

Quality Control Statistical Summary

Onshore Grab Sample: NA-10-SS

Sample Taken By: J. Ladner **Latitude:** 30° 34' 49.3"
Sample Taken On: 12/04/02 **Longitude:** 81° 26' 33.7"
County: Nassau **Datum:** WGS 84

Statistical Results: Pre-CaCO3		
	Duplicate	Original
Mean:	2.2253 phi (0.2139 mm)	2.3108 phi (0.2016 mm)
Standard Dev:	0.7003 phi-units (0.6154 mm)	0.6820 phi-units (0.6233 mm)
Skewness:	-0.4249 dimensionless	-0.4297 dimensionless
Kurtosis:	2.6153 dimensionless	2.2428 dimensionless
5th Moment:	-4.6893 dimensionless	-2.2747 dimensionless
6th Moment:	22.6416 dimensionless	9.3015 dimensionless
RARD*:	0.3147 dimensionless	0.2952 dimensionless
Median:	2.2619 phi (0.2085 mm)	2.3806 phi (0.192 mm)

Statistical Results: CaCO3		
	Duplicate	Original
Mean:	1.5798 phi (0.3345 mm)	1.8082 phi (0.2855 mm)
Standard Dev:	0.8991 phi-units (0.5362 mm)	0.9407 phi-units (0.521 mm)
Skewness:	-0.2876 dimensionless	0.4180 dimensionless
Kurtosis:	3.7447 dimensionless	2.2765 dimensionless
5th Moment:	-5.0787 dimensionless	1.1758 dimensionless
6th Moment:	24.6067 dimensionless	7.3946 dimensionless
RARD*:	0.5691 dimensionless	0.5203 dimensionless
Median:	1.3788 phi (0.3845 mm)	1.3552 phi (0.3909 mm)

Statistical Results: Post-CaCO3		
	Duplicate	Original
Mean:	2.2635 phi (0.2083 mm)	2.3350 phi (0.1982 mm)
Standard Dev:	0.6737 phi-units (0.6269 mm)	0.6573 phi-units (0.6341 mm)
Skewness:	-0.2852 dimensionless	-0.4244 dimensionless
Kurtosis:	1.9653 dimensionless	2.1372 dimensionless
5th Moment:	-0.9627 dimensionless	-1.7318 dimensionless
6th Moment:	5.8099 dimensionless	6.9957 dimensionless
RARD*:	0.2976 dimensionless	0.2815 dimensionless
Median:	2.3014 phi (0.2029 mm)	2.3946 phi (0.1902 mm)

Additional Data	
Total Fines	
Original:	0.38 %
Duplicate:	0.96 %
Total Carbonates	
Original:	4.33 %
Duplicate:	4.76 %

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	
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)

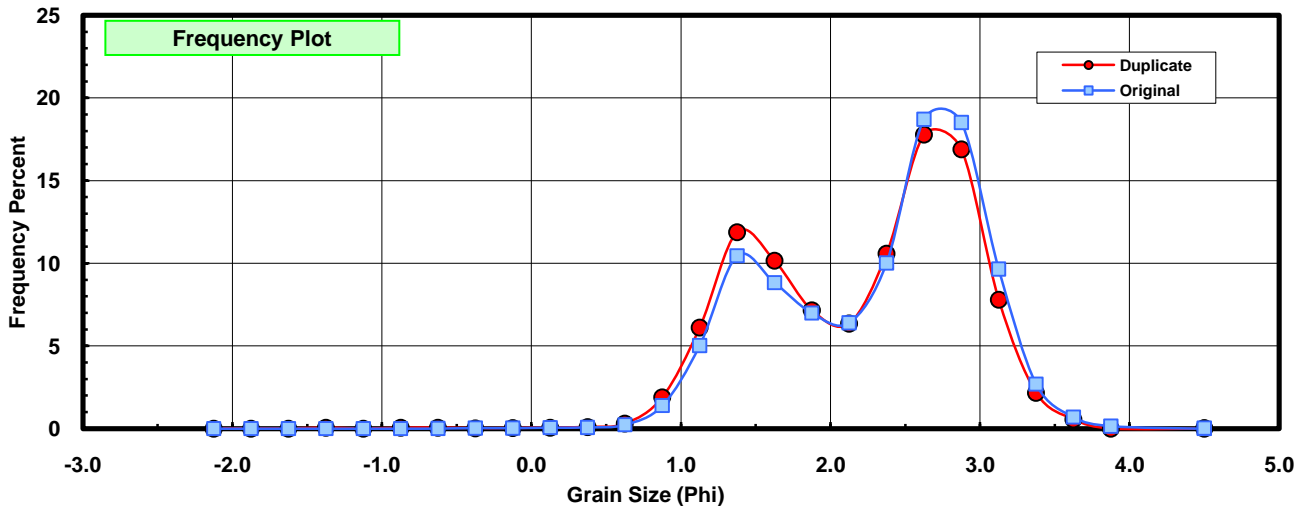
Pre-Digestion Grain Size Distribution

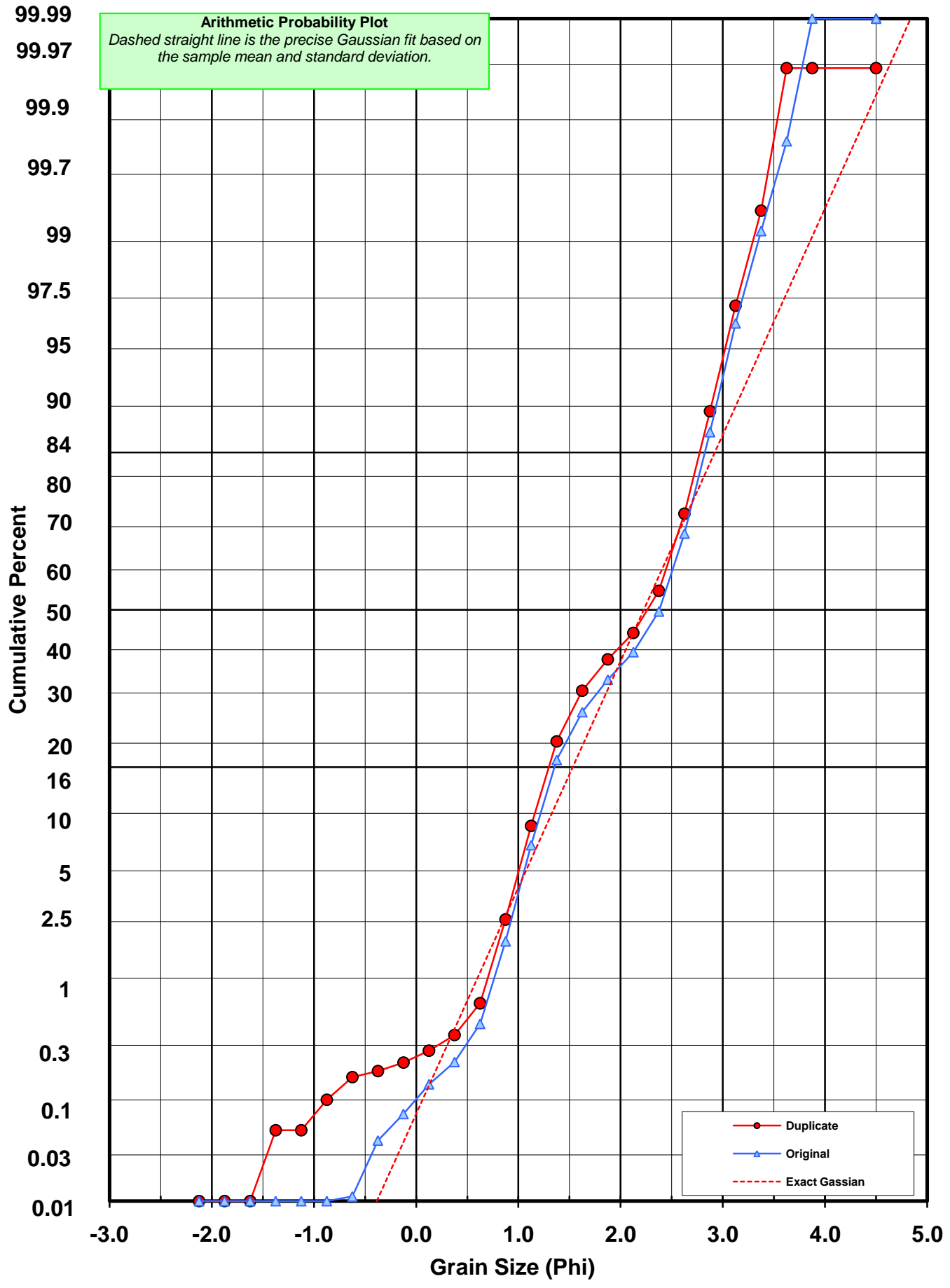
Onshore Grab Sample: NA-10-SS

Total Duplicate Sample Mass: 44.868 grams

Total Original Sample Mass: 46.694 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight of Dupl (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000	0.000	0.000	0.000
-1.25	-1.375	0.024	0.053	0.053	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.053	0.000	0.000	0.000
-0.75	-0.875	0.021	0.047	0.100	0.000	0.000	0.000
-0.50	-0.625	0.026	0.058	0.158	0.003	0.006	0.006
-0.25	-0.375	0.009	0.020	0.178	0.017	0.036	0.043
0.00	-0.125	0.015	0.033	0.212	0.015	0.032	0.075
0.25	0.125	0.025	0.056	0.267	0.029	0.062	0.137
0.50	0.375	0.043	0.096	0.363	0.036	0.077	0.214
0.75	0.625	0.132	0.294	0.657	0.110	0.236	0.450
1.00	0.875	0.851	1.897	2.554	0.651	1.395	1.845
1.25	1.125	2.739	6.105	8.659	2.349	5.032	6.877
1.50	1.375	5.333	11.886	20.545	4.881	10.457	17.333
1.75	1.625	4.554	10.150	30.694	4.121	8.828	26.162
2.00	1.875	3.212	7.159	37.853	3.263	6.990	33.152
2.25	2.125	2.850	6.352	44.205	2.989	6.403	39.555
2.50	2.375	4.747	10.580	54.785	4.680	10.026	49.581
2.75	2.625	7.975	17.774	72.560	8.734	18.711	68.292
3.00	2.875	7.575	16.883	89.442	8.643	18.516	86.808
3.25	3.125	3.498	7.796	97.239	4.504	9.649	96.457
3.50	3.375	0.973	2.169	99.407	1.256	2.691	99.147
3.75	3.625	0.251	0.559	99.967	0.326	0.698	99.846
4.00	3.875	0.000	0.000	99.967	0.072	0.154	100.000
5.00	4.500	0.000	0.000	99.967	0.000	0.000	100.000
5.00	4.500	0.015	0.033	100.000	0.015	0.032	100.032



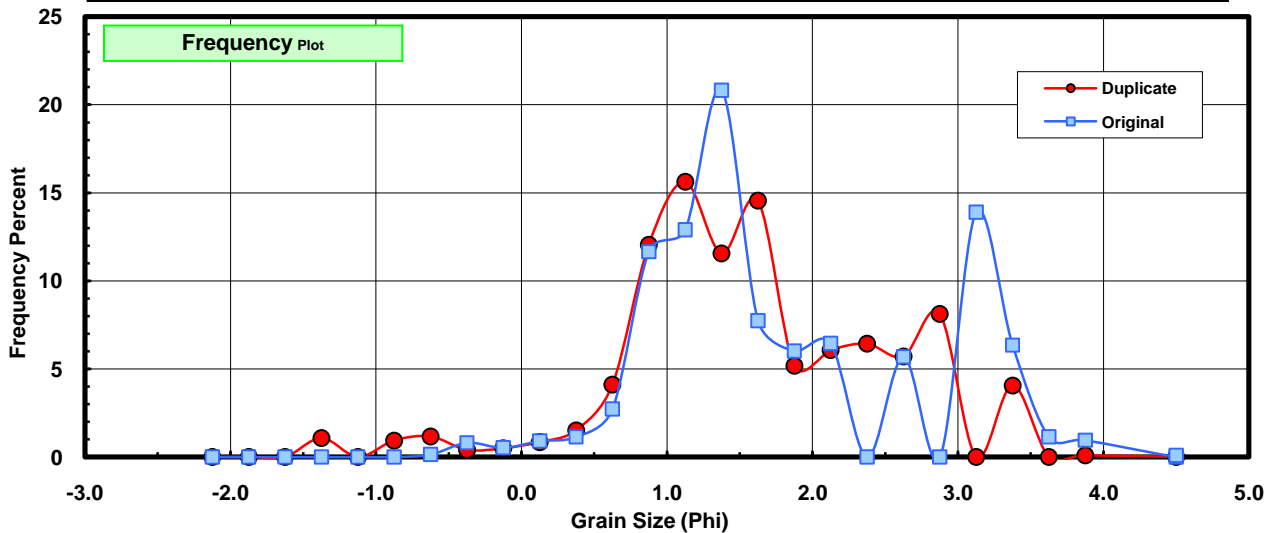


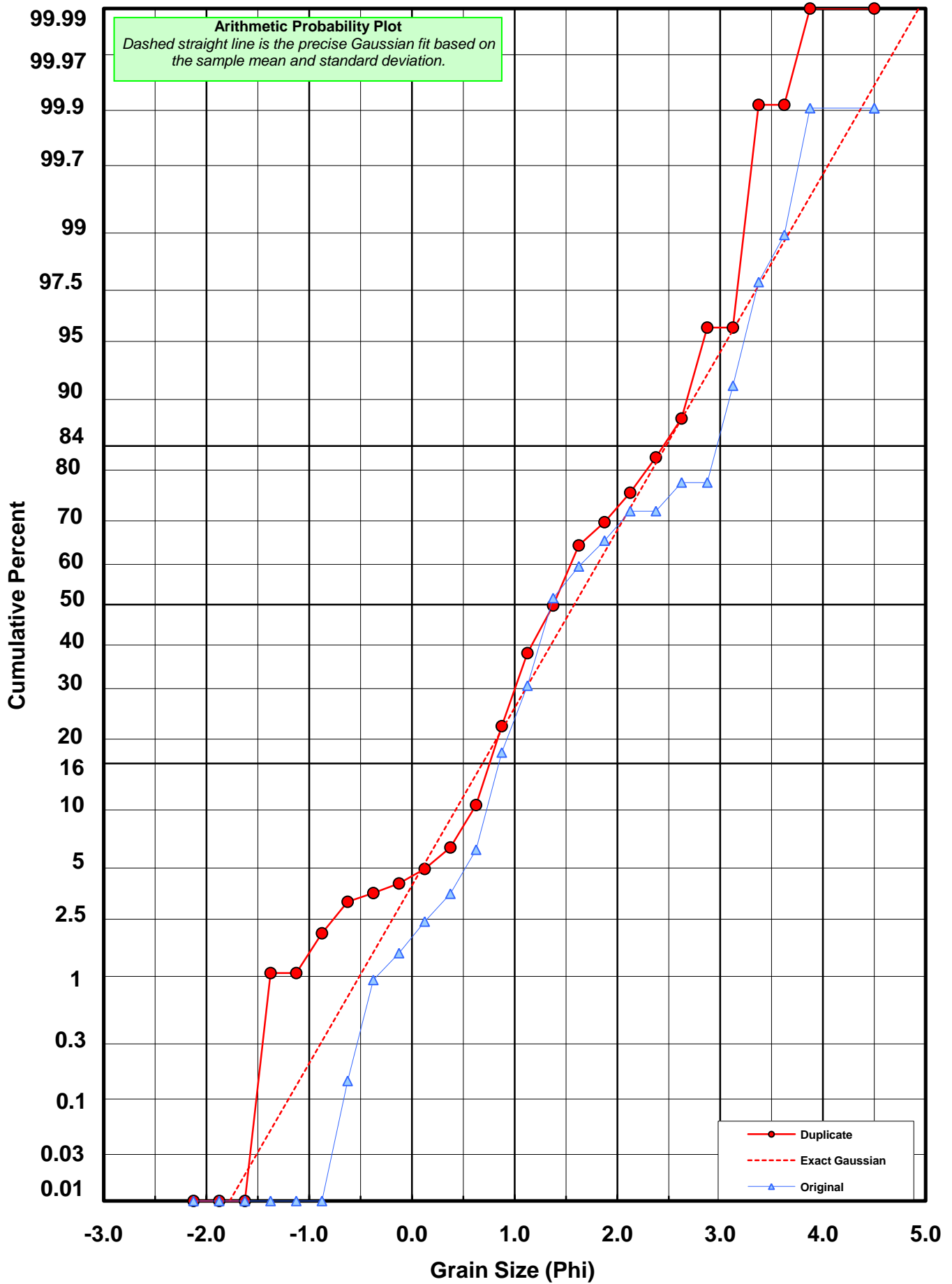
Carbonate Grain Size Distribution

Onshore Grab Sample: NA-10-SS

Total Duplicate Carbonate Mass: 2.240 grams
% Carbonate in Duplicate: 4.8 %
Total Original Carbonate Mass: 2.093 grams
% Carbonate in Original: 4.3 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight of Dupl (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000	0.000	0.000	0.000
-1.25	-1.375	0.024	1.071	1.071	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	1.071	0.000	0.000	0.000
-0.75	-0.875	0.021	0.938	2.009	0.000	0.000	0.000
-0.50	-0.625	0.026	1.161	3.170	0.003	0.143	0.143
-0.25	-0.375	0.009	0.402	3.571	0.017	0.812	0.956
0.00	-0.125	0.011	0.491	4.063	0.011	0.526	1.481
0.25	0.125	0.019	0.848	4.911	0.019	0.908	2.389
0.50	0.375	0.034	1.518	6.429	0.024	1.147	3.536
0.75	0.625	0.092	4.107	10.536	0.057	2.723	6.259
1.00	0.875	0.270	12.054	22.589	0.244	11.658	17.917
1.25	1.125	0.350	15.625	38.214	0.270	12.900	30.817
1.50	1.375	0.259	11.563	49.777	0.436	20.831	51.648
1.75	1.625	0.326	14.554	64.330	0.162	7.740	59.388
2.00	1.875	0.116	5.179	69.509	0.126	6.020	65.409
2.25	2.125	0.136	6.071	75.580	0.135	6.450	71.859
2.50	2.375	0.144	6.429	82.009	0.000	0.000	71.859
2.75	2.625	0.128	5.714	87.723	0.119	5.686	77.544
3.00	2.875	0.182	8.125	95.848	0.000	0.000	77.544
3.25	3.125	0.000	0.000	95.848	0.291	13.903	91.448
3.50	3.375	0.091	4.062	99.911	0.133	6.355	97.802
3.75	3.625	0.000	0.000	99.911	0.024	1.147	98.949
4.00	3.875	0.002	0.089	100.000	0.020	0.956	99.904
5.00	4.500	0.000	0.000	100.000	0.000	0.000	99.904
5.00	4.500	0.000	0.000	100.000	0.002	0.096	100.000





Post-Digestion Grain Size Distribution

Onshore Grab Sample: NA-10-SS

Total Duplicate Digested Mass: 42.778 grams
% Silica in Duplicate: 95.2 %
Total Original Digested Mass: 44.671 grams
% Silica in Original: 95.7 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000	0.000	0.000	0.000
0.00	-0.125	0.004	0.009	0.009	0.004	0.009	0.009
0.25	0.125	0.006	0.014	0.023	0.010	0.022	0.031
0.50	0.375	0.009	0.021	0.044	0.012	0.027	0.058
0.75	0.625	0.040	0.094	0.138	0.053	0.119	0.177
1.00	0.875	0.581	1.358	1.496	0.407	0.911	1.088
1.25	1.125	2.389	5.585	7.081	2.079	4.654	5.742
1.50	1.375	5.074	11.861	18.942	4.445	9.951	15.693
1.75	1.625	4.228	9.884	28.826	3.959	8.863	24.555
2.00	1.875	3.096	7.237	36.063	3.137	7.022	31.578
2.25	2.125	2.714	6.344	42.407	2.854	6.389	37.966
2.50	2.375	4.603	10.760	53.168	4.700	10.521	48.488
2.75	2.625	7.847	18.344	71.511	8.615	19.285	67.773
3.00	2.875	7.393	17.282	88.793	8.693	19.460	87.233
3.25	3.125	3.569	8.343	97.136	4.213	9.431	96.665
3.50	3.375	0.882	2.062	99.198	1.123	2.514	99.178
3.75	3.625	0.280	0.655	99.853	0.302	0.676	99.854
4.00	3.875	0.048	0.112	99.965	0.052	0.116	99.971
5.00	4.500	0.000	0.000	99.965	0.000	0.000	99.971
5.00	4.500	0.015	0.035	100.000	0.013	0.029	100.000

