Quality Control Statistical Summary
Onshore Grab Sample: NA-07-SS

Sample Taken By:	J. Ladner	**Latitude:**	30° 37' 25.6"
Sample Taken On:	12/04/02	**Longitude:**	81° 26' 18.7"
County:	Nassau	**Datum:**	WGS 84

Statistical Results: Pre-CaCO3						
	Duplicate			**Original**		
Mean:	2.0678	phi	(0.2385 mm)	2.0414	phi	(0.2429 mm)
Standard Dev:	0.4246	phi-units	(0.7451 mm)	0.5575	phi-units	(0.6795 mm)
Skewness:	-0.1645	dimensionless		-0.8766	dimensionless	
Kurtosis:	3.8071	dimensionless		5.3679	dimensionless	
5th Moment:	-6.5399	dimensionless		-17.2047	dimensionless	
6th Moment:	71.2204	dimensionless		90.8254	dimensionless	
RARD*:	0.2053	dimensionless		0.2731	dimensionless	
Median:	1.9475	phi	(0.2593 mm)	1.9549	phi	(0.2579 mm)

Statistical Results: CaCO3						
	Duplicate			**Original**		
Mean:	1.7592	phi	(0.2954 mm)	1.4581	phi	(0.364 mm)
Standard Dev:	0.5816	phi-units	(0.6682 mm)	1.0291	phi-units	(0.49 mm)
Skewness:	-1.2406	dimensionless		-0.4970	dimensionless	
Kurtosis:	9.8174	dimensionless		2.8136	dimensionless	
5th Moment:	-27.3996	dimensionless		-3.5940	dimensionless	
6th Moment:	203.5256	dimensionless		13.3442	dimensionless	
RARD*:	0.3306	dimensionless		0.7058	dimensionless	
Median:	1.5949	phi	(0.331 mm)	1.6272	phi	(0.3237 mm)

Statistical Results: Post-CaCO3						
	Duplicate			**Original**		
Mean:	2.0763	phi	(0.2371 mm)	2.0682	phi	(0.2385 mm)
Standard Dev:	0.4179	phi-units	(0.7485 mm)	0.5082	phi-units	(0.7031 mm)
Skewness:	0.0057	dimensionless		-0.4484	dimensionless	
Kurtosis:	2.8775	dimensionless		3.5241	dimensionless	
5th Moment:	0.9527	dimensionless		-5.6571	dimensionless	
6th Moment:	17.9881	dimensionless		30.7124	dimensionless	
RARD*:	0.2012	dimensionless		0.2457	dimensionless	
Median:	1.9507	phi	(0.2587 mm)	1.9735	phi	(0.2546 mm)

Additional Data	
Total Fines	
Original:	0.49 %
Duplicate:	1.12 %
Total Carbonates	
Original:	3.93 %
Duplicate:	2.14 %

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)

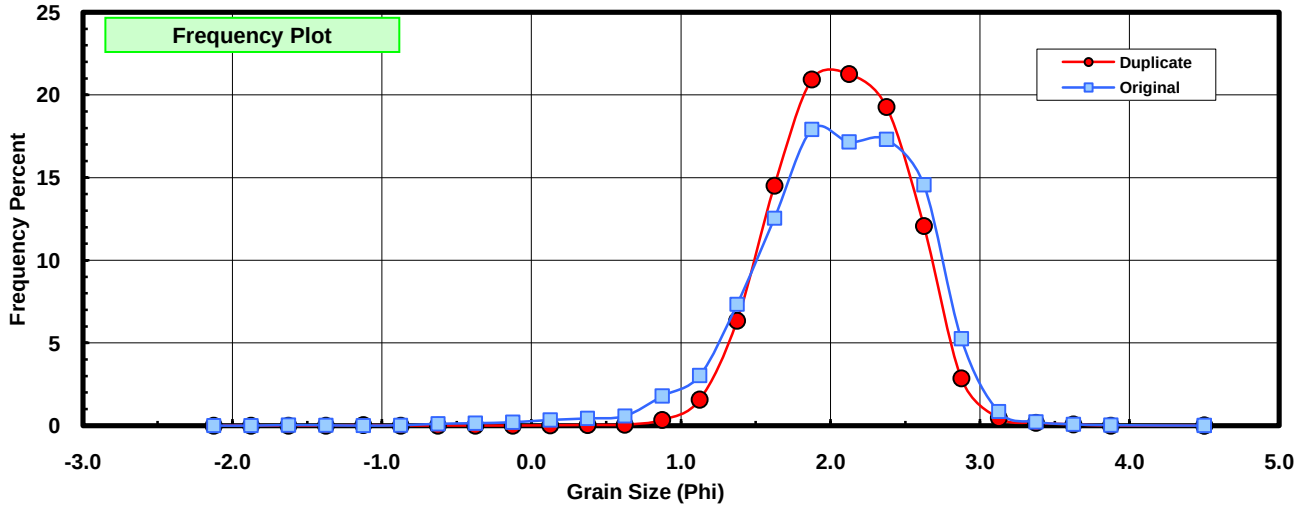
Pre-Digestion Grain Size Distribution

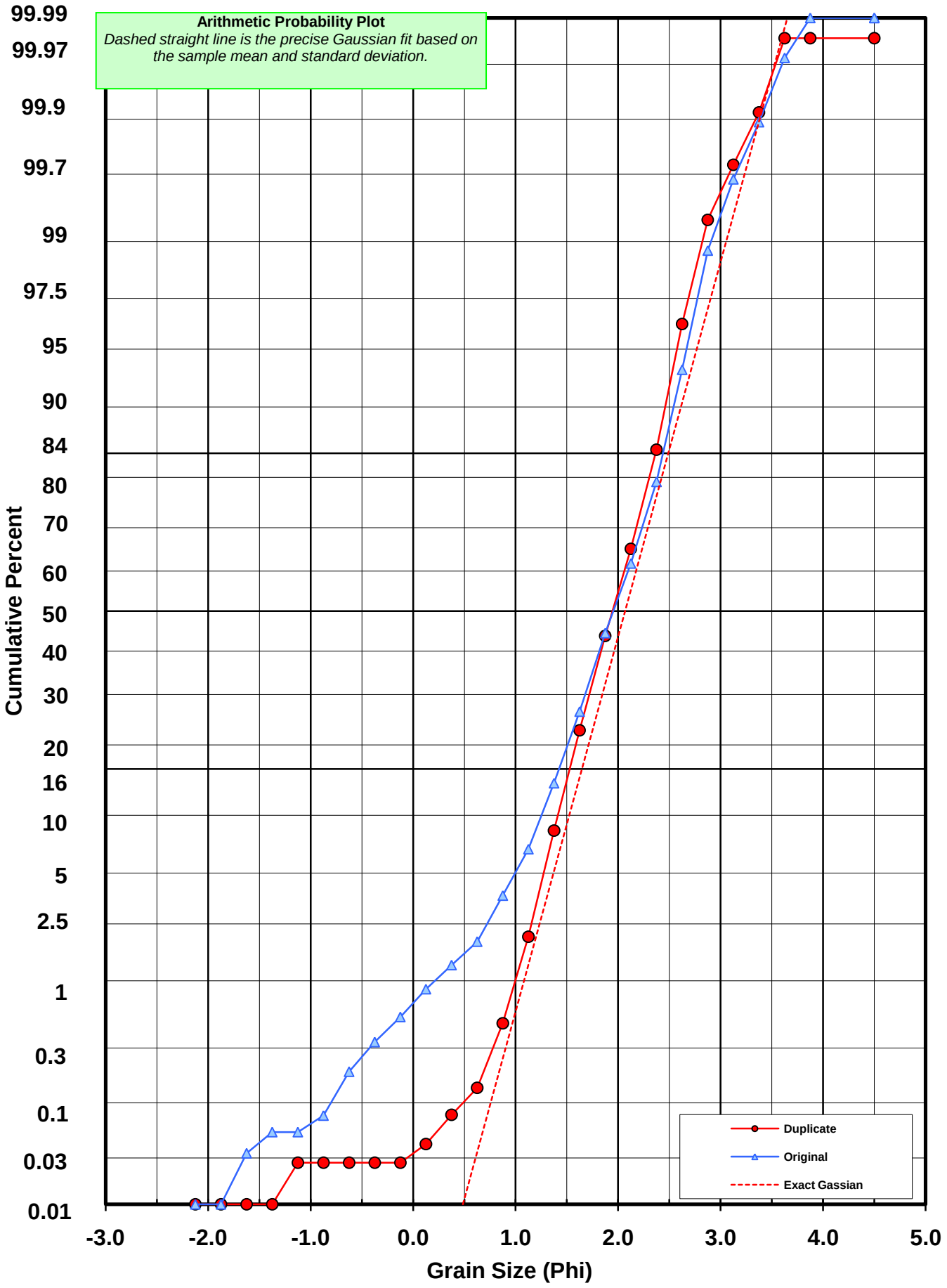
Onshore Grab Sample: NA-07-SS

Total Duplicate Sample Mass: 47.332 grams

Total Original Sample Mass: 49.289 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	0.017	0.034	0.034
-1.25	-1.375	0.000	0.000	0.000	0.010	0.020	0.055
-1.00	-1.125	0.013	0.027	0.027	0.000	0.000	0.055
-0.75	-0.875	0.000	0.000	0.027	0.011	0.022	0.077
-0.50	-0.625	0.000	0.000	0.027	0.054	0.110	0.187
-0.25	-0.375	0.000	0.000	0.027	0.073	0.148	0.335
0.00	-0.125	0.000	0.000	0.027	0.100	0.203	0.538
0.25	0.125	0.007	0.015	0.042	0.170	0.345	0.883
0.50	0.375	0.017	0.036	0.078	0.215	0.436	1.319
0.75	0.625	0.027	0.057	0.135	0.288	0.584	1.903
1.00	0.875	0.162	0.342	0.477	0.881	1.788	3.691
1.25	1.125	0.743	1.570	2.047	1.492	3.027	6.718
1.50	1.375	3.001	6.340	8.388	3.618	7.341	14.059
1.75	1.625	6.869	14.512	22.900	6.184	12.548	26.607
2.00	1.875	9.910	20.937	43.837	8.827	17.910	44.517
2.25	2.125	10.064	21.263	65.100	8.458	17.162	61.679
2.50	2.375	9.124	19.277	84.376	8.531	17.310	78.989
2.75	2.625	5.711	12.066	96.442	7.179	14.567	93.556
3.00	2.875	1.353	2.859	99.301	2.593	5.261	98.817
3.25	3.125	0.214	0.452	99.753	0.421	0.854	99.671
3.50	3.375	0.076	0.161	99.913	0.110	0.223	99.894
3.75	3.625	0.034	0.072	99.985	0.039	0.079	99.974
4.00	3.875	0.000	0.000	99.985	0.013	0.026	100.000
5.00	4.500	0.000	0.000	99.985	0.000	0.000	100.000
5.00	4.500	0.007	0.015	100.000	0.005	0.010	100.010



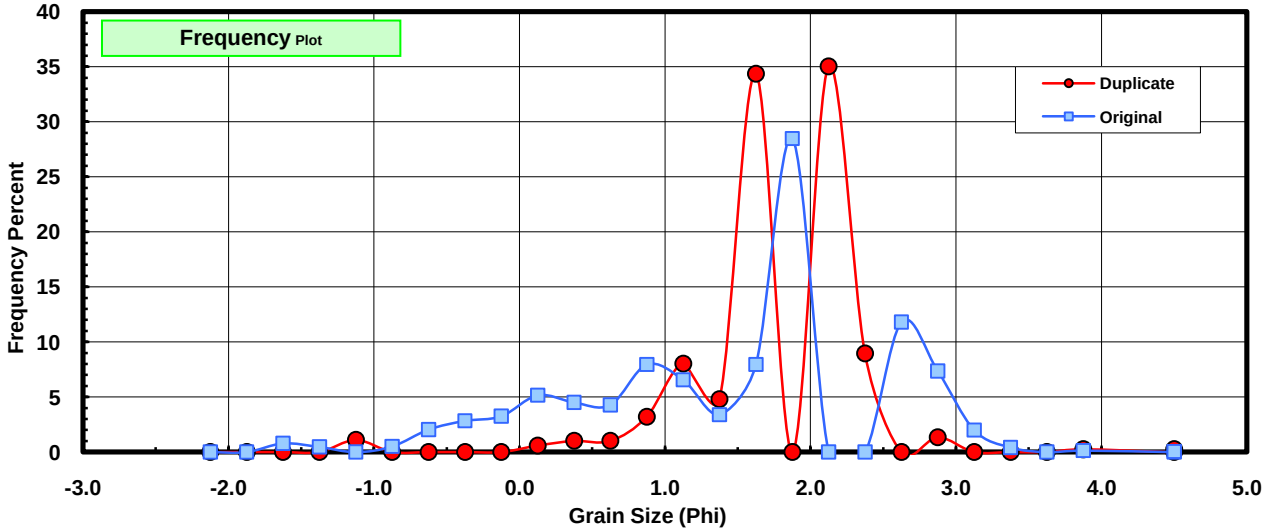

Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)
Duplicate
Original
Exact Gassian

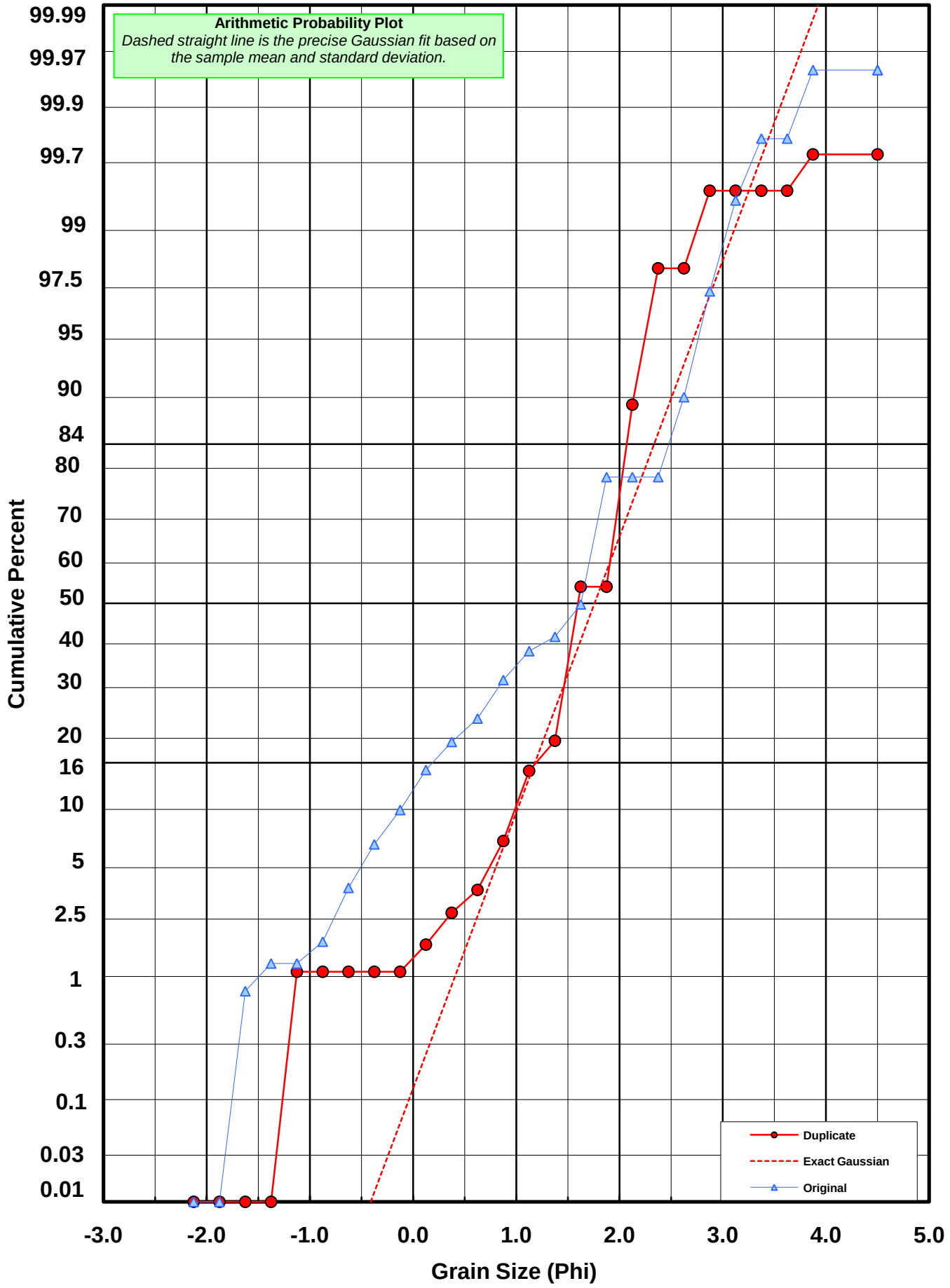
Carbonate Grain Size Distribution

Onshore Grab Sample: NA-07-SS

Total Duplicate Carbonate Mass:	1.184 grams
% Carbonate in Duplicate:	2.1 %
Total Original Carbonate Mass:	2.149 grams
% Carbonate in Original:	3.9 %

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	0.017	0.791	0.791
-1.25	-1.375	0.000	0.000	0.000	0.010	0.465	1.256
-1.00	-1.125	0.013	1.098	1.098	0.000	0.000	1.256
-0.75	-0.875	0.000	0.000	1.098	0.011	0.512	1.768
-0.50	-0.625	0.000	0.000	1.098	0.044	2.047	3.816
-0.25	-0.375	0.000	0.000	1.098	0.061	2.839	6.654
0.00	-0.125	0.000	0.000	1.098	0.070	3.257	9.912
0.25	0.125	0.007	0.591	1.689	0.111	5.165	15.077
0.50	0.375	0.012	1.014	2.703	0.097	4.514	19.591
0.75	0.625	0.012	1.014	3.716	0.092	4.281	23.872
1.00	0.875	0.038	3.209	6.926	0.171	7.957	31.829
1.25	1.125	0.095	8.024	14.949	0.141	6.561	38.390
1.50	1.375	0.057	4.814	19.764	0.073	3.397	41.787
1.75	1.625	0.407	34.375	54.139	0.171	7.957	49.744
2.00	1.875	0.000	0.000	54.139	0.612	28.478	78.222
2.25	2.125	0.415	35.051	89.189	0.000	0.000	78.222
2.50	2.375	0.106	8.953	98.142	0.000	0.000	78.222
2.75	2.625	0.000	0.000	98.142	0.254	11.819	90.042
3.00	2.875	0.016	1.351	99.493	0.158	7.352	97.394
3.25	3.125	0.000	0.000	99.493	0.043	2.001	99.395
3.50	3.375	0.000	0.000	99.493	0.009	0.419	99.814
3.75	3.625	0.000	0.000	99.493	0.000	0.000	99.814
4.00	3.875	0.003	0.253	99.747	0.003	0.140	99.953
5.00	4.500	0.000	0.000	99.747	0.000	0.000	99.953
5.00	4.500	0.003	0.253	100.000	0.001	0.047	100.000



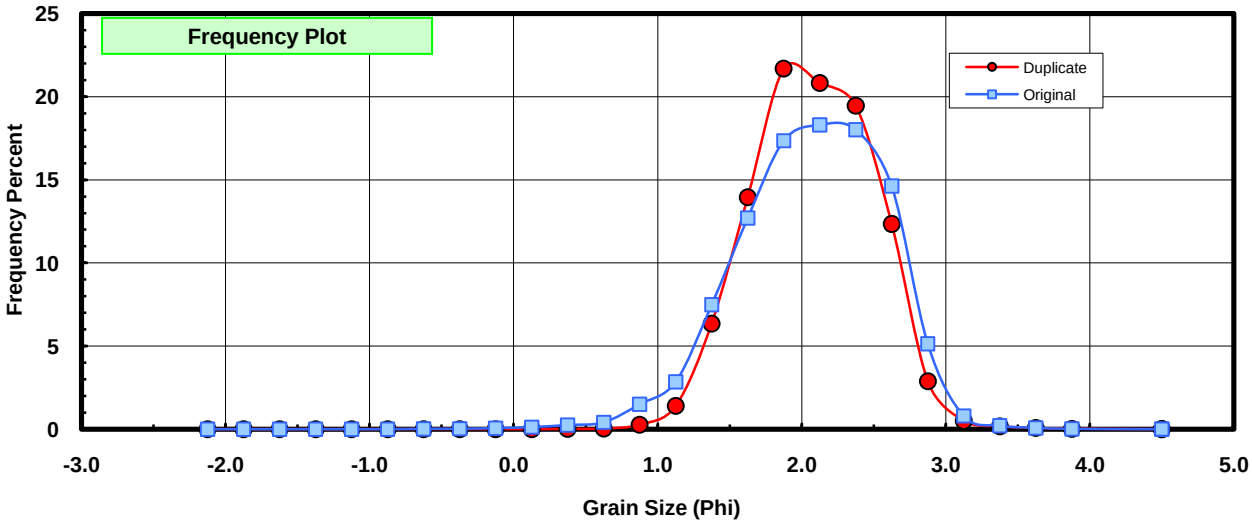

Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)
Duplicate
Exact Gaussian
Original

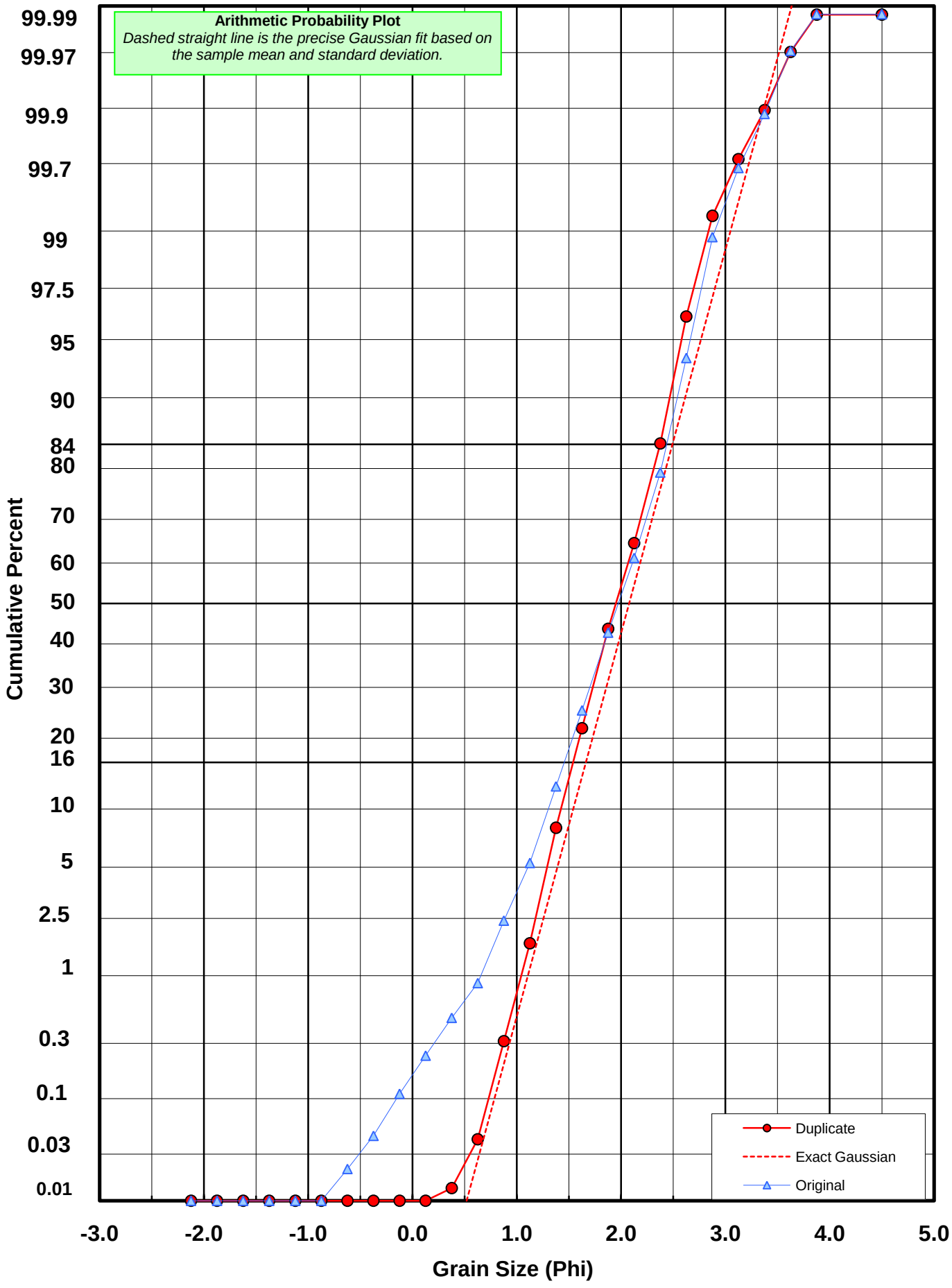
Post-Digestion Grain Size Distribution

Onshore Grab Sample: NA-07-SS

Total Duplicate Digested Mass:	46.332 grams
% Silica in Duplicate:	97.9 %
Total Original Digested Mass:	47.350 grams
% Silica in Original:	96.1 %

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	0.010	0.021	0.021
-0.25	-0.375	0.000	0.000	0.000	0.012	0.025	0.046
0.00	-0.125	0.000	0.000	0.000	0.030	0.063	0.110
0.25	0.125	0.000	0.000	0.000	0.059	0.125	0.234
0.50	0.375	0.005	0.011	0.011	0.118	0.249	0.484
0.75	0.625	0.015	0.032	0.043	0.196	0.414	0.898
1.00	0.875	0.124	0.268	0.311	0.710	1.499	2.397
1.25	1.125	0.648	1.399	1.709	1.351	2.853	5.250
1.50	1.375	2.944	6.354	8.064	3.545	7.487	12.737
1.75	1.625	6.462	13.947	22.011	6.013	12.699	25.436
2.00	1.875	10.047	21.685	43.696	8.215	17.350	42.786
2.25	2.125	9.649	20.826	64.521	8.667	18.304	61.090
2.50	2.375	9.018	19.464	83.985	8.532	18.019	79.109
2.75	2.625	5.720	12.346	96.331	6.925	14.625	93.734
3.00	2.875	1.337	2.886	99.217	2.435	5.143	98.876
3.25	3.125	0.236	0.509	99.726	0.378	0.798	99.675
3.50	3.375	0.079	0.171	99.896	0.101	0.213	99.888
3.75	3.625	0.034	0.073	99.970	0.039	0.082	99.970
4.00	3.875	0.010	0.022	99.991	0.010	0.021	99.992
5.00	4.500	0.000	0.000	99.991	0.000	0.000	99.992
5.00	4.500	0.004	0.009	100.000	0.004	0.008	100.000




Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)
Duplicate
Exact Gaussian
Original