

Quality Control Statistical Summary

Onshore Grab Sample: SJ-36-MB

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

Latitude: 29° 45' 59.7"
 Longitude: 81° 15' 2.3"
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	2.7577	phi (0.1479 mm)	2.7643	phi (0.1472 mm)
Standard Dev:	0.2706	phi-units (0.829 mm)	0.2777	phi-units (0.8249 mm)
Skewness:	-0.0537	dimensionless	-0.0702	dimensionless
Kurtosis:	4.7741	dimensionless	5.9965	dimensionless
5th Moment:	-9.9331	dimensionless	-15.9465	dimensionless
6th Moment:	160.3891	dimensionless	235.6030	dimensionless
RARD*:	0.0981	dimensionless	0.1005	dimensionless
Median:	2.6334	phi (0.1612 mm)	2.6410	phi (0.1603 mm)

Statistical Results: CaCO3				
	Duplicate		Original	
Mean:	2.9877	phi (0.1261 mm)	2.9675	phi (0.1278 mm)
Standard Dev:	0.3943	phi-units (0.7609 mm)	0.3572	phi-units (0.7807 mm)
Skewness:	-1.6055	dimensionless	-2.7439	dimensionless
Kurtosis:	6.4699	dimensionless	23.8006	dimensionless
5th Moment:	-29.5323	dimensionless	#####	dimensionless
6th Moment:	208.3509	dimensionless	#####	dimensionless
RARD*:	0.1320	dimensionless	0.1204	dimensionless
Median:	2.9809	phi (0.1267 mm)	2.8459	phi (0.1391 mm)

Statistical Results: Post-CaCO3				
	Duplicate		Original	
Mean:	2.7505	phi (0.1486 mm)	2.7493	phi (0.1487 mm)
Standard Dev:	0.2679	phi-units (0.8305 mm)	0.2696	phi-units (0.8296 mm)
Skewness:	-0.0731	dimensionless	0.1248	dimensionless
Kurtosis:	6.5006	dimensionless	4.3678	dimensionless
5th Moment:	-20.9337	dimensionless	-0.5214	dimensionless
6th Moment:	301.5267	dimensionless	77.7956	dimensionless
RARD*:	0.0974	dimensionless	0.0981	dimensionless
Median:	2.6229	phi (0.1623 mm)	2.6184	phi (0.1628 mm)

Additional Data	
Total Fines	
Original:	0.53 %
Duplicate:	0.47 %
Total Carbonates	
Original:	1.77 %
Duplicate:	1.59 %

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)

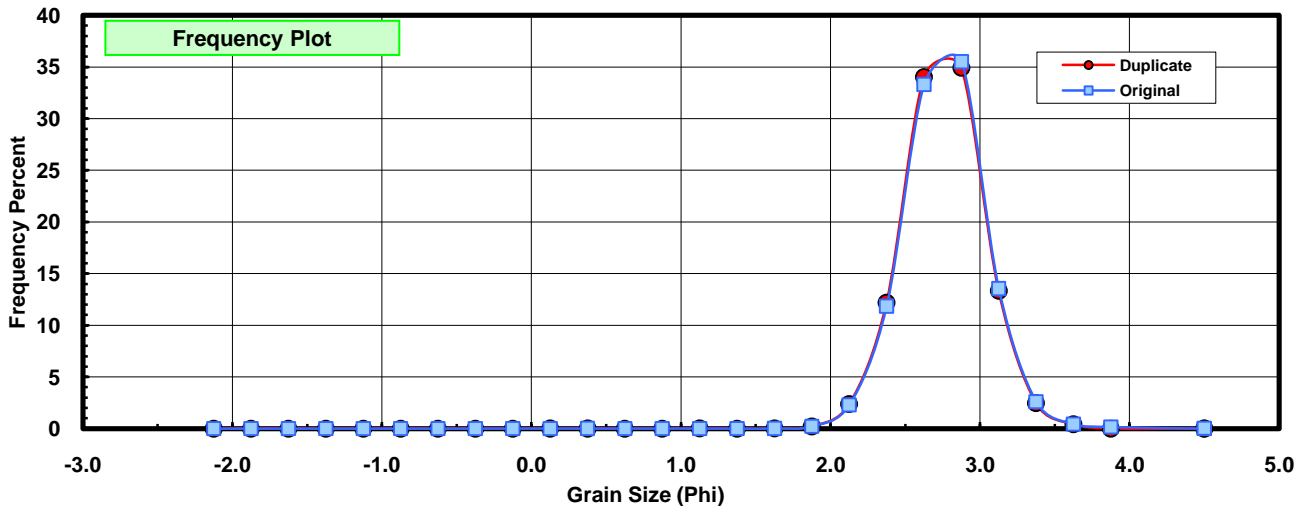
Pre-Digestion Grain Size Distribution

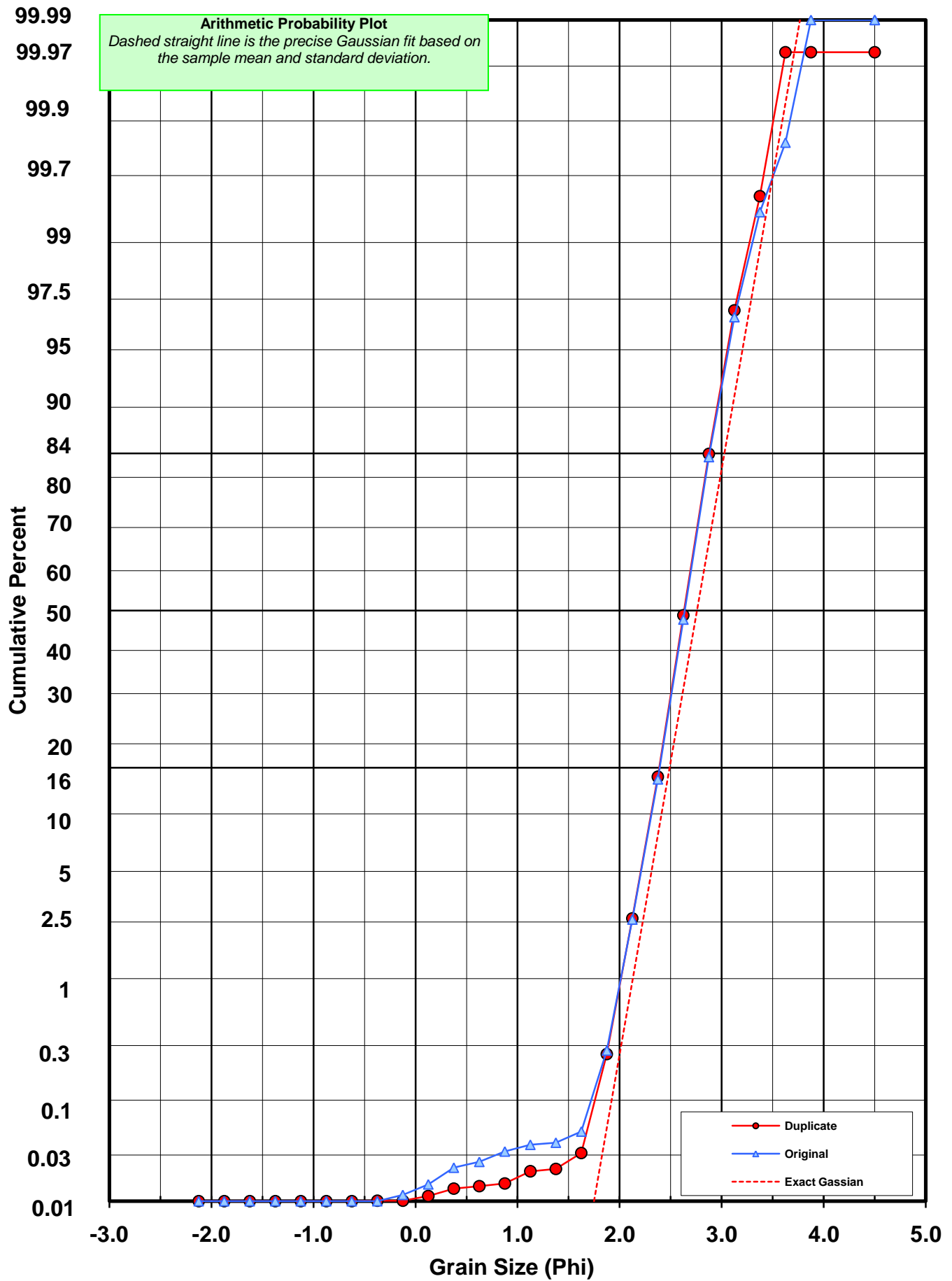
Onshore Grab Sample: SJ-36-MB

Total Duplicate Sample Mass: 74.313 grams

Total Original Sample Mass: 53.694 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	0.000	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	0.002	0.003	0.003	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.003	0.004	0.007	0.007
0.25	0.125	0.003	0.004	0.007	0.003	0.006	0.013
0.50	0.375	0.003	0.004	0.011	0.005	0.009	0.022
0.75	0.625	0.001	0.001	0.012	0.002	0.004	0.026
1.00	0.875	0.001	0.001	0.013	0.004	0.007	0.034
1.25	1.125	0.005	0.007	0.020	0.003	0.006	0.039
1.50	1.375	0.001	0.001	0.022	0.001	0.002	0.041
1.75	1.625	0.008	0.011	0.032	0.006	0.011	0.052
2.00	1.875	0.163	0.219	0.252	0.117	0.218	0.270
2.25	2.125	1.754	2.360	2.612	1.233	2.297	2.567
2.50	2.375	9.058	12.189	14.801	6.366	11.860	14.427
2.75	2.625	25.289	34.030	48.831	17.877	33.305	47.732
3.00	2.875	25.951	34.921	83.753	19.060	35.509	83.240
3.25	3.125	9.909	13.334	97.087	7.277	13.557	96.798
3.50	3.375	1.836	2.471	99.557	1.399	2.606	99.404
3.75	3.625	0.313	0.421	99.978	0.237	0.442	99.845
4.00	3.875	0.000	0.000	99.978	0.083	0.155	100.000
5.00	4.500	0.000	0.000	99.978	0.000	0.000	100.000
5.00	4.500	0.016	0.022	100.000	0.017	0.032	100.032



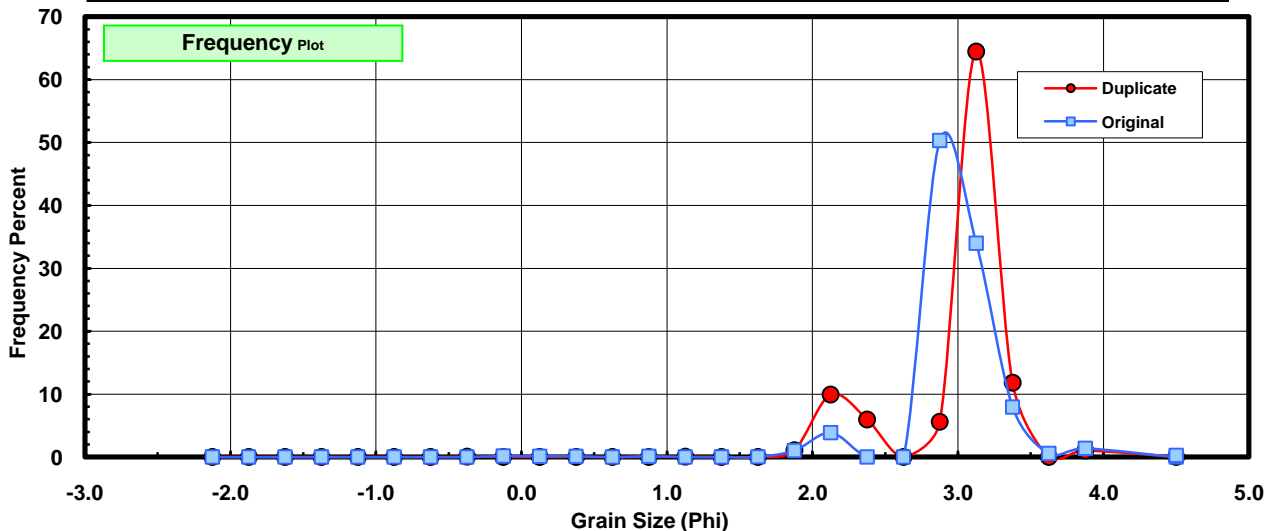


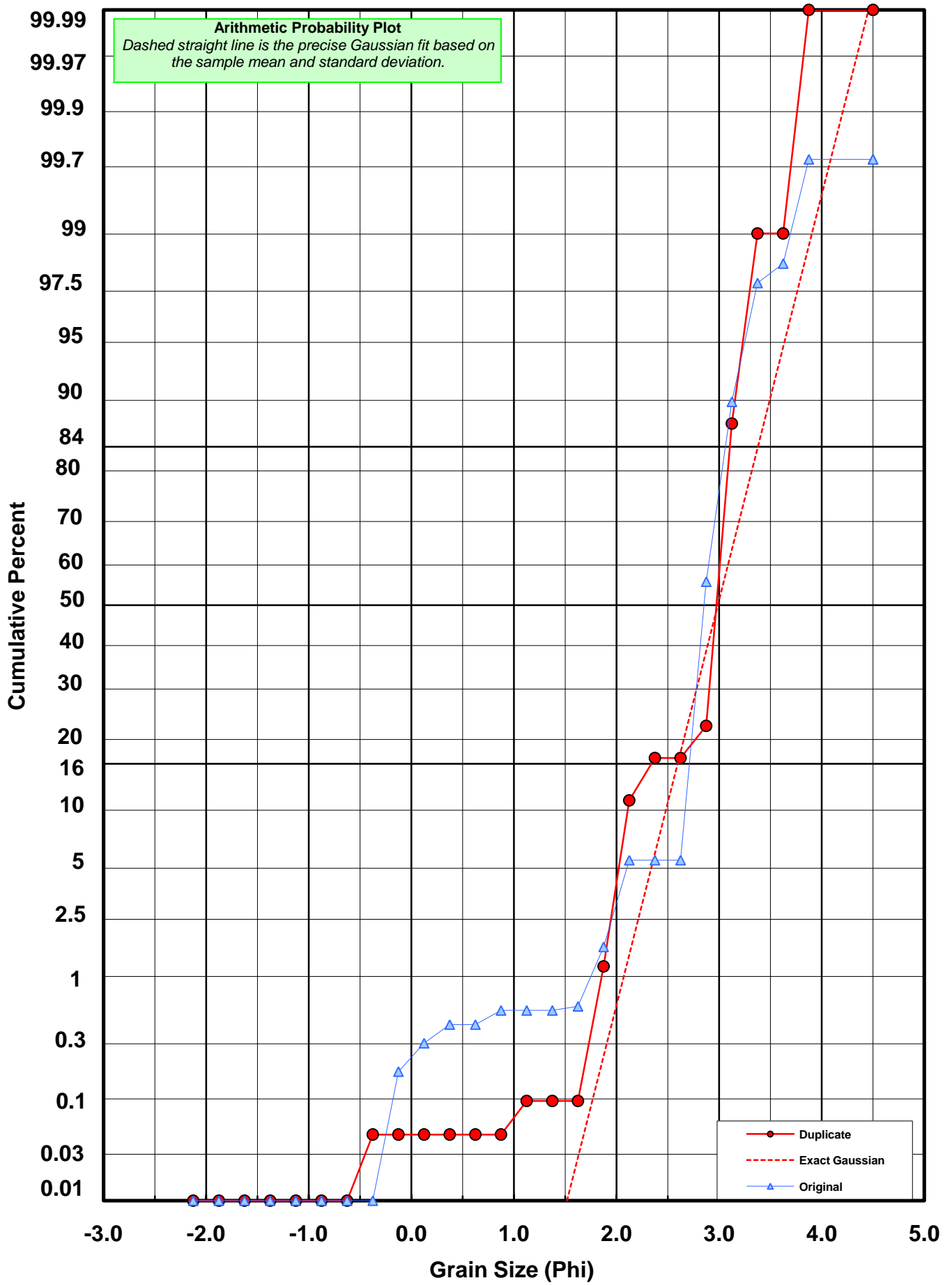
Carbonate Grain Size Distribution

Onshore Grab Sample: SJ-36-MB

Total Duplicate Carbonate Mass: 2.089 grams
% Carbonate in Duplicate: 1.6 %
Total Original Carbonate Mass: 2.324 grams
% Carbonate in Original: 1.8 %

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	0.000	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	0.001	0.048	0.048	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.048	0.004	0.172	0.172
0.25	0.125	0.000	0.000	0.048	0.003	0.129	0.301
0.50	0.375	0.000	0.000	0.048	0.003	0.129	0.430
0.75	0.625	0.000	0.000	0.048	0.000	0.000	0.430
1.00	0.875	0.000	0.000	0.048	0.003	0.129	0.559
1.25	1.125	0.001	0.048	0.096	0.000	0.000	0.559
1.50	1.375	0.000	0.000	0.096	0.000	0.000	0.559
1.75	1.625	0.000	0.000	0.096	0.001	0.043	0.602
2.00	1.875	0.023	1.101	1.197	0.024	1.033	1.635
2.25	2.125	0.207	9.909	11.106	0.090	3.873	5.508
2.50	2.375	0.125	5.984	17.090	0.000	0.000	5.508
2.75	2.625	0.000	0.000	17.090	0.000	0.000	5.508
3.00	2.875	0.117	5.601	22.690	1.170	50.344	55.852
3.25	3.125	1.347	64.481	87.171	0.790	33.993	89.845
3.50	3.375	0.247	11.824	98.995	0.185	7.960	97.806
3.75	3.625	0.000	0.000	98.995	0.013	0.559	98.365
4.00	3.875	0.021	1.005	100.000	0.032	1.377	99.742
5.00	4.500	0.000	0.000	100.000	0.000	0.000	99.742
5.00	4.500	0.000	0.000	100.000	0.006	0.258	100.000





Post-Digestion Grain Size Distribution

Onshore Grab Sample: SJ-36-MB

Total Duplicate Digested Mass: 73.234 grams
% Silica in Duplicate: 98.4 %
Total Original Digested Mass: 52.741 grams
% Silica in Original: 98.2 %

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	0.001	0.001	0.001	0.000	0.000	0.000
0.00	-0.125	0.006	0.008	0.010	0.000	0.000	0.000
0.25	0.125	0.003	0.004	0.014	0.000	0.000	0.000
0.50	0.375	0.004	0.005	0.019	0.002	0.004	0.004
0.75	0.625	0.008	0.011	0.030	0.003	0.006	0.009
1.00	0.875	0.001	0.001	0.031	0.001	0.002	0.011
1.25	1.125	0.004	0.005	0.037	0.006	0.011	0.023
1.50	1.375	0.003	0.004	0.041	0.001	0.002	0.025
1.75	1.625	0.017	0.023	0.064	0.005	0.009	0.034
2.00	1.875	0.140	0.191	0.255	0.093	0.176	0.210
2.25	2.125	1.547	2.112	2.368	1.143	2.167	2.378
2.50	2.375	8.933	12.198	14.566	6.835	12.960	15.337
2.75	2.625	26.166	35.729	50.295	18.775	35.598	50.936
3.00	2.875	25.834	35.276	85.571	17.890	33.920	84.856
3.25	3.125	8.562	11.691	97.262	6.487	12.300	97.156
3.50	3.375	1.589	2.170	99.432	1.214	2.302	99.458
3.75	3.625	0.318	0.434	99.866	0.224	0.425	99.882
4.00	3.875	0.080	0.109	99.975	0.051	0.097	99.979
5.00	4.500	0.000	0.000	99.975	0.000	0.000	99.979
5.00	4.500	0.018	0.025	100.000	0.011	0.021	100.000

