

Quality Control Statistical Summary

Onshore Grab Sample: SJ-29-BB

Sample Taken By: J. Ladner
 Sample Taken On: 12/01/03
 County: St. Johns

Latitude: 29° 51' 43.4"
 Longitude: 81° 16' 3.2"
 Datum: WGS 84

Statistical Results: Pre-CaCO3		
	Duplicate	Original
Mean:	2.7008 phi (0.1538 mm)	2.7198 phi (0.1518 mm)
Standard Dev:	0.3605 phi-units (0.7789 mm)	0.3686 phi-units (0.7745 mm)
Skewness:	-0.7620 dimensionless	-0.6070 dimensionless
Kurtosis:	7.8591 dimensionless	6.8632 dimensionless
5th Moment:	-30.5738 dimensionless	-19.3001 dimensionless
6th Moment:	265.0537 dimensionless	147.4659 dimensionless
RARD*:	0.1335 dimensionless	0.1355 dimensionless
Median:	2.5892 phi (0.1662 mm)	2.6030 phi (0.1646 mm)

Statistical Results: CaCO3		
	Duplicate	Original
Mean:	2.4923 phi (0.1777 mm)	2.9406 phi (0.1303 mm)
Standard Dev:	0.4384 phi-units (0.7379 mm)	0.5670 phi-units (0.675 mm)
Skewness:	-1.8386 dimensionless	-2.4114 dimensionless
Kurtosis:	11.4977 dimensionless	10.4285 dimensionless
5th Moment:	-62.7448 dimensionless	-39.7281 dimensionless
6th Moment:	448.8512 dimensionless	177.3364 dimensionless
RARD*:	0.1759 dimensionless	0.1928 dimensionless
Median:	2.3667 phi (0.1939 mm)	2.9089 phi (0.1331 mm)

Statistical Results: Post-CaCO3		
	Duplicate	Original
Mean:	2.7256 phi (0.1512 mm)	2.7082 phi (0.153 mm)
Standard Dev:	0.3619 phi-units (0.7781 mm)	0.3569 phi-units (0.7809 mm)
Skewness:	-0.5353 dimensionless	-0.4386 dimensionless
Kurtosis:	6.9623 dimensionless	6.2340 dimensionless
5th Moment:	-21.1751 dimensionless	-14.1562 dimensionless
6th Moment:	188.7822 dimensionless	119.9313 dimensionless
RARD*:	0.1328 dimensionless	0.1318 dimensionless
Median:	2.6061 phi (0.1642 mm)	2.5872 phi (0.1664 mm)

Additional Data	
Total Fines	
Original:	0.28 %
Duplicate:	0.29 %
Total Carbonates	
Original:	2.1 %
Duplicate:	2.15 %

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)

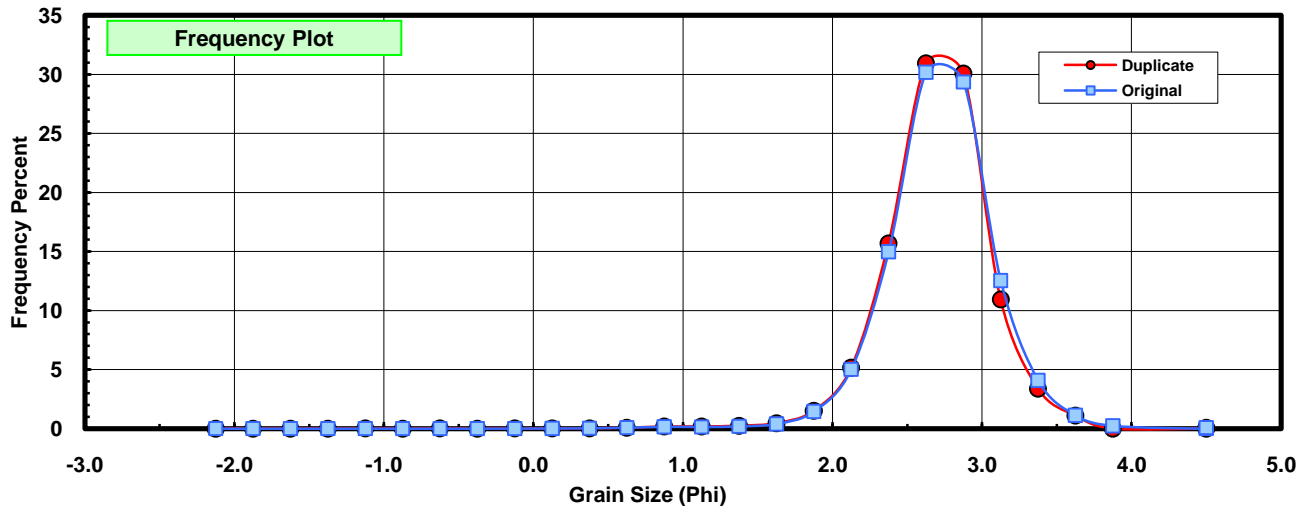
Pre-Digestion Grain Size Distribution

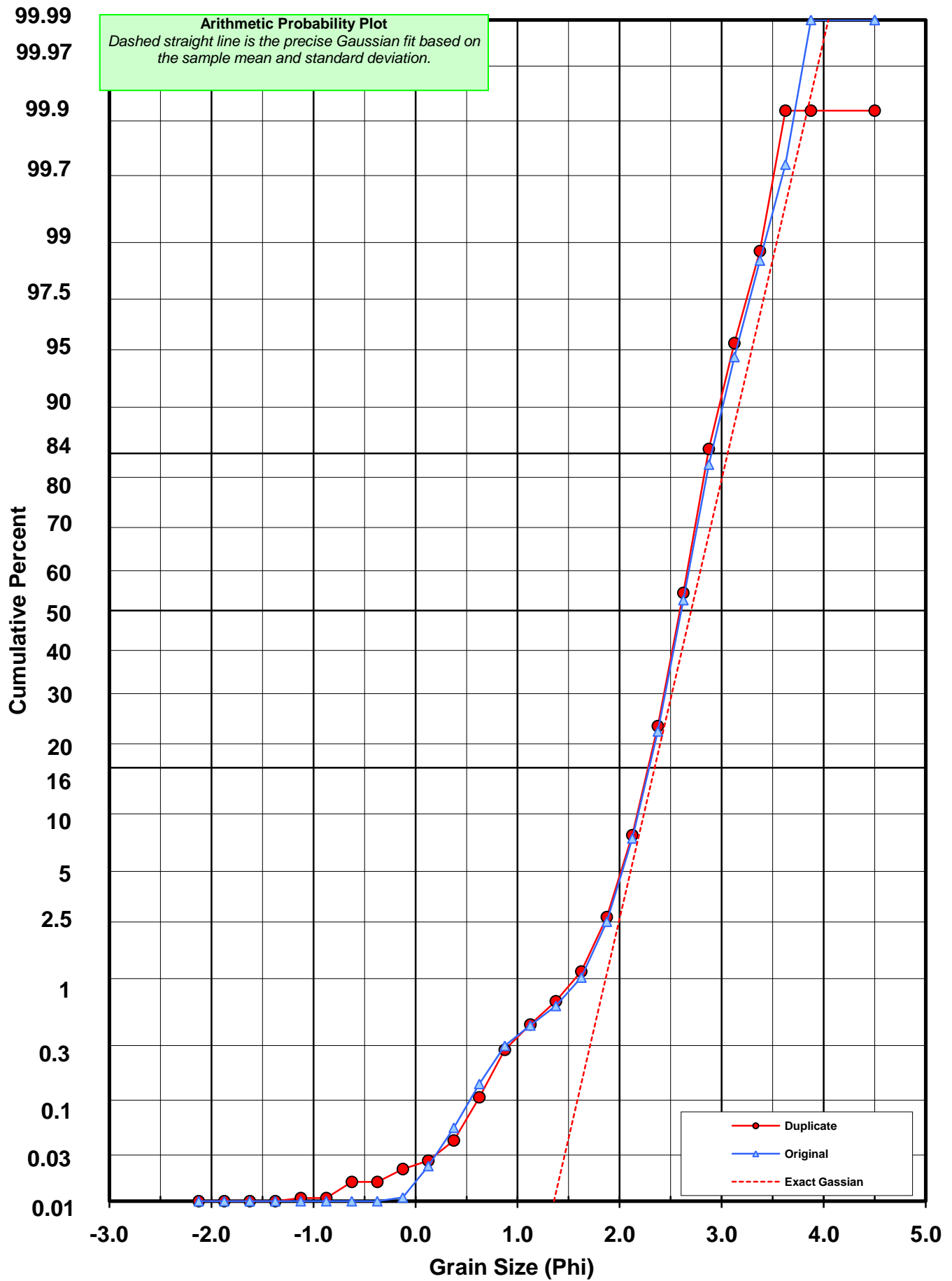
Onshore Grab Sample: SJ-29-BB

Total Duplicate Sample Mass: 55.782 grams

Total Original Sample Mass: 51.315 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	0.003	0.005	0.005	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.005	0.000	0.000	0.000
-0.50	-0.625	0.005	0.009	0.014	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.014	0.000	0.000	0.000
0.00	-0.125	0.004	0.007	0.022	0.003	0.006	0.006
0.25	0.125	0.003	0.005	0.027	0.009	0.018	0.023
0.50	0.375	0.009	0.016	0.043	0.017	0.033	0.057
0.75	0.625	0.035	0.063	0.106	0.042	0.082	0.138
1.00	0.875	0.094	0.169	0.274	0.081	0.158	0.296
1.25	1.125	0.096	0.172	0.446	0.073	0.142	0.439
1.50	1.375	0.134	0.240	0.687	0.098	0.191	0.630
1.75	1.625	0.256	0.459	1.146	0.208	0.406	1.036
2.00	1.875	0.843	1.511	2.657	0.744	1.451	2.487
2.25	2.125	2.874	5.152	7.809	2.573	5.018	7.505
2.50	2.375	8.750	15.686	23.495	7.679	14.977	22.482
2.75	2.625	17.258	30.938	54.433	15.468	30.169	52.651
3.00	2.875	16.776	30.074	84.508	15.050	29.353	82.004
3.25	3.125	6.099	10.934	95.441	6.428	12.537	94.541
3.50	3.375	1.889	3.386	98.828	2.097	4.090	98.631
3.75	3.625	0.609	1.092	99.919	0.579	1.129	99.760
4.00	3.875	0.000	0.000	99.919	0.123	0.240	100.000
5.00	4.500	0.000	0.000	99.919	0.000	0.000	100.000
5.00	4.500	0.045	0.081	100.000	0.043	0.084	100.084



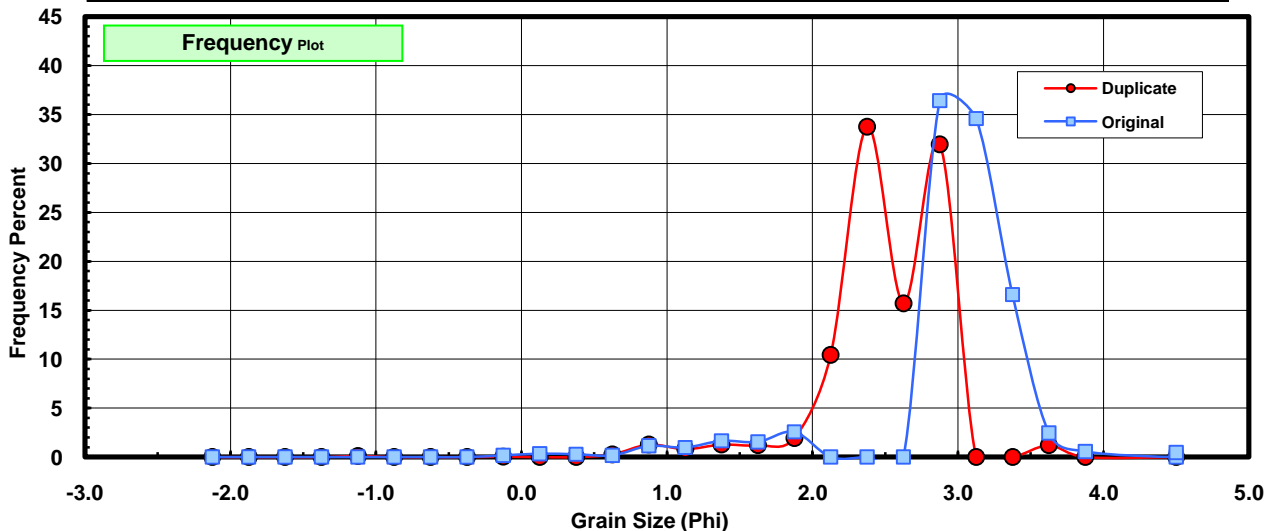


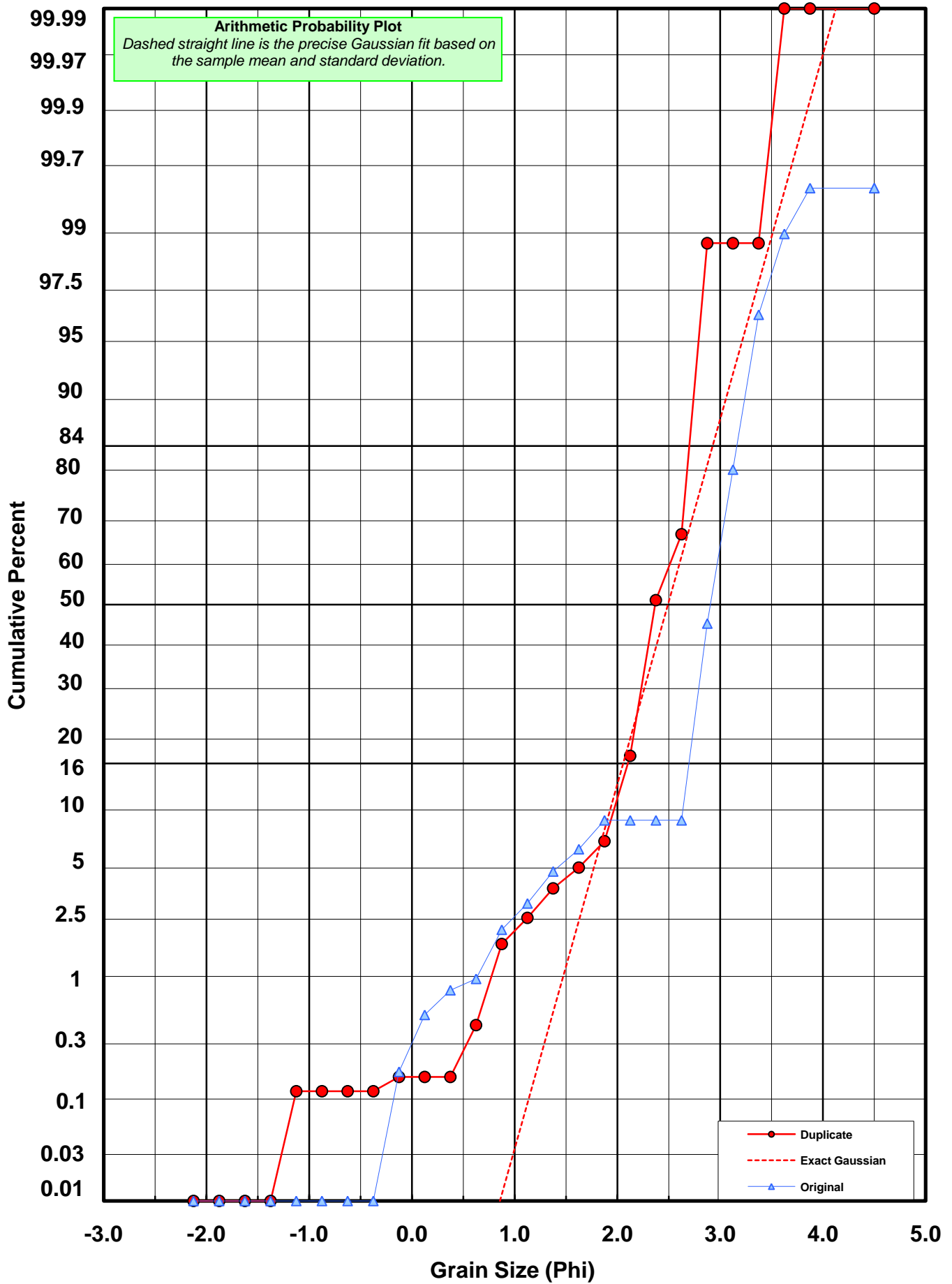
Carbonate Grain Size Distribution

Onshore Grab Sample: SJ-29-BB

Total Duplicate Carbonate Mass: 2.578 grams
% Carbonate in Duplicate: 2.1 %
Total Original Carbonate Mass: 1.746 grams
% Carbonate in Original: 2.1 %

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	0.000	0.000	0.000	0.000	0.000	0.000
-1.00	-1.125	0.003	0.116	0.116	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.116	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.116	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.116	0.000	0.000	0.000
0.00	-0.125	0.001	0.039	0.155	0.003	0.172	0.172
0.25	0.125	0.000	0.000	0.155	0.006	0.344	0.515
0.50	0.375	0.000	0.000	0.155	0.005	0.286	0.802
0.75	0.625	0.007	0.272	0.427	0.003	0.172	0.974
1.00	0.875	0.033	1.280	1.707	0.020	1.145	2.119
1.25	1.125	0.021	0.815	2.521	0.017	0.974	3.093
1.50	1.375	0.033	1.280	3.801	0.029	1.661	4.754
1.75	1.625	0.031	1.202	5.004	0.027	1.546	6.300
2.00	1.875	0.050	1.939	6.943	0.045	2.577	8.877
2.25	2.125	0.269	10.434	17.378	0.000	0.000	8.877
2.50	2.375	0.870	33.747	51.125	0.000	0.000	8.877
2.75	2.625	0.405	15.710	66.835	0.000	0.000	8.877
3.00	2.875	0.824	31.963	98.798	0.636	36.426	45.304
3.25	3.125	0.000	0.000	98.798	0.604	34.593	79.897
3.50	3.375	0.000	0.000	98.798	0.290	16.609	96.506
3.75	3.625	0.031	1.202	100.000	0.043	2.463	98.969
4.00	3.875	0.000	0.000	100.000	0.010	0.573	99.542
5.00	4.500	0.000	0.000	100.000	0.000	0.000	99.542
5.00	4.500	0.000	0.000	100.000	0.008	0.458	100.000





Post-Digestion Grain Size Distribution

Onshore Grab Sample: SJ-29-BB

Total Duplicate Digested Mass: 54.734 grams
% Silica in Duplicate: 97.9 %
Total Original Digested Mass: 50.238 grams
% Silica in Original: 97.9 %

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	0.006	0.011	0.011	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.011	0.000	0.000	0.000
0.00	-0.125	0.003	0.005	0.016	0.000	0.000	0.000
0.25	0.125	0.004	0.007	0.024	0.003	0.006	0.006
0.50	0.375	0.009	0.016	0.040	0.012	0.024	0.030
0.75	0.625	0.028	0.051	0.091	0.039	0.078	0.107
1.00	0.875	0.061	0.111	0.203	0.061	0.121	0.229
1.25	1.125	0.075	0.137	0.340	0.056	0.111	0.340
1.50	1.375	0.101	0.185	0.524	0.069	0.137	0.478
1.75	1.625	0.225	0.411	0.935	0.181	0.360	0.838
2.00	1.875	0.793	1.449	2.384	0.699	1.391	2.229
2.25	2.125	2.605	4.759	7.144	2.762	5.498	7.727
2.50	2.375	7.880	14.397	21.541	7.824	15.574	23.301
2.75	2.625	16.853	30.791	52.331	15.803	31.456	54.757
3.00	2.875	15.952	29.145	81.476	14.414	28.691	83.449
3.25	3.125	7.272	13.286	94.762	5.824	11.593	95.042
3.50	3.375	2.067	3.776	98.538	1.807	3.597	98.638
3.75	3.625	0.578	1.056	99.594	0.536	1.067	99.705
4.00	3.875	0.175	0.320	99.914	0.113	0.225	99.930
5.00	4.500	0.000	0.000	99.914	0.000	0.000	99.930
5.00	4.500	0.047	0.086	100.000	0.035	0.070	100.000

