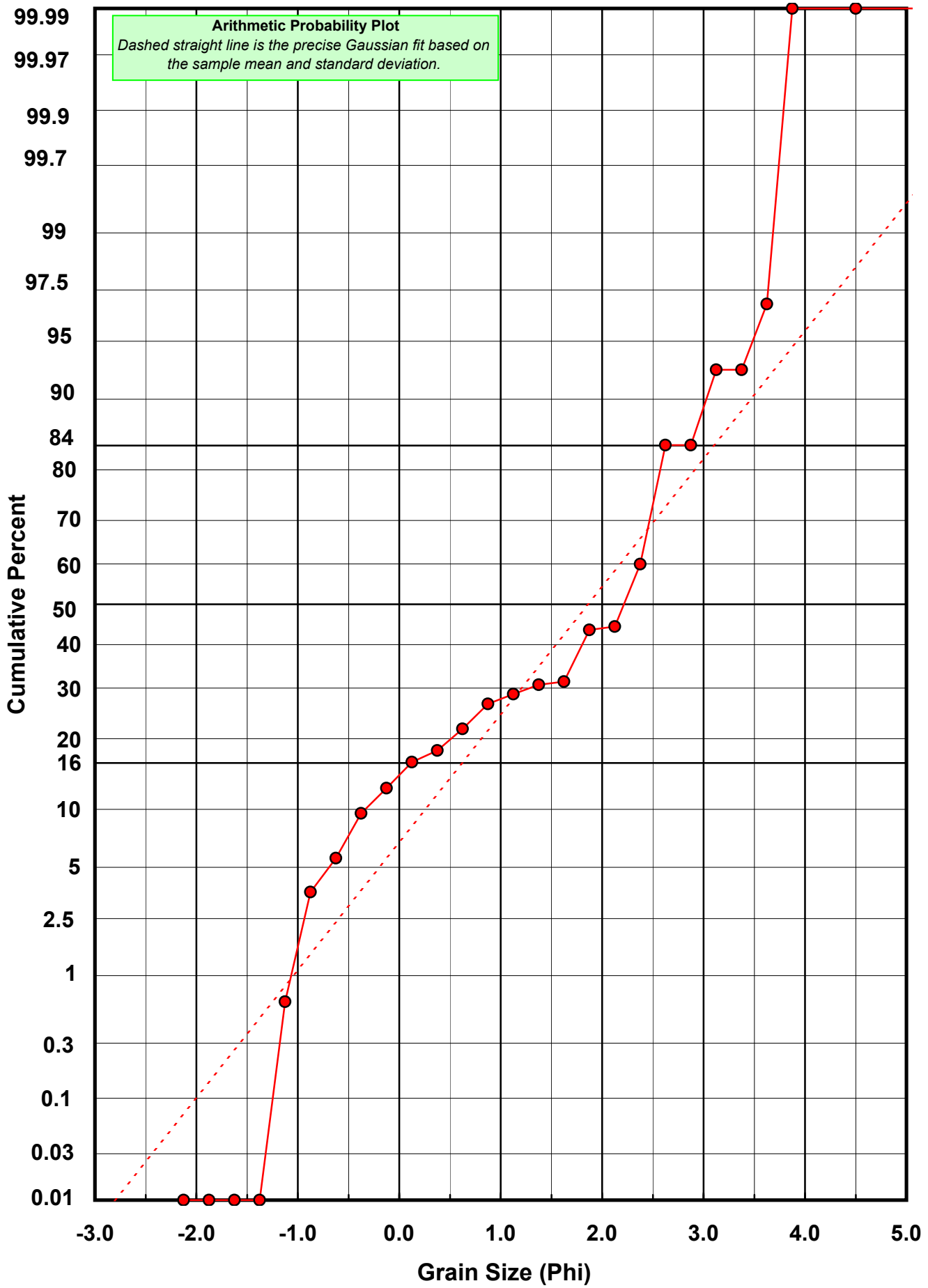
Statistical Results			
Mean:	1.8619	phi	(0.2751 mm)
Standard Dev:	1.2525	phi-units	(0.4197 mm)
Skewness:	-0.6976	dimensionless	
Kurtosis:	2.5099	dimensionless	
5th Moment:	-3.2272	dimensionless	
6th Moment:	8.6951	dimensionless	
RARD *	0.6727	dimensionless	
Median	2.2151	phi	(0.2154 mm)

\* 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: NA-13-SS

Total Digested Mass: 45.763 grams

% Silica: 97.5 %

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	0.017	0.037	0.037
0.25	0.125	0.017	0.037	0.074
0.50	0.375	0.032	0.070	0.144
0.75	0.625	0.041	0.090	0.234
1.00	0.875	0.119	0.260	0.494
1.25	1.125	0.183	0.400	0.894
1.50	1.375	0.467	1.020	1.914
1.75	1.625	1.195	2.611	4.525
2.00	1.875	2.466	5.389	9.914
2.25	2.125	4.298	9.392	19.306
2.50	2.375	7.786	17.014	36.320
2.75	2.625	11.653	25.464	61.784
3.00	2.875	10.361	22.641	84.424
3.25	3.125	5.130	11.210	95.634
3.50	3.375	1.587	3.468	99.102
3.75	3.625	0.331	0.723	99.825
4.00	3.875	0.080	0.175	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5884	phi	(0.1663 mm)
Standard Dev:	0.4589	phi-units	(0.7275 mm)
Skewness:	-0.7806	dimensionless	
Kurtosis:	4.7289	dimensionless	
5th Moment:	-12.3933	dimensionless	
6th Moment:	61.2142	dimensionless	
RARD *	0.1773	dimensionless	
Median	2.5093	phi	(0.1756 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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> 1.33	Poor homogeneity (e.g., glacial)

