

Quality Control Statistical Summary

Onshore Grab Sample: SJ-02-SS

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

Latitude: 30° 14' 31.4"
 Longitude: 81° 22' 38.8"
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	2.4599	phi (0.1818 mm)	2.5171	phi (0.1747 mm)
Standard Dev:	0.4096	phi-units (0.7528 mm)	0.3903	phi-units (0.763 mm)
Skewness:	-0.3708	dimensionless	-0.3667	dimensionless
Kurtosis:	3.4536	dimensionless	4.2278	dimensionless
5th Moment:	-3.4775	dimensionless	-6.7798	dimensionless
6th Moment:	29.8128	dimensionless	62.2303	dimensionless
RARD*:	0.1665	dimensionless	0.1551	dimensionless
Median:	2.3846	phi (0.1915 mm)	2.4271	phi (0.1859 mm)

Statistical Results: CaCO3				
	Duplicate		Original	
Mean:	2.1388	phi (0.2271 mm)	2.8643	phi (0.1373 mm)
Standard Dev:	0.5347	phi-units (0.6903 mm)	0.5300	phi-units (0.6926 mm)
Skewness:	-0.5034	dimensionless	-0.7743	dimensionless
Kurtosis:	3.4035	dimensionless	3.1803	dimensionless
5th Moment:	-8.0273	dimensionless	-9.0437	dimensionless
6th Moment:	34.3562	dimensionless	46.5173	dimensionless
RARD*:	0.2500	dimensionless	0.1850	dimensionless
Median:	2.0153	phi (0.2474 mm)	2.8643	phi (0.1373 mm)

Statistical Results: Post-CaCO3				
	Duplicate		Original	
Mean:	2.4707	phi (0.1804 mm)	2.4996	phi (0.1768 mm)
Standard Dev:	0.4056	phi-units (0.7549 mm)	0.3745	phi-units (0.7713 mm)
Skewness:	-0.2688	dimensionless	-0.4948	dimensionless
Kurtosis:	3.3564	dimensionless	4.5623	dimensionless
5th Moment:	-1.3262	dimensionless	-8.4445	dimensionless
6th Moment:	23.5051	dimensionless	75.7572	dimensionless
RARD*:	0.1642	dimensionless	0.1498	dimensionless
Median:	2.3894	phi (0.1909 mm)	2.4149	phi (0.1875 mm)

Additional Data	
Total Fines	
Original:	1.09 %
Duplicate:	1.19 %
Total Carbonates	
Original:	3.73 %
Duplicate:	2.33 %

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)

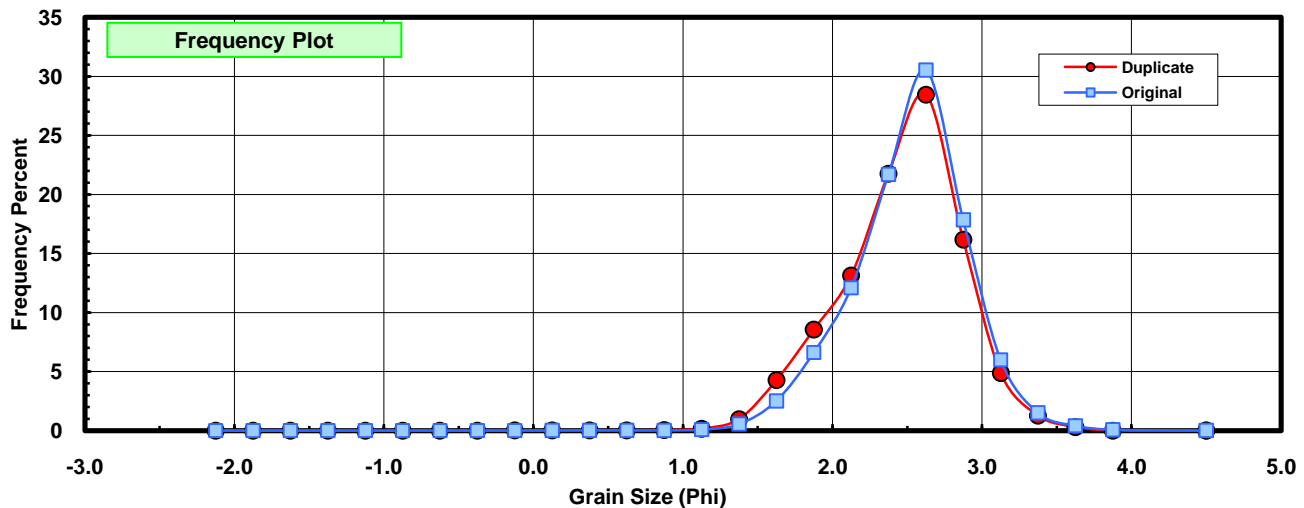
Pre-Digestion Grain Size Distribution

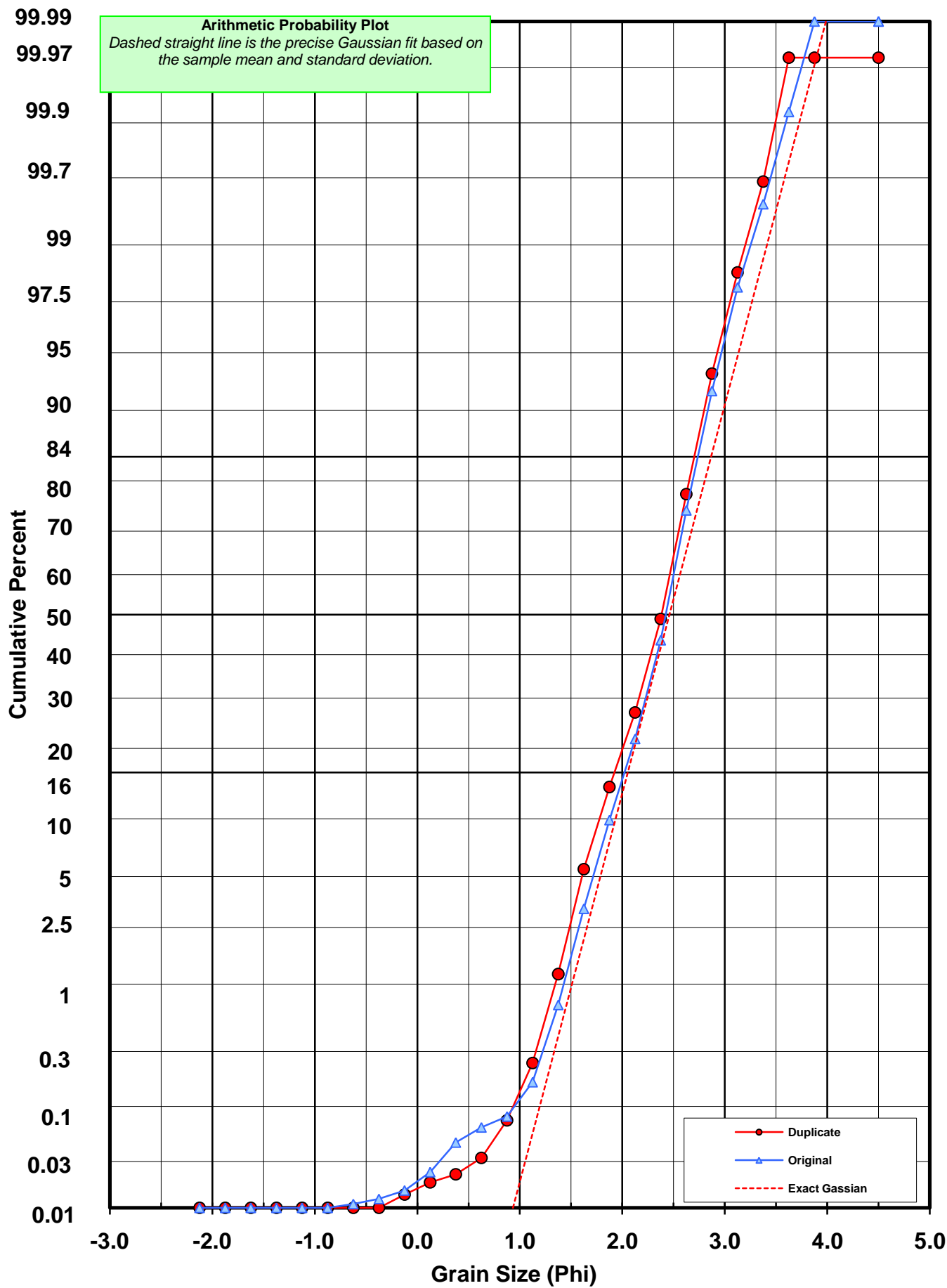
Onshore Grab Sample: SJ-02-SS

Total Duplicate Sample Mass: 62.731 grams

Total Original Sample Mass: 67.714 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	0.004	0.006	0.006
-0.25	-0.375	0.000	0.000	0.000	0.002	0.003	0.009
0.00	-0.125	0.007	0.011	0.011	0.003	0.004	0.013
0.25	0.125	0.004	0.006	0.018	0.007	0.010	0.024
0.50	0.375	0.003	0.005	0.022	0.016	0.024	0.047
0.75	0.625	0.007	0.011	0.033	0.012	0.018	0.065
1.00	0.875	0.026	0.041	0.075	0.011	0.016	0.081
1.25	1.125	0.102	0.163	0.238	0.055	0.081	0.162
1.50	1.375	0.607	0.968	1.205	0.372	0.550	0.712
1.75	1.625	2.674	4.263	5.468	1.705	2.519	3.231
2.00	1.875	5.364	8.551	14.019	4.479	6.616	9.847
2.25	2.125	8.234	13.126	27.144	8.185	12.091	21.938
2.50	2.375	13.652	21.763	48.907	14.688	21.697	43.635
2.75	2.625	17.850	28.455	77.362	20.672	30.537	74.171
3.00	2.875	10.143	16.169	93.531	12.077	17.840	92.011
3.25	3.125	3.062	4.881	98.412	4.056	5.991	98.003
3.50	3.375	0.795	1.267	99.680	1.018	1.504	99.507
3.75	3.625	0.186	0.297	99.976	0.280	0.414	99.920
4.00	3.875	0.000	0.000	99.976	0.054	0.080	100.000
5.00	4.500	0.000	0.000	99.976	0.000	0.000	100.000
5.00	4.500	0.015	0.024	100.000	0.018	0.027	100.027



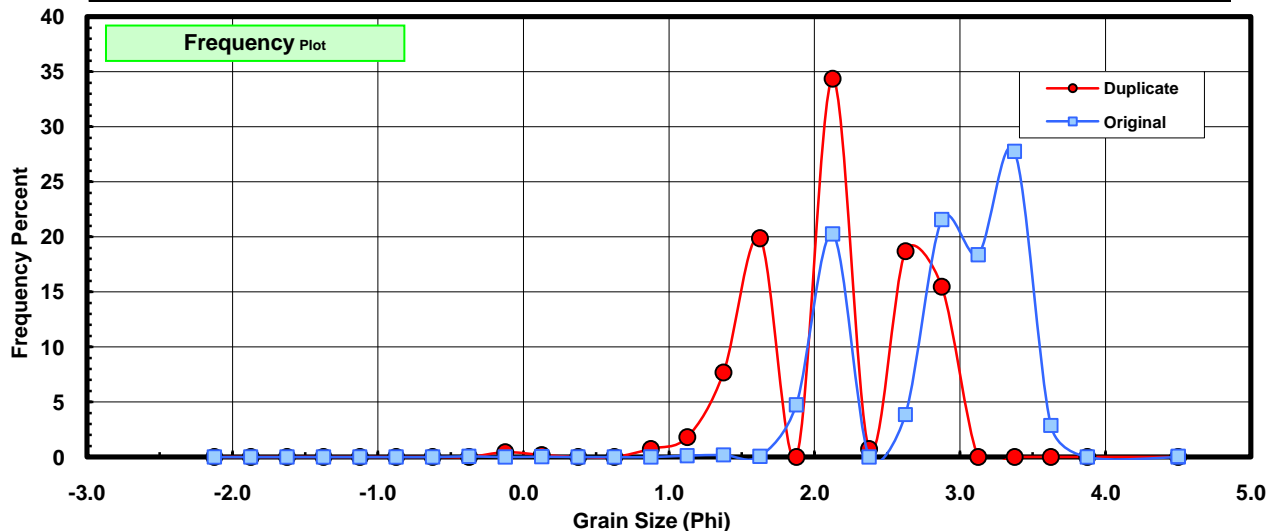


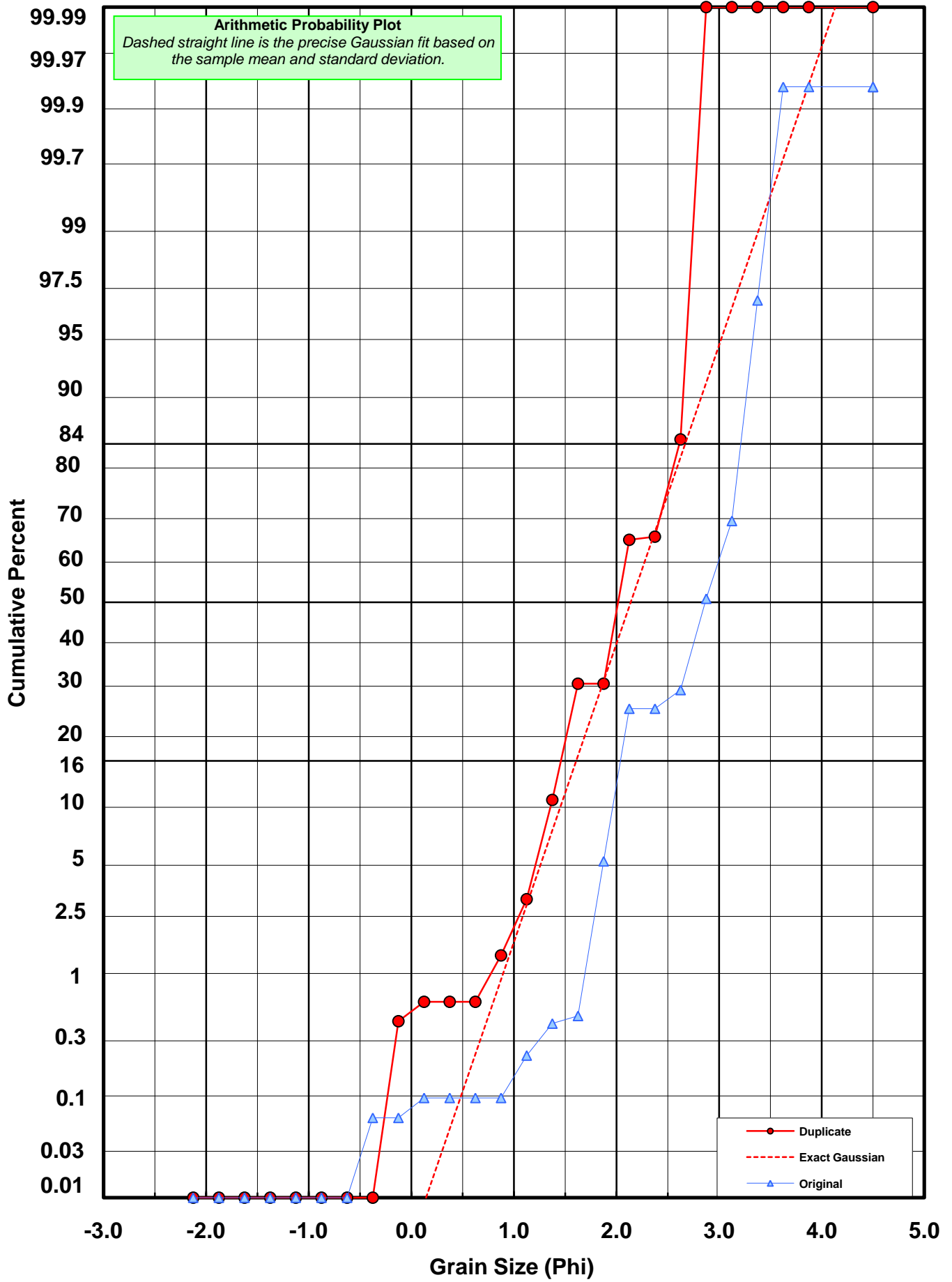
Carbonate Grain Size Distribution

Onshore Grab Sample: SJ-02-SS

Total Duplicate Carbonate Mass: 1.615 grams
% Carbonate in Duplicate: 2.3 %
Total Original Carbonate Mass: 3.134 grams
% Carbonate in Original: 3.7 %

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	0.000	0.000	0.000	0.002	0.064	0.064
0.00	-0.125	0.007	0.433	0.433	0.000	0.000	0.064
0.25	0.125	0.003	0.186	0.619	0.001	0.032	0.096
0.50	0.375	0.000	0.000	0.619	0.000	0.000	0.096
0.75	0.625	0.000	0.000	0.619	0.000	0.000	0.096
1.00	0.875	0.012	0.743	1.362	0.000	0.000	0.096
1.25	1.125	0.029	1.796	3.158	0.004	0.128	0.223
1.50	1.375	0.124	7.678	10.836	0.006	0.191	0.415
1.75	1.625	0.321	19.876	30.712	0.002	0.064	0.479
2.00	1.875	0.000	0.000	30.712	0.149	4.754	5.233
2.25	2.125	0.555	34.365	65.077	0.635	20.262	25.495
2.50	2.375	0.012	0.743	65.820	0.000	0.000	25.495
2.75	2.625	0.302	18.700	84.520	0.121	3.861	29.355
3.00	2.875	0.250	15.480	100.000	0.676	21.570	50.925
3.25	3.125	0.000	0.000	100.000	0.576	18.379	69.304
3.50	3.375	0.000	0.000	100.000	0.870	27.760	97.064
3.75	3.625	0.000	0.000	100.000	0.090	2.872	99.936
4.00	3.875	0.000	0.000	100.000	0.000	0.000	99.936
5.00	4.500	0.000	0.000	100.000	0.000	0.000	99.936
5.00	4.500	0.000	0.000	100.000	0.002	0.064	100.000





Post-Digestion Grain Size Distribution

Onshore Grab Sample: SJ-02-SS

Total Duplicate Digested Mass: 61.316 grams
% Silica in Duplicate: 97.7 %
Total Original Digested Mass: 65.185 grams
% Silica in Original: 96.3 %

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	0.004	0.006	0.006
-0.25	-0.375	0.000	0.000	0.000	0.000	0.000	0.006
0.00	-0.125	0.000	0.000	0.000	0.005	0.008	0.014
0.25	0.125	0.001	0.002	0.002	0.006	0.009	0.023
0.50	0.375	0.004	0.007	0.008	0.018	0.028	0.051
0.75	0.625	0.010	0.016	0.024	0.014	0.021	0.072
1.00	0.875	0.014	0.023	0.047	0.015	0.023	0.095
1.25	1.125	0.073	0.119	0.166	0.051	0.078	0.173
1.50	1.375	0.483	0.788	0.954	0.366	0.561	0.735
1.75	1.625	2.353	3.837	4.792	1.703	2.613	3.347
2.00	1.875	5.388	8.787	13.579	4.330	6.643	9.990
2.25	2.125	7.679	12.524	26.102	7.550	11.582	21.572
2.50	2.375	13.640	22.245	48.348	15.247	23.390	44.963
2.75	2.625	17.548	28.619	76.967	20.551	31.527	76.490
3.00	2.875	9.893	16.134	93.101	11.401	17.490	93.980
3.25	3.125	3.160	5.154	98.255	3.480	5.339	99.319
3.50	3.375	0.803	1.310	99.565	0.148	0.227	99.546
3.75	3.625	0.195	0.318	99.883	0.190	0.291	99.837
4.00	3.875	0.055	0.090	99.972	0.090	0.138	99.975
5.00	4.500	0.000	0.000	99.972	0.000	0.000	99.975
5.00	4.500	0.017	0.028	100.000	0.016	0.025	100.000

