

Quality Control Statistical Summary

Onshore Grab Sample: FG-06-SS

Sample Taken By: J. Ladner **Latitude:** 29° 35' 49.5"
Sample Taken On: 12/03/03 **Longitude:** 81° 10' 54.7"
County: Flagler **Datum:** NAD 83

Statistical Results: Pre-CaCO3			
	Duplicate		Original
Mean:	1.3763	phi (0.3852 mm)	1.4242 phi (0.3726 mm)
Standard Dev:	0.6104	phi-units (0.655 mm)	0.5896 phi-units (0.6645 mm)
Skewness:	0.0451	dimensionless	0.0783 dimensionless
Kurtosis:	3.3341	dimensionless	3.3477 dimensionless
5th Moment:	-0.5955	dimensionless	-0.5205 dimensionless
6th Moment:	18.1701	dimensionless	20.0169 dimensionless
RARD*:	0.4435	dimensionless	0.4140 dimensionless
Median:	1.2291	phi (0.4266 mm)	1.2717 phi (0.4142 mm)

Statistical Results: CaCO3			
	Duplicate		Original
Mean:	0.9321	phi (0.5241 mm)	0.9639 phi (0.5127 mm)
Standard Dev:	0.5433	phi-units (0.6862 mm)	0.5059 phi-units (0.7042 mm)
Skewness:	-0.3229	dimensionless	-0.2081 dimensionless
Kurtosis:	2.9690	dimensionless	3.9461 dimensionless
5th Moment:	-2.9266	dimensionless	-0.8042 dimensionless
6th Moment:	15.3874	dimensionless	38.6834 dimensionless
RARD*:	0.5829	dimensionless	0.5248 dimensionless
Median:	0.8380	phi (0.5594 mm)	0.8313 phi (0.562 mm)

Statistical Results: Post-CaCO3			
	Duplicate		Original
Mean:	1.5762	phi (0.3354 mm)	1.6192 phi (0.3255 mm)
Standard Dev:	0.5343	phi-units (0.6905 mm)	0.5249 phi-units (0.695 mm)
Skewness:	0.4813	dimensionless	0.4199 dimensionless
Kurtosis:	2.7974	dimensionless	2.8267 dimensionless
5th Moment:	3.0264	dimensionless	2.5329 dimensionless
6th Moment:	12.2168	dimensionless	13.2391 dimensionless
RARD*:	0.3390	dimensionless	0.3242 dimensionless
Median:	1.3799	phi (0.3843 mm)	1.4436 phi (0.3677 mm)

Additional Data	
Total Fines	
Original:	1.17 %
Duplicate:	0.9 %
Total Carbonates	
Original:	28.24 %
Duplicate:	30.76 %

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

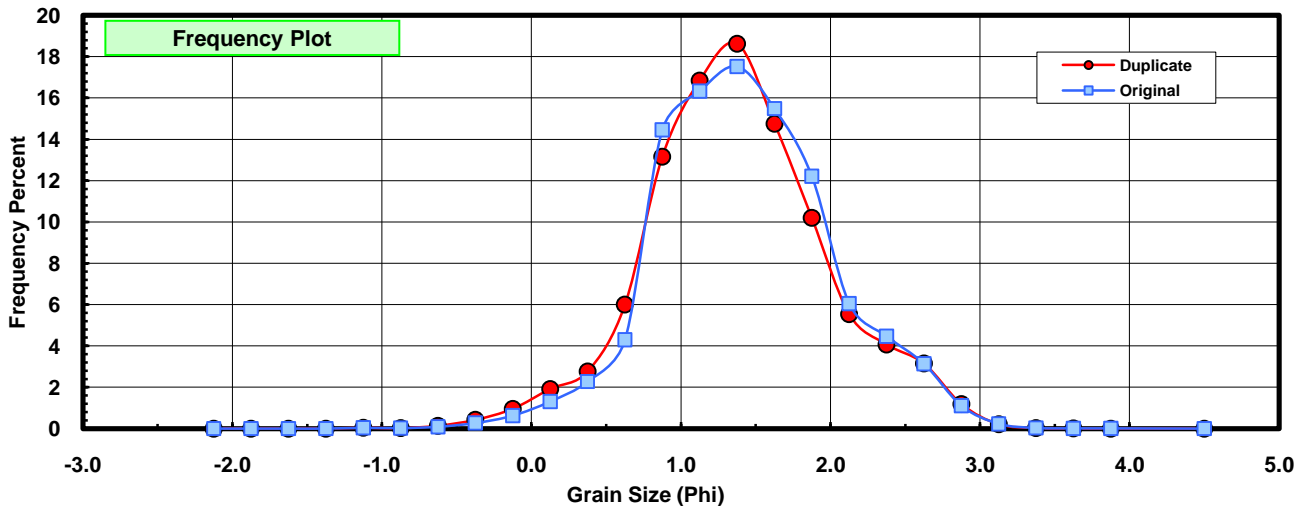
Pre-Digestion Grain Size Distribution

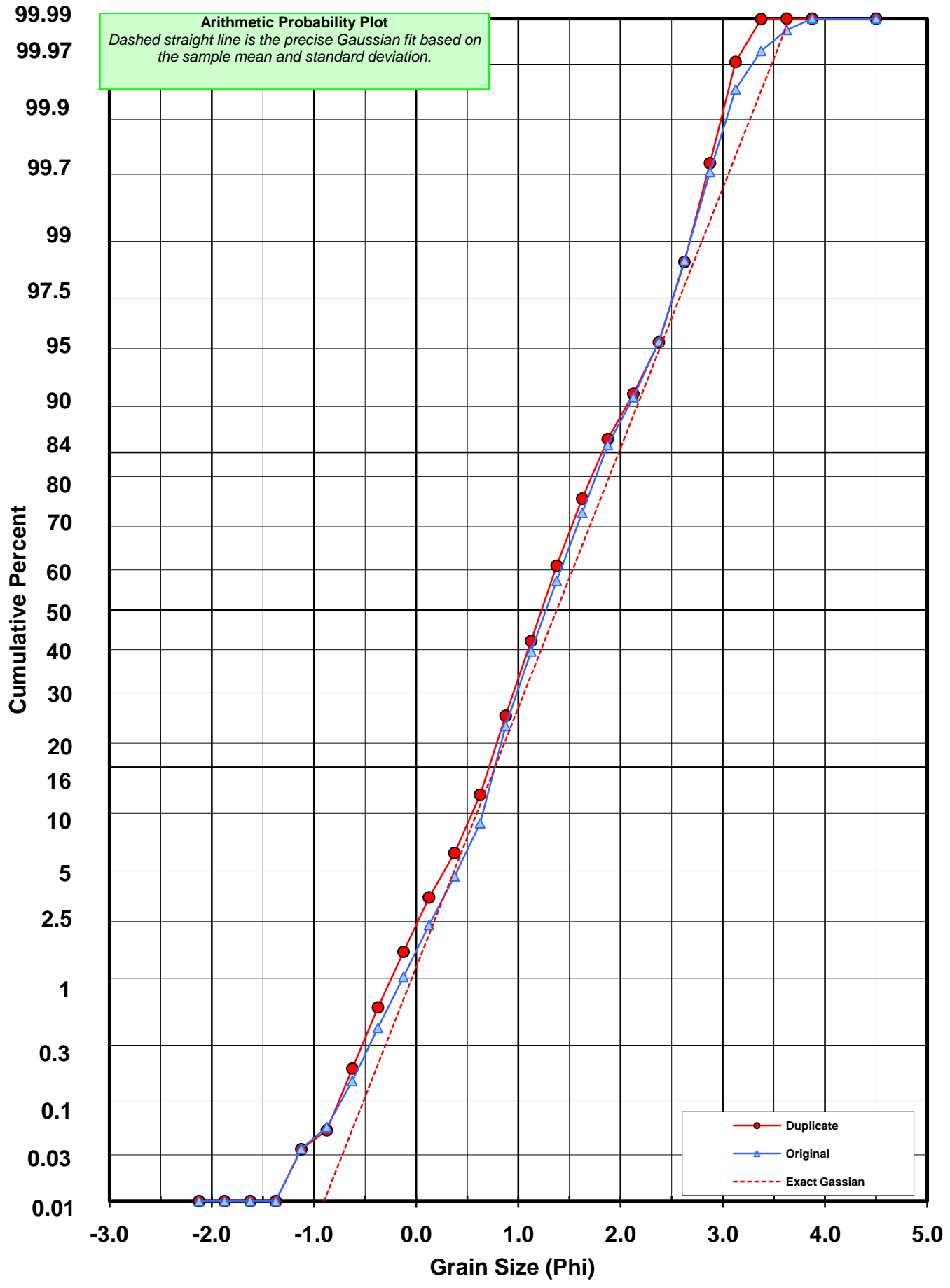
Onshore Grab Sample: FG-06-SS

Total Duplicate Sample Mass: 76.729 grams

Total Original Sample Mass: 78.660 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	0.000	0.000	0.000	0.000	0.000	0.000
-1.00	-1.125	0.027	0.035	0.035	0.028	0.036	0.036
-0.75	-0.875	0.014	0.018	0.053	0.017	0.022	0.057
-0.50	-0.625	0.103	0.134	0.188	0.070	0.089	0.146
-0.25	-0.375	0.324	0.422	0.610	0.213	0.271	0.417
0.00	-0.125	0.734	0.957	1.567	0.493	0.627	1.044
0.25	0.125	1.472	1.918	3.485	1.032	1.312	2.356
0.50	0.375	2.119	2.762	6.247	1.792	2.278	4.634
0.75	0.625	4.603	5.999	12.246	3.378	4.294	8.928
1.00	0.875	10.095	13.157	25.402	11.372	14.457	23.385
1.25	1.125	12.925	16.845	42.247	12.848	16.334	39.719
1.50	1.375	14.291	18.625	60.873	13.785	17.525	57.244
1.75	1.625	11.323	14.757	75.630	12.183	15.488	72.732
2.00	1.875	7.822	10.194	85.824	9.607	12.213	84.945
2.25	2.125	4.246	5.534	91.358	4.758	6.049	90.994
2.50	2.375	3.124	4.071	95.429	3.517	4.471	95.465
2.75	2.625	2.414	3.146	98.576	2.471	3.141	98.607
3.00	2.875	0.910	1.186	99.761	0.872	1.109	99.715
3.25	3.125	0.161	0.210	99.971	0.182	0.231	99.947
3.50	3.375	0.020	0.026	99.997	0.025	0.032	99.978
3.75	3.625	0.002	0.003	100.000	0.009	0.011	99.990
4.00	3.875	0.000	0.000	100.000	0.008	0.010	100.000
5.00	4.500	0.000	0.000	100.000	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000	0.000	0.000	100.000



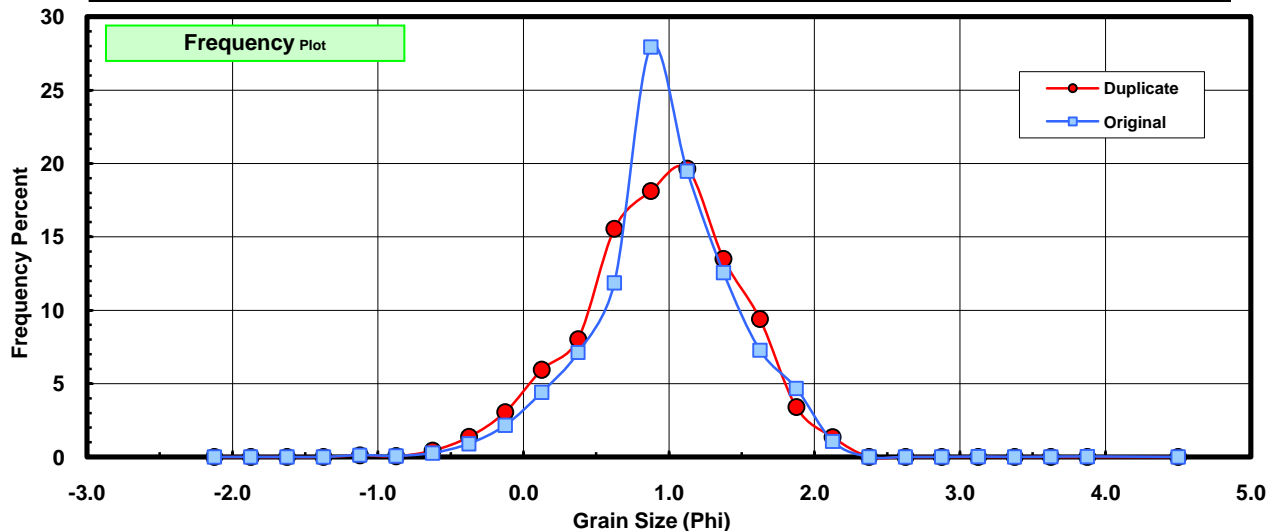


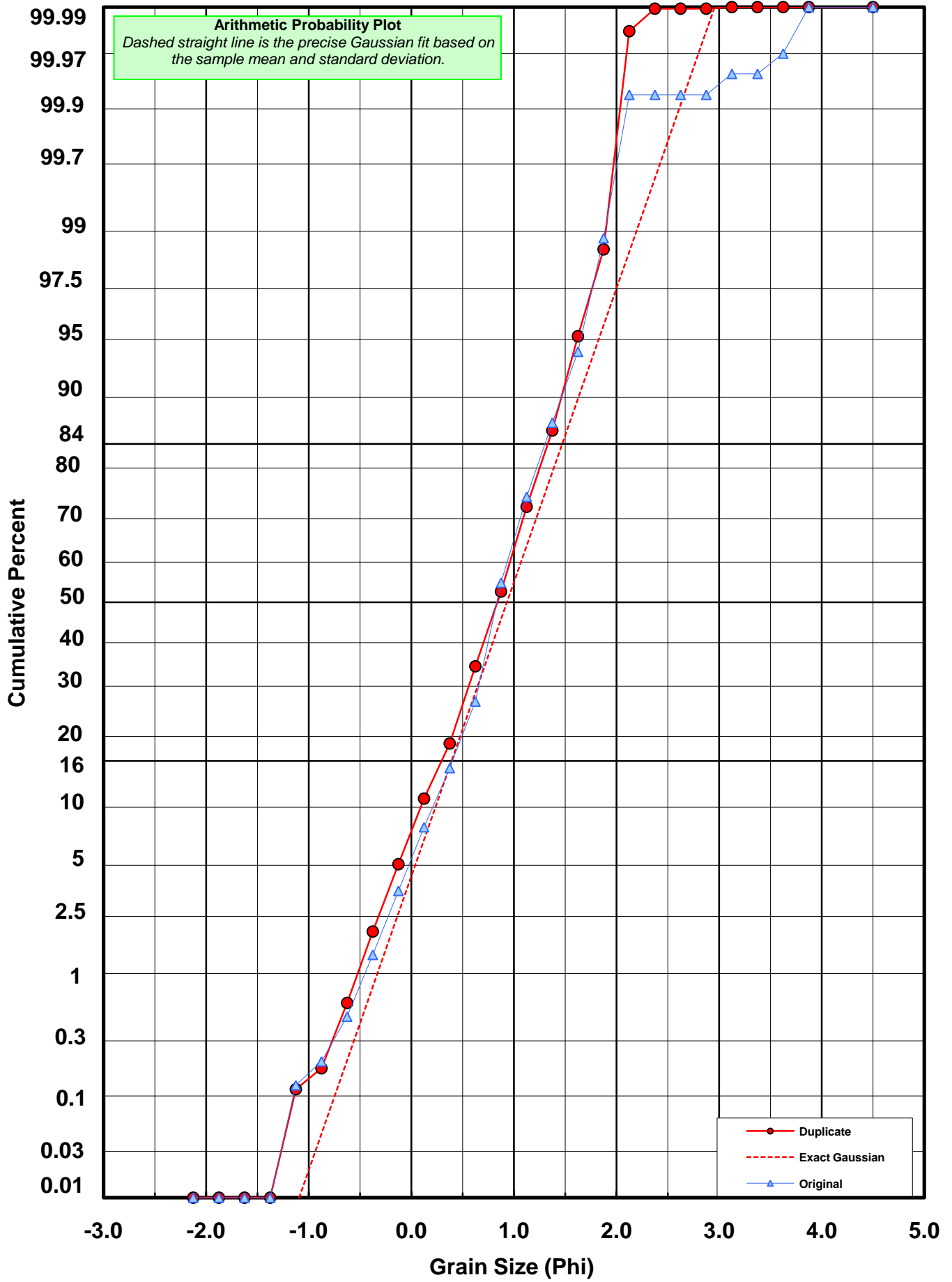
Carbonate Grain Size Distribution

Onshore Grab Sample: FG-06-SS

Total Duplicate Carbonate Mass: 23.678 grams
% Carbonate in Duplicate: 30.8 %
Total Original Carbonate Mass: 22.658 grams
% Carbonate in Original: 28.2 %

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	0.000	0.000	0.000	0.000	0.000	0.000
-1.00	-1.125	0.027	0.114	0.114	0.028	0.124	0.124
-0.75	-0.875	0.014	0.059	0.173	0.017	0.075	0.199
-0.50	-0.625	0.103	0.435	0.608	0.062	0.274	0.472
-0.25	-0.375	0.324	1.368	1.977	0.205	0.905	1.377
0.00	-0.125	0.726	3.066	5.043	0.490	2.163	3.540
0.25	0.125	1.408	5.946	10.989	0.999	4.409	7.949
0.50	0.375	1.900	8.024	19.013	1.614	7.123	15.072
0.75	0.625	3.683	15.555	34.568	2.690	11.872	26.944
1.00	0.875	4.289	18.114	52.682	6.330	27.937	54.881
1.25	1.125	4.650	19.638	72.320	4.412	19.472	74.353
1.50	1.375	3.198	13.506	85.827	2.845	12.556	86.910
1.75	1.625	2.226	9.401	95.228	1.649	7.278	94.187
2.00	1.875	0.806	3.404	98.632	1.059	4.674	98.861
2.25	2.125	0.320	1.351	99.983	0.241	1.064	99.925
2.50	2.375	0.003	0.013	99.996	0.000	0.000	99.925
2.75	2.625	0.000	0.000	99.996	0.000	0.000	99.925
3.00	2.875	0.000	0.000	99.996	0.000	0.000	99.925
3.25	3.125	0.001	0.004	100.000	0.006	0.026	99.951
3.50	3.375	0.000	0.000	100.000	0.000	0.000	99.951
3.75	3.625	0.000	0.000	100.000	0.004	0.018	99.969
4.00	3.875	0.000	0.000	100.000	0.007	0.031	100.000
5.00	4.500	0.000	0.000	100.000	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000	0.000	0.000	100.000





Post-Digestion Grain Size Distribution

Onshore Grab Sample: FG-06-SS

Total Duplicate Digested Mass: 53.124 grams
% Silica in Duplicate: 69.2 %
Total Original Digested Mass: 56.449 grams
% Silica in Original: 71.8 %

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	0.008	0.014	0.014
-0.25	-0.375	0.000	0.000	0.000	0.008	0.014	0.028
0.00	-0.125	0.008	0.015	0.015	0.003	0.005	0.034
0.25	0.125	0.064	0.120	0.136	0.033	0.058	0.092
0.50	0.375	0.219	0.412	0.548	0.178	0.315	0.407
0.75	0.625	0.920	1.732	2.280	0.688	1.219	1.626
1.00	0.875	5.806	10.929	13.209	5.042	8.932	10.558
1.25	1.125	8.275	15.577	28.785	8.436	14.944	25.503
1.50	1.375	11.093	20.881	49.667	10.940	19.380	44.883
1.75	1.625	9.097	17.124	66.791	10.534	18.661	63.544
2.00	1.875	7.016	13.207	79.998	8.548	15.143	78.687
2.25	2.125	3.926	7.390	87.388	4.517	8.002	86.689
2.50	2.375	3.121	5.875	93.263	3.551	6.291	92.980
2.75	2.625	2.439	4.591	97.854	2.675	4.739	97.718
3.00	2.875	0.954	1.796	99.650	1.078	1.910	99.628
3.25	3.125	0.160	0.301	99.951	0.176	0.312	99.940
3.50	3.375	0.024	0.045	99.996	0.028	0.050	99.989
3.75	3.625	0.002	0.004	100.000	0.005	0.009	99.998
4.00	3.875	0.000	0.000	100.000	0.001	0.002	100.000
5.00	4.500	0.000	0.000	100.000	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000	0.000	0.000	100.000

