

Quality Control Statistical Summary

Onshore Grab Sample: NA-03-BB

Sample Taken By: J. Ladner
 Sample Taken On: 12/04/02
 County: Nassau

Latitude: 30° 41' 53.9"
 Longitude: 81° 25' 44.0"
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	2.0218	phi (0.2463 mm)	1.9955	phi (0.2508 mm)
Standard Dev:	0.5638	phi-units (0.6765 mm)	0.6231	phi-units (0.6493 mm)
Skewness:	-0.4743	dimensionless	-0.4322	dimensionless
Kurtosis:	4.0408	dimensionless	3.3330	dimensionless
5th Moment:	-8.4502	dimensionless	-4.6017	dimensionless
6th Moment:	49.6538	dimensionless	23.6255	dimensionless
RARD*:	0.2789	dimensionless	0.3122	dimensionless
Median:	1.9105	phi (0.266 mm)	1.8929	phi (0.2693 mm)

Statistical Results: CaCO3				
	Duplicate		Original	
Mean:	1.8184	phi (0.2835 mm)	1.8128	phi (0.2846 mm)
Standard Dev:	1.0517	phi-units (0.4824 mm)	1.0719	phi-units (0.4757 mm)
Skewness:	-0.5961	dimensionless	-0.4799	dimensionless
Kurtosis:	3.1629	dimensionless	2.2511	dimensionless
5th Moment:	-5.1932	dimensionless	-2.6762	dimensionless
6th Moment:	18.2507	dimensionless	7.7900	dimensionless
RARD*:	0.5784	dimensionless	0.5913	dimensionless
Median:	1.6806	phi (0.312 mm)	1.8622	phi (0.2751 mm)

Statistical Results: Post-CaCO3				
	Duplicate		Original	
Mean:	2.0305	phi (0.2448 mm)	2.0014	phi (0.2498 mm)
Standard Dev:	0.5428	phi-units (0.6864 mm)	0.5999	phi-units (0.6598 mm)
Skewness:	-0.3025	dimensionless	-0.3313	dimensionless
Kurtosis:	3.3195	dimensionless	3.0289	dimensionless
5th Moment:	-3.3684	dimensionless	-2.8142	dimensionless
6th Moment:	23.9341	dimensionless	17.4611	dimensionless
RARD*:	0.2673	dimensionless	0.2997	dimensionless
Median:	1.9177	phi (0.2647 mm)	1.8936	phi (0.2691 mm)

Additional Data	
Total Fines	
Original:	0.14 %
Duplicate:	0.51 %
Total Carbonates	
Original:	3.06 %
Duplicate:	2.49 %

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 $mm = 2^{\sqrt{-\phi}}$	
* 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)

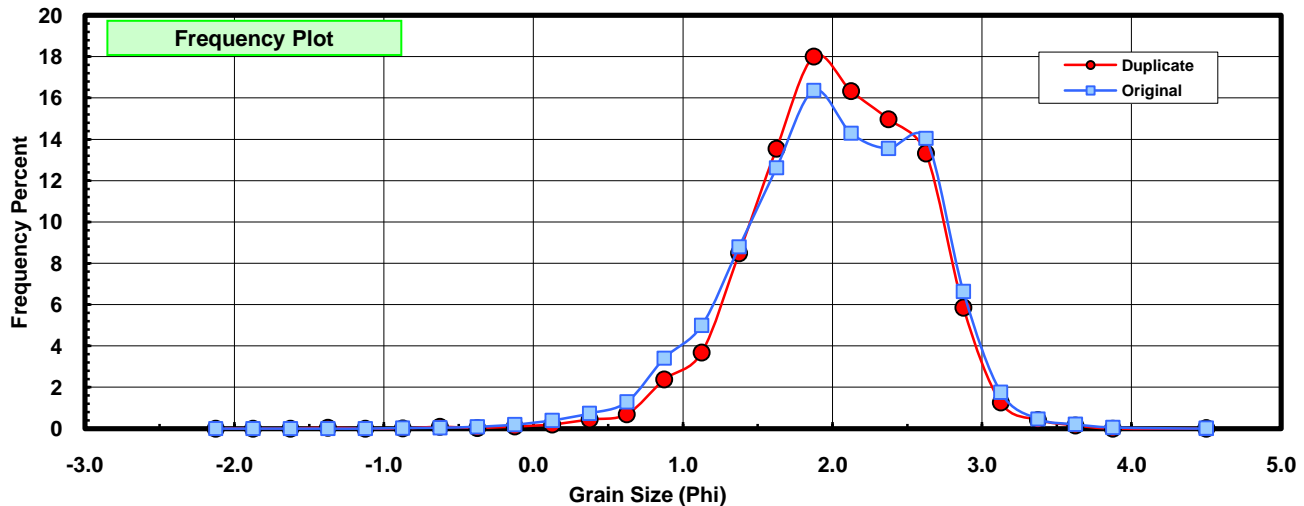
Pre-Digestion Grain Size Distribution

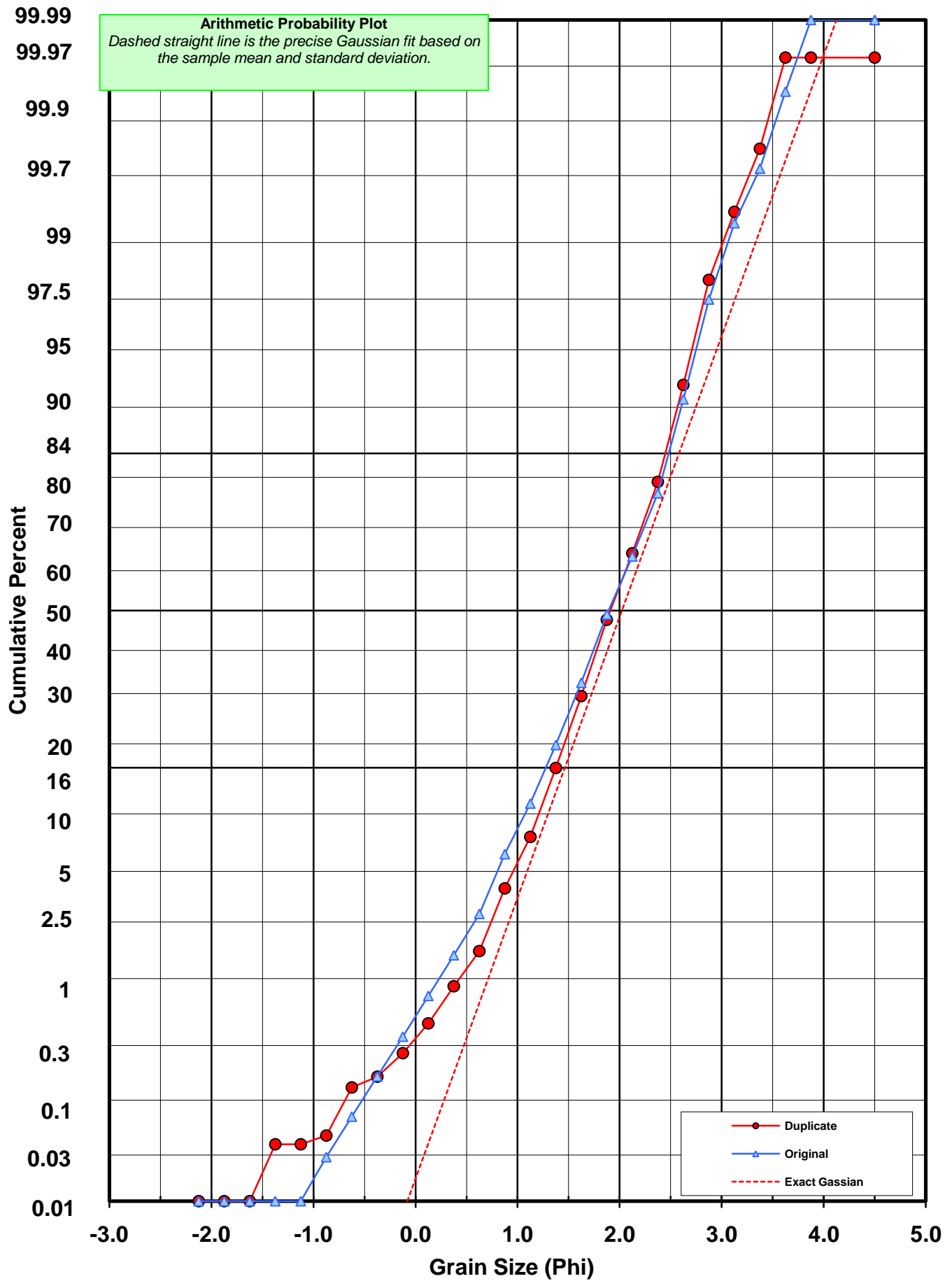
Onshore Grab Sample: NA-03-BB

Total Duplicate Sample Mass: 48.023 grams

Total Original Sample Mass: 47.718 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	0.019	0.040	0.040	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.040	0.000	0.000	0.000
-0.75	-0.875	0.004	0.008	0.048	0.014	0.029	0.029
-0.50	-0.625	0.039	0.081	0.129	0.020	0.042	0.071
-0.25	-0.375	0.015	0.031	0.160	0.043	0.090	0.161
0.00	-0.125	0.046	0.096	0.256	0.092	0.193	0.354
0.25	0.125	0.096	0.200	0.456	0.191	0.400	0.755
0.50	0.375	0.210	0.437	0.893	0.352	0.738	1.492
0.75	0.625	0.335	0.698	1.591	0.617	1.293	2.786
1.00	0.875	1.141	2.376	3.967	1.627	3.410	6.196
1.25	1.125	1.768	3.682	7.648	2.382	4.993	11.189
1.50	1.375	4.076	8.488	16.136	4.197	8.798	19.987
1.75	1.625	6.506	13.548	29.684	6.022	12.623	32.610
2.00	1.875	8.644	18.000	47.683	7.809	16.369	48.979
2.25	2.125	7.840	16.326	64.009	6.819	14.294	63.273
2.50	2.375	7.185	14.962	78.970	6.466	13.554	76.827
2.75	2.625	6.396	13.319	92.289	6.702	14.049	90.875
3.00	2.875	2.812	5.856	98.145	3.166	6.636	97.512
3.25	3.125	0.606	1.262	99.407	0.840	1.761	99.273
3.50	3.375	0.201	0.419	99.825	0.223	0.467	99.740
3.75	3.625	0.072	0.150	99.975	0.098	0.205	99.945
4.00	3.875	0.000	0.000	99.975	0.026	0.055	100.000
5.00	4.500	0.000	0.000	99.975	0.000	0.000	100.000
5.00	4.500	0.012	0.025	100.000	0.012	0.025	100.025



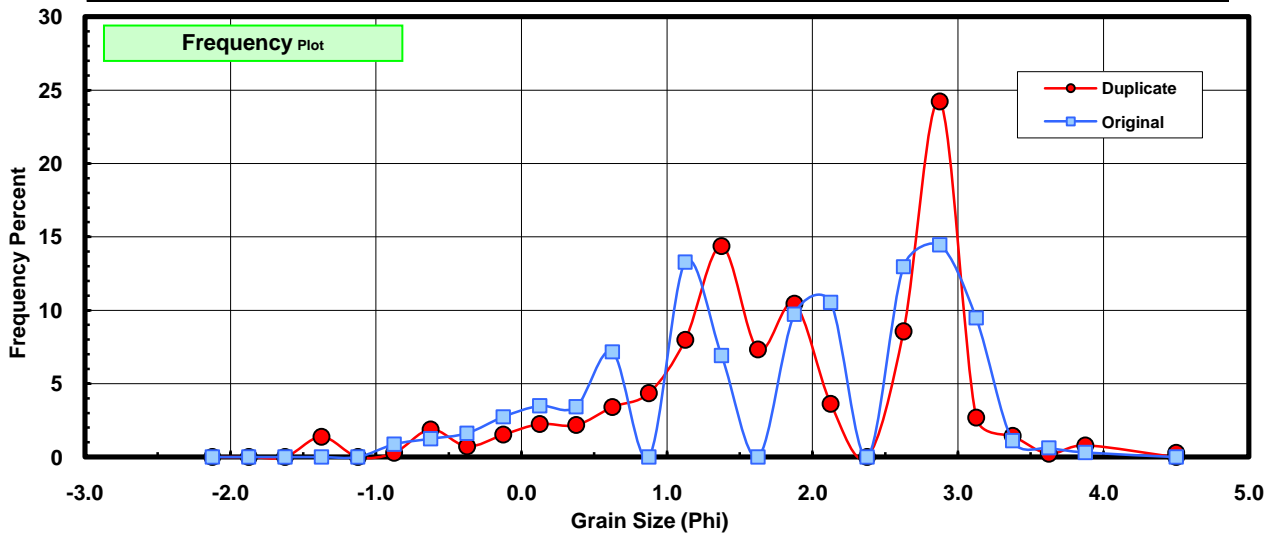


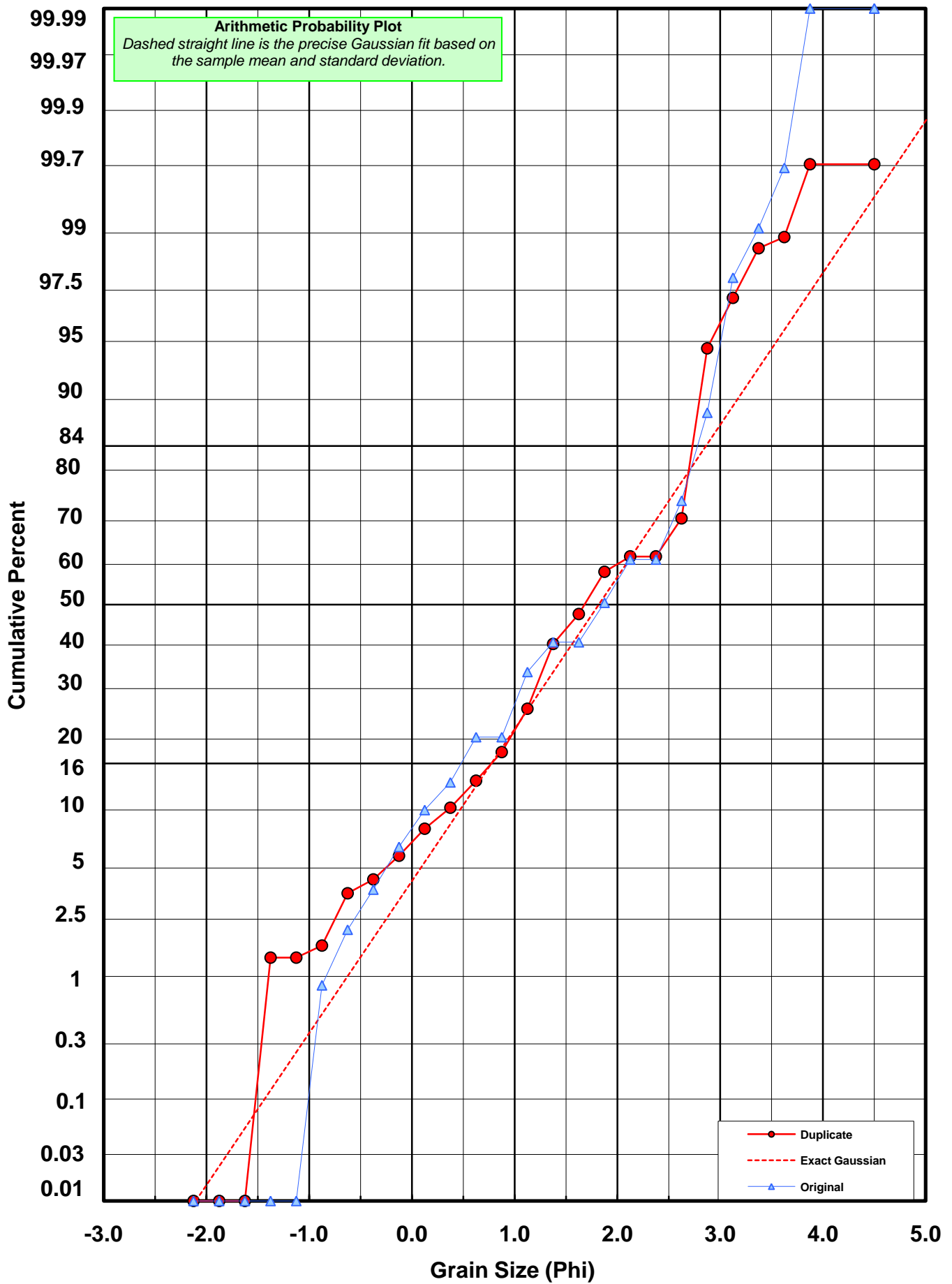
Carbonate Grain Size Distribution

Onshore Grab Sample: NA-03-BB

Total Duplicate Carbonate Mass: 1.378 grams
 % Carbonate in Duplicate: 2.5 %
 Total Original Carbonate Mass: 1.604 grams
 % Carbonate in Original: 3.1 %

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	0.019	1.379	1.379	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	1.379	0.000	0.000	0.000
-0.75	-0.875	0.004	0.290	1.669	0.014	0.873	0.873
-0.50	-0.625	0.026	1.887	3.556	0.020	1.247	2.120
-0.25	-0.375	0.010	0.726	4.282	0.026	1.621	3.741
0.00	-0.125	0.021	1.524	5.806	0.044	2.743	6.484
0.25	0.125	0.031	2.250	8.055	0.056	3.491	9.975
0.50	0.375	0.030	2.177	10.232	0.055	3.429	13.404
0.75	0.625	0.047	3.411	13.643	0.115	7.170	20.574
1.00	0.875	0.060	4.354	17.997	0.000	0.000	20.574
1.25	1.125	0.110	7.983	25.980	0.213	13.279	33.853
1.50	1.375	0.198	14.369	40.348	0.111	6.920	40.773
1.75	1.625	0.101	7.329	47.678	0.000	0.000	40.773
2.00	1.875	0.144	10.450	58.128	0.156	9.726	50.499
2.25	2.125	0.050	3.628	61.756	0.169	10.536	61.035
2.50	2.375	0.000	0.000	61.756	0.000	0.000	61.035
2.75	2.625	0.118	8.563	70.319	0.208	12.968	74.002
3.00	2.875	0.334	24.238	94.557	0.232	14.464	88.466
3.25	3.125	0.037	2.685	97.242	0.152	9.476	97.943
3.50	3.375	0.020	1.451	98.694	0.018	1.122	99.065
3.75	3.625	0.003	0.218	98.911	0.010	0.623	99.688
4.00	3.875	0.011	0.798	99.710	0.005	0.312	100.000
5.00	4.500	0.000	0.000	99.710	0.000	0.000	100.000
5.00	4.500	0.004	0.290	100.000	0.000	0.000	100.000





Post-Digestion Grain Size Distribution

Onshore Grab Sample: NA-03-BB

Total Duplicate Digested Mass: 46.860 grams
% Silica in Duplicate: 97.5 %
Total Original Digested Mass: 46.256 grams
% Silica in Original: 96.9 %

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	0.013	0.028	0.028	0.000	0.000	0.000
-0.25	-0.375	0.005	0.011	0.038	0.017	0.037	0.037
0.00	-0.125	0.025	0.053	0.092	0.048	0.104	0.141
0.25	0.125	0.065	0.139	0.230	0.135	0.292	0.432
0.50	0.375	0.180	0.384	0.615	0.297	0.642	1.074
0.75	0.625	0.288	0.615	1.229	0.502	1.085	2.160
1.00	0.875	1.081	2.307	3.536	1.651	3.569	5.729
1.25	1.125	1.658	3.538	7.074	2.169	4.689	10.418
1.50	1.375	3.878	8.276	15.350	4.086	8.833	19.252
1.75	1.625	6.405	13.668	29.018	6.074	13.131	32.383
2.00	1.875	8.500	18.139	47.157	7.653	16.545	48.928
2.25	2.125	7.790	16.624	63.781	6.650	14.377	63.304
2.50	2.375	7.364	15.715	79.496	6.532	14.121	77.426
2.75	2.625	6.278	13.397	92.894	6.494	14.039	91.465
3.00	2.875	2.478	5.288	98.182	2.934	6.343	97.808
3.25	3.125	0.569	1.214	99.396	0.688	1.487	99.295
3.50	3.375	0.181	0.386	99.782	0.205	0.443	99.738
3.75	3.625	0.069	0.147	99.930	0.088	0.190	99.929
4.00	3.875	0.025	0.053	99.983	0.021	0.045	99.974
5.00	4.500	0.000	0.000	99.983	0.000	0.000	99.974
5.00	4.500	0.008	0.017	100.000	0.012	0.026	100.000

