

Quality Control Statistical Summary

Onshore Grab Sample: SJ-43-SS

Sample Taken By: J. Ladner
 Sample Taken On: 12/02/03
 County: St. Johns

Latitude: 29° 40' 59.7"
 Longitude: 81° 13' 3.3"
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	2.5987	phi (0.1651 mm)	2.5756	phi (0.1677 mm)
Standard Dev:	0.3468	phi-units (0.7863 mm)	0.3526	phi-units (0.7831 mm)
Skewness:	-0.8408	dimensionless	-1.0086	dimensionless
Kurtosis:	6.0820	dimensionless	8.7572	dimensionless
5th Moment:	-21.3880	dimensionless	-47.8825	dimensionless
6th Moment:	149.9867	dimensionless	433.2086	dimensionless
RARD*:	0.1335	dimensionless	0.1369	dimensionless
Median:	2.5037	phi (0.1763 mm)	2.4784	phi (0.1794 mm)

Statistical Results: CaCO3				
	Duplicate		Original	
Mean:	2.5968	phi (0.1653 mm)	2.1282	phi (0.2287 mm)
Standard Dev:	0.7143	phi-units (0.6095 mm)	0.6095	phi-units (0.6554 mm)
Skewness:	-1.6863	dimensionless	-2.3288	dimensionless
Kurtosis:	5.5747	dimensionless	11.4838	dimensionless
5th Moment:	-16.0698	dimensionless	-47.6002	dimensionless
6th Moment:	56.1093	dimensionless	234.3960	dimensionless
RARD*:	0.2751	dimensionless	0.2864	dimensionless
Median:	2.7428	phi (0.1494 mm)	2.1723	phi (0.2219 mm)

Statistical Results: Post-CaCO3				
	Duplicate		Original	
Mean:	2.5990	phi (0.165 mm)	2.5885	phi (0.1663 mm)
Standard Dev:	0.3320	phi-units (0.7944 mm)	0.3333	phi-units (0.7937 mm)
Skewness:	-0.4990	dimensionless	-0.4937	dimensionless
Kurtosis:	4.4451	dimensionless	4.7248	dimensionless
5th Moment:	-7.3202	dimensionless	-6.0468	dimensionless
6th Moment:	57.1430	dimensionless	56.8968	dimensionless
RARD*:	0.1278	dimensionless	0.1288	dimensionless
Median:	2.4976	phi (0.1771 mm)	2.4877	phi (0.1783 mm)

Additional Data	
Total Fines	
Original:	1.31 %
Duplicate:	1.25 %
Total Carbonates	
Original:	1.37 %
Duplicate:	1.22 %

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)

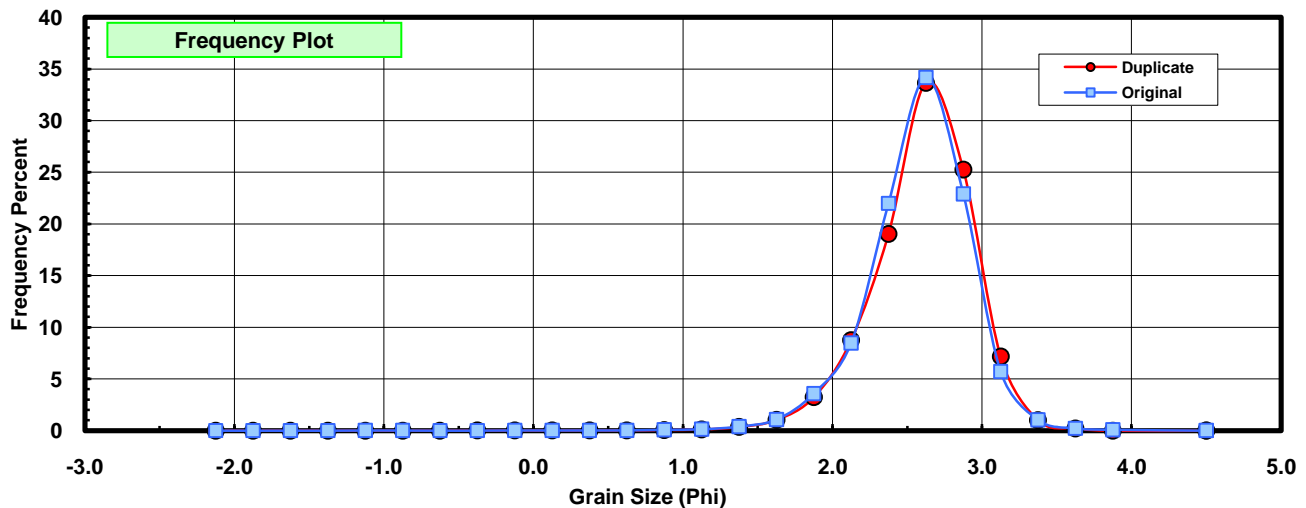
Pre-Digestion Grain Size Distribution

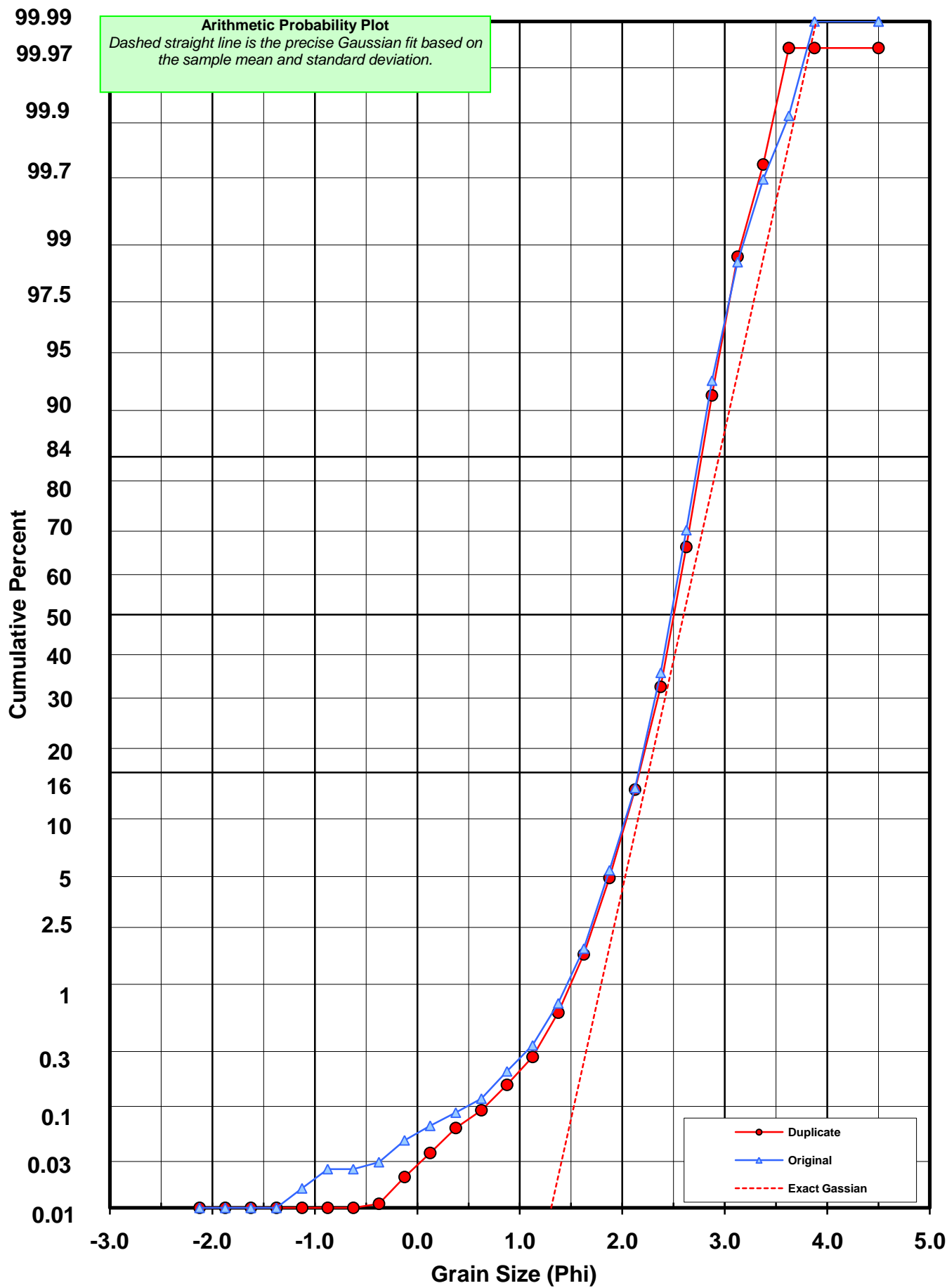
Onshore Grab Sample: SJ-43-SS

Total Duplicate Sample Mass: 82.483 grams

Total Original Sample Mass: 62.531 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	0.000	0.000	0.000	0.009	0.014	0.014
-0.75	-0.875	0.000	0.000	0.000	0.007	0.011	0.026
-0.50	-0.625	0.000	0.000	0.000	0.000	0.000	0.026
-0.25	-0.375	0.005	0.006	0.006	0.003	0.005	0.030
0.00	-0.125	0.012	0.015	0.021	0.012	0.019	0.050
0.25	0.125	0.014	0.017	0.038	0.011	0.018	0.067
0.50	0.375	0.022	0.027	0.064	0.013	0.021	0.088
0.75	0.625	0.023	0.028	0.092	0.018	0.029	0.117
1.00	0.875	0.051	0.062	0.154	0.053	0.085	0.202
1.25	1.125	0.094	0.114	0.268	0.084	0.134	0.336
1.50	1.375	0.291	0.353	0.621	0.248	0.397	0.733
1.75	1.625	0.851	1.032	1.652	0.671	1.073	1.806
2.00	1.875	2.668	3.235	4.887	2.244	3.589	5.395
2.25	2.125	7.223	8.757	13.644	5.300	8.477	13.872
2.50	2.375	15.700	19.034	32.678	13.752	21.996	35.868
2.75	2.625	27.763	33.659	66.337	21.364	34.171	70.039
3.00	2.875	20.840	25.266	91.603	14.320	22.904	92.943
3.25	3.125	5.909	7.164	98.767	3.569	5.708	98.652
3.50	3.375	0.828	1.004	99.771	0.651	1.041	99.693
3.75	3.625	0.174	0.211	99.982	0.138	0.221	99.914
4.00	3.875	0.000	0.000	99.982	0.054	0.086	100.000
5.00	4.500	0.000	0.000	99.982	0.000	0.000	100.000
5.00	4.500	0.015	0.018	100.000	0.010	0.016	100.016



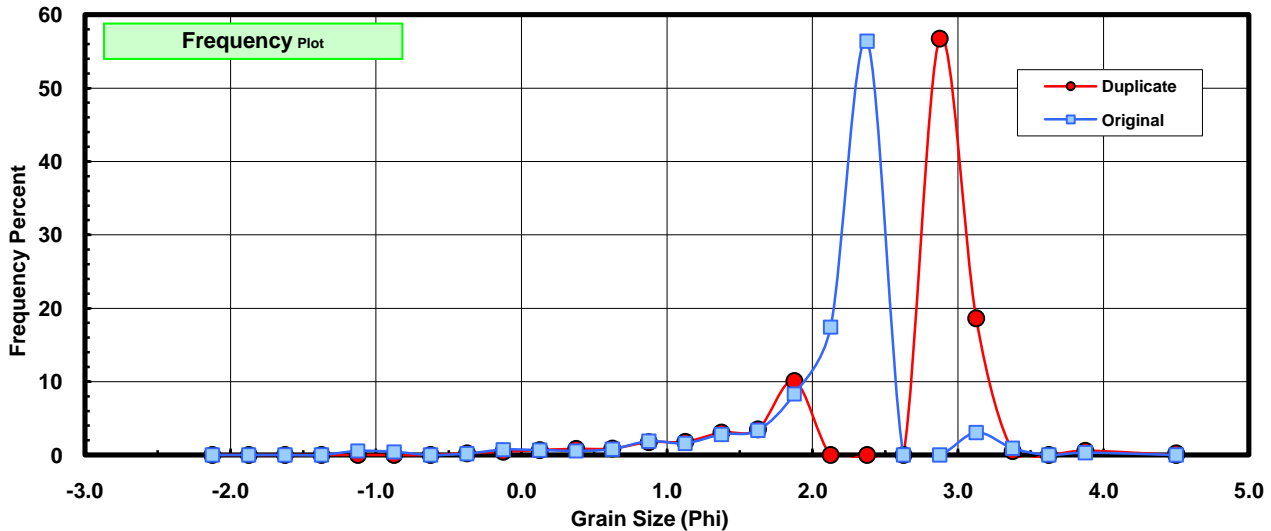


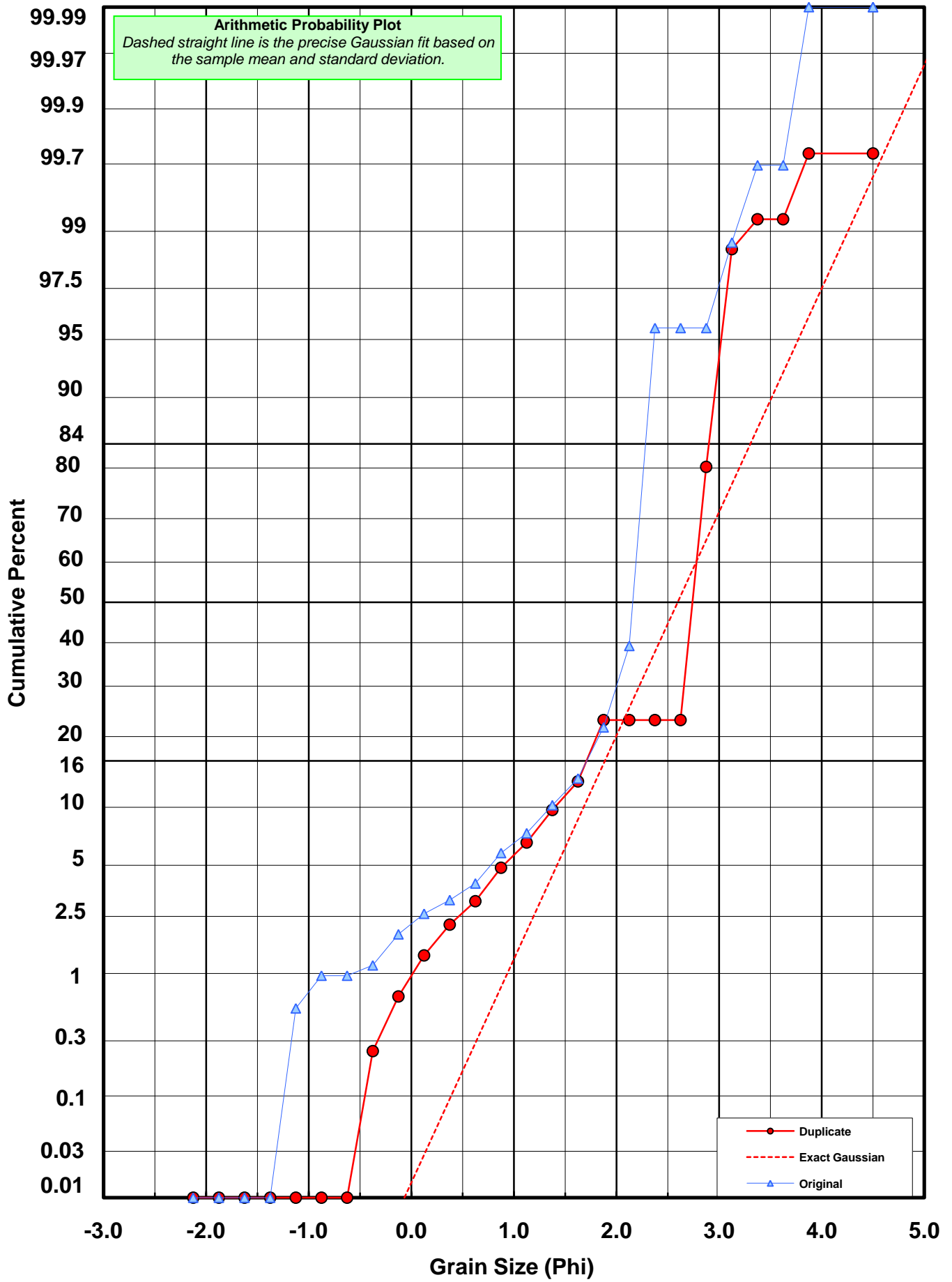
Carbonate Grain Size Distribution

Onshore Grab Sample: SJ-43-SS

Total Duplicate Carbonate Mass: 2.055 grams
% Carbonate in Duplicate: 1.2 %
Total Original Carbonate Mass: 1.635 grams
% Carbonate in Original: 1.4 %

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	0.000	0.000	0.000	0.009	0.550	0.550
-0.75	-0.875	0.000	0.000	0.000	0.007	0.428	0.979
-0.50	-0.625	0.000	0.000	0.000	0.000	0.000	0.979
-0.25	-0.375	0.005	0.243	0.243	0.003	0.183	1.162
0.00	-0.125	0.009	0.438	0.681	0.012	0.734	1.896
0.25	0.125	0.014	0.681	1.363	0.011	0.673	2.569
0.50	0.375	0.017	0.827	2.190	0.009	0.550	3.119
0.75	0.625	0.018	0.876	3.066	0.013	0.795	3.914
1.00	0.875	0.036	1.752	4.818	0.031	1.896	5.810
1.25	1.125	0.037	1.800	6.618	0.026	1.590	7.401
1.50	1.375	0.063	3.066	9.684	0.046	2.813	10.214
1.75	1.625	0.072	3.504	13.187	0.055	3.364	13.578
2.00	1.875	0.207	10.073	23.260	0.136	8.318	21.896
2.25	2.125	0.000	0.000	23.260	0.285	17.431	39.327
2.50	2.375	0.000	0.000	23.260	0.922	56.391	95.719
2.75	2.625	0.000	0.000	23.260	0.000	0.000	95.719
3.00	2.875	1.166	56.740	80.000	0.000	0.000	95.719
3.25	3.125	0.383	18.637	98.637	0.050	3.058	98.777
3.50	3.375	0.011	0.535	99.173	0.015	0.917	99.694
3.75	3.625	0.000	0.000	99.173	0.000	0.000	99.694
4.00	3.875	0.012	0.584	99.757	0.005	0.306	100.000
5.00	4.500	0.000	0.000	99.757	0.000	0.000	100.000
5.00	4.500	0.005	0.243	100.000	0.000	0.000	100.000





Post-Digestion Grain Size Distribution

Onshore Grab Sample: SJ-43-SS

Total Duplicate Digested Mass: 81.534 grams
% Silica in Duplicate: 98.8 %
Total Original Digested Mass: 61.675 grams
% Silica in Original: 98.6 %

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	0.003	0.004	0.004	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.004	0.000	0.000	0.000
0.50	0.375	0.005	0.006	0.010	0.004	0.006	0.006
0.75	0.625	0.005	0.006	0.016	0.005	0.008	0.015
1.00	0.875	0.015	0.018	0.034	0.022	0.036	0.050
1.25	1.125	0.057	0.070	0.104	0.058	0.094	0.144
1.50	1.375	0.228	0.280	0.384	0.202	0.328	0.472
1.75	1.625	0.779	0.955	1.339	0.616	0.999	1.471
2.00	1.875	2.461	3.018	4.358	2.108	3.418	4.889
2.25	2.125	7.225	8.861	13.219	5.015	8.131	13.020
2.50	2.375	16.036	19.668	32.887	12.830	20.803	33.822
2.75	2.625	28.461	34.907	67.794	22.126	35.875	69.698
3.00	2.875	19.674	24.130	91.924	14.321	23.220	92.918
3.25	3.125	5.526	6.778	98.701	3.519	5.706	98.623
3.50	3.375	0.817	1.002	99.703	0.636	1.031	99.655
3.75	3.625	0.186	0.228	99.931	0.149	0.242	99.896
4.00	3.875	0.046	0.056	99.988	0.049	0.079	99.976
5.00	4.500	0.000	0.000	99.988	0.000	0.000	99.976
5.00	4.500	0.010	0.012	100.000	0.015	0.024	100.000

