

Quality Control Statistical Summary

Onshore Grab Sample: SJ-39-BB

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

Latitude: 29° 43' 37.9"
 Longitude: 81° 14' 8.1"
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	2.7046	phi (0.1534 mm)	2.6997	phi (0.1539 mm)
Standard Dev:	0.2835	phi-units (0.8216 mm)	0.2784	phi-units (0.8245 mm)
Skewness:	-0.0567	dimensionless	0.1535	dimensionless
Kurtosis:	5.1115	dimensionless	5.1705	dimensionless
5th Moment:	-0.8661	dimensionless	3.7504	dimensionless
6th Moment:	96.1925	dimensionless	88.8037	dimensionless
RARD*:	0.1048	dimensionless	0.1031	dimensionless
Median:	2.5793	phi (0.1673 mm)	2.5694	phi (0.1685 mm)

Statistical Results: CaCO3				
	Duplicate		Original	
Mean:	2.4638	phi (0.1813 mm)	2.6700	phi (0.1571 mm)
Standard Dev:	0.4869	phi-units (0.7136 mm)	0.3400	phi-units (0.79 mm)
Skewness:	0.8636	dimensionless	-1.1916	dimensionless
Kurtosis:	4.4602	dimensionless	9.7680	dimensionless
5th Moment:	3.3510	dimensionless	-39.8786	dimensionless
6th Moment:	36.5033	dimensionless	286.1724	dimensionless
RARD*:	0.1976	dimensionless	0.1273	dimensionless
Median:	2.2298	phi (0.2132 mm)	2.5720	phi (0.1682 mm)

Statistical Results: Post-CaCO3				
	Duplicate		Original	
Mean:	2.7107	phi (0.1528 mm)	2.7013	phi (0.1538 mm)
Standard Dev:	0.2814	phi-units (0.8228 mm)	0.2780	phi-units (0.8248 mm)
Skewness:	0.0529	dimensionless	0.2183	dimensionless
Kurtosis:	5.3286	dimensionless	4.8338	dimensionless
5th Moment:	1.6860	dimensionless	6.7924	dimensionless
6th Moment:	97.7792	dimensionless	69.3526	dimensionless
RARD*:	0.1038	dimensionless	0.1029	dimensionless
Median:	2.5837	phi (0.1668 mm)	2.5699	phi (0.1684 mm)

Additional Data	
Total Fines	
Original:	0.06 %
Duplicate:	1.27 %
Total Carbonates	
Original:	1.46 %
Duplicate:	1.44 %

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)

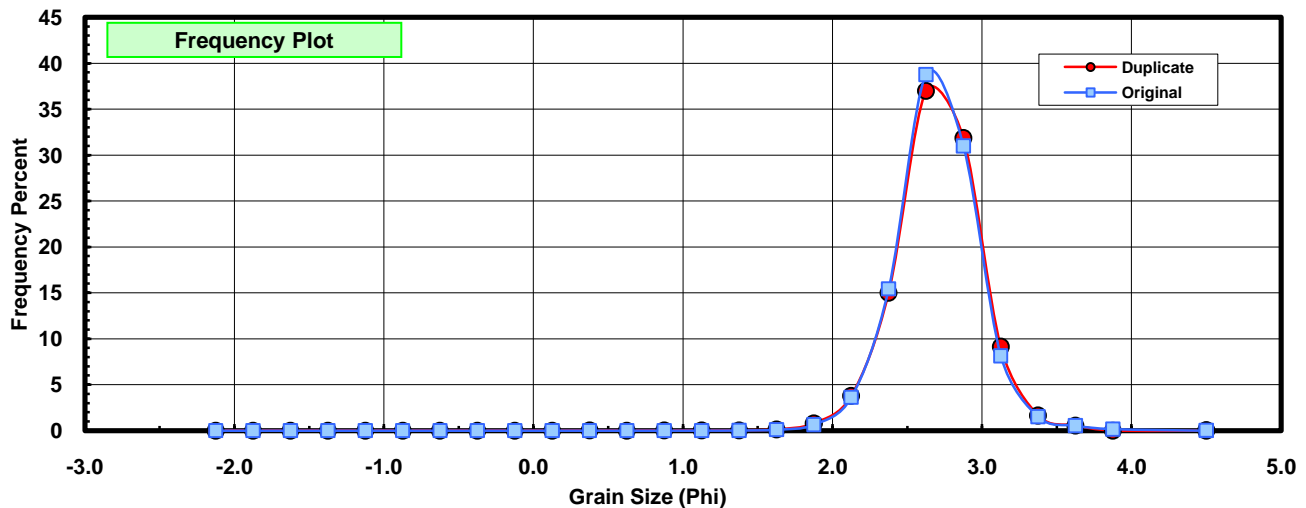
Pre-Digestion Grain Size Distribution

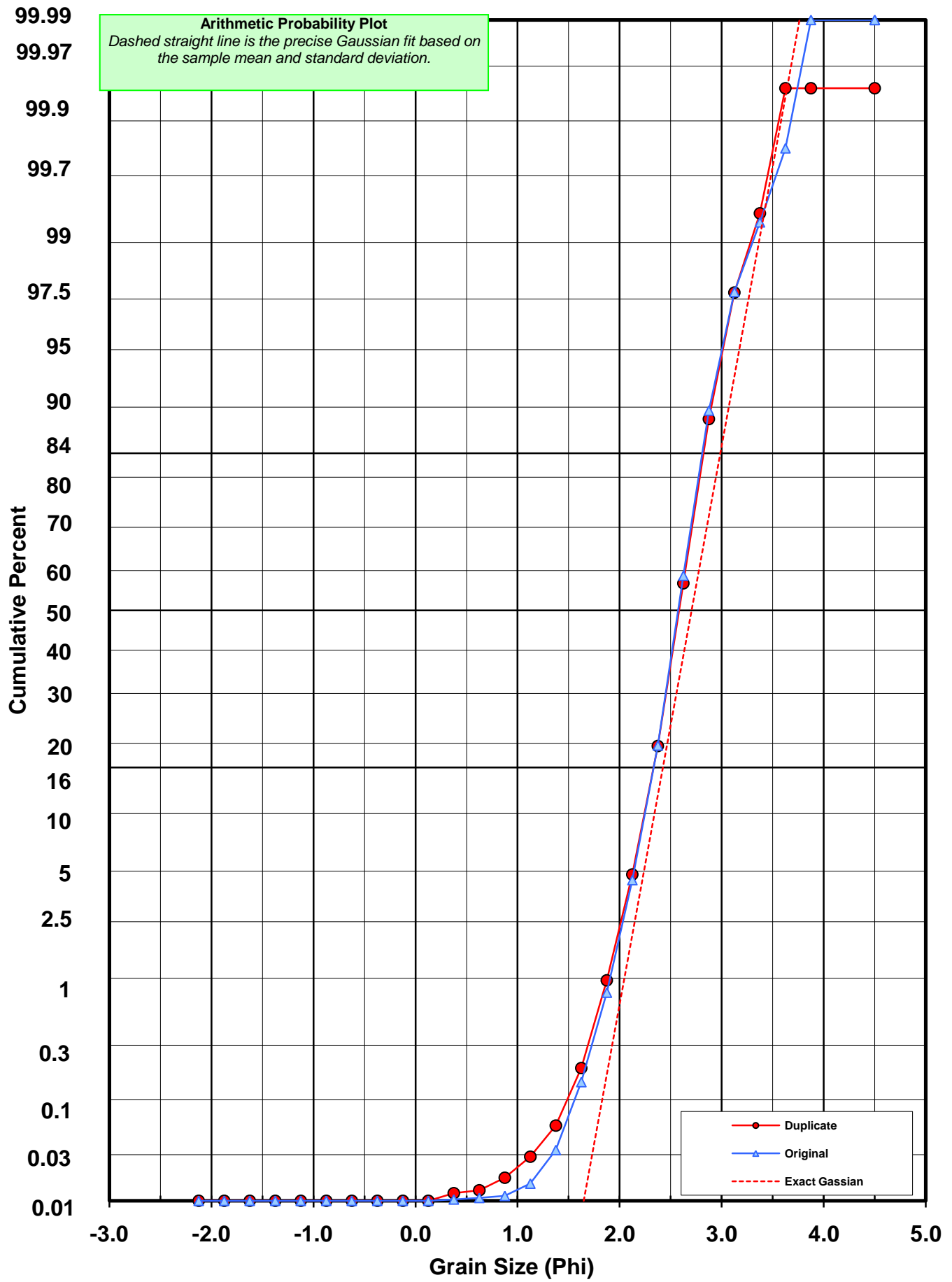
Onshore Grab Sample: SJ-39-BB

Total Duplicate Sample Mass: 61.279 grams

Total Original Sample Mass: 75.579 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	0.000	0.000	0.000	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000	0.001	0.001	0.001
0.50	0.375	0.005	0.008	0.008	0.002	0.003	0.004
0.75	0.625	0.001	0.002	0.010	0.001	0.001	0.005
1.00	0.875	0.004	0.007	0.016	0.001	0.001	0.007
1.25	1.125	0.008	0.013	0.029	0.005	0.007	0.013
1.50	1.375	0.018	0.029	0.059	0.016	0.021	0.034
1.75	1.625	0.080	0.131	0.189	0.082	0.109	0.143
2.00	1.875	0.486	0.793	0.982	0.493	0.653	0.796
2.25	2.125	2.317	3.781	4.763	2.738	3.624	4.420
2.50	2.375	9.194	15.004	19.767	11.664	15.439	19.859
2.75	2.625	22.673	37.000	56.767	29.286	38.765	58.624
3.00	2.875	19.517	31.849	88.616	23.418	30.998	89.621
3.25	3.125	5.596	9.132	97.748	6.156	8.148	97.770
3.50	3.375	1.006	1.642	99.390	1.143	1.513	99.283
3.75	3.625	0.343	0.560	99.949	0.411	0.544	99.827
4.00	3.875	0.000	0.000	99.949	0.131	0.173	100.000
5.00	4.500	0.000	0.000	99.949	0.000	0.000	100.000
5.00	4.500	0.031	0.051	100.000	0.031	0.041	100.041



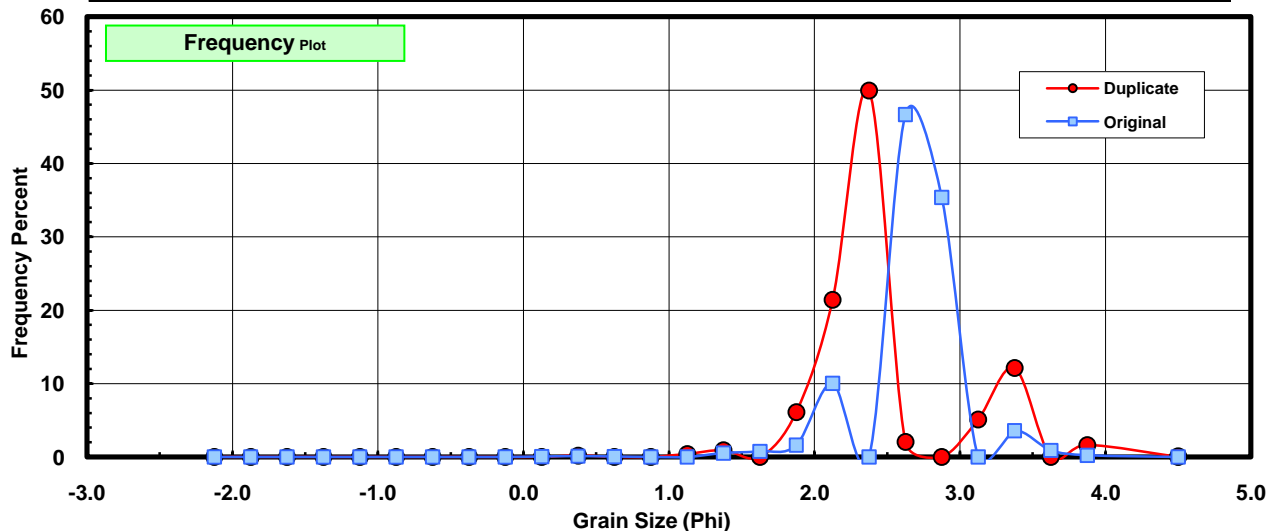


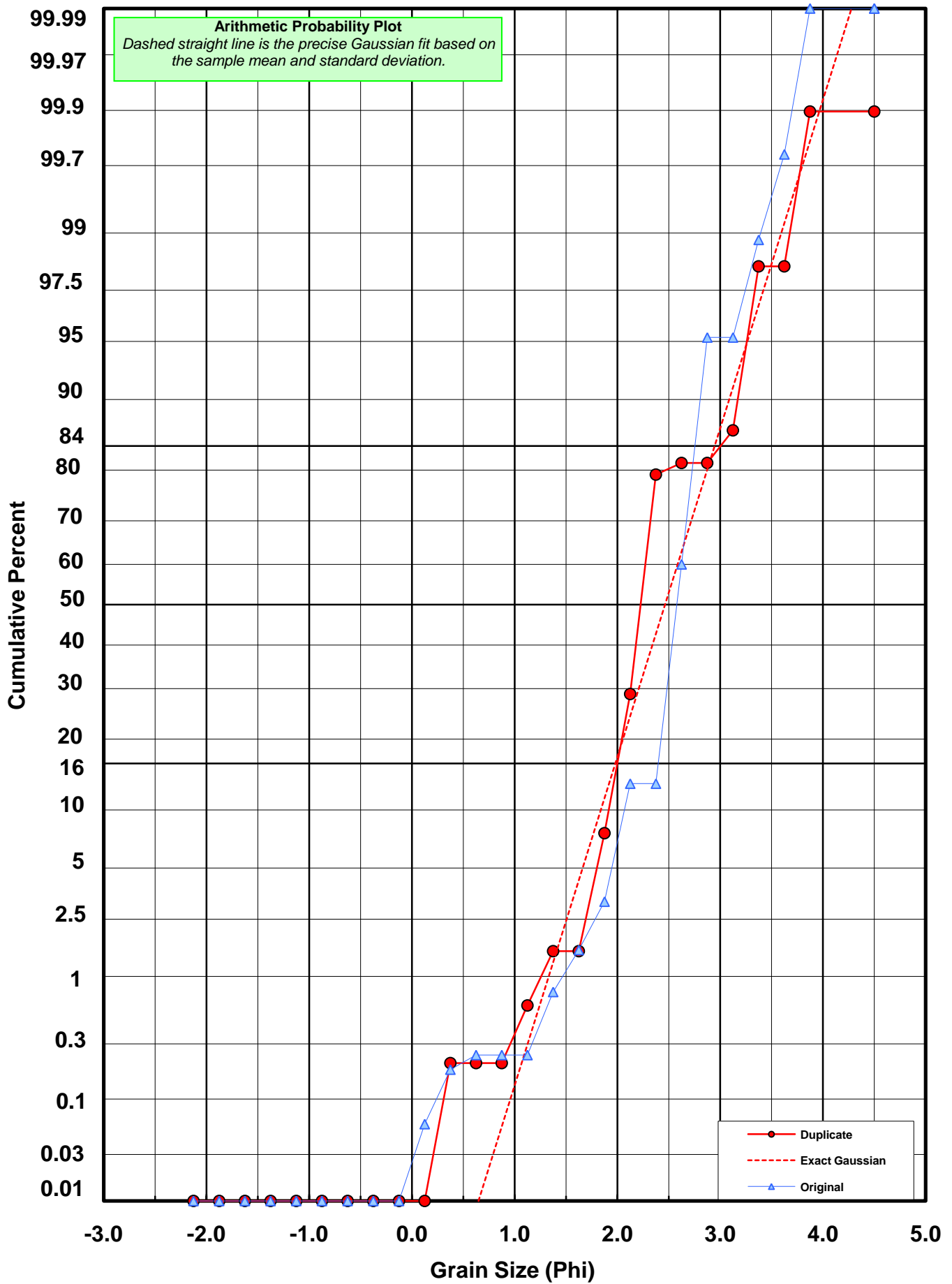
Carbonate Grain Size Distribution

Onshore Grab Sample: SJ-39-BB

Total Duplicate Carbonate Mass: 0.981 grams
% Carbonate in Duplicate: 1.4 %
Total Original Carbonate Mass: 1.671 grams
% Carbonate in Original: 1.5 %

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	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000	0.001	0.060	0.060
0.50	0.375	0.002	0.204	0.204	0.002	0.120	0.180
0.75	0.625	0.000	0.000	0.204	0.001	0.060	0.239
1.00	0.875	0.000	0.000	0.204	0.000	0.000	0.239
1.25	1.125	0.004	0.408	0.612	0.000	0.000	0.239
1.50	1.375	0.009	0.917	1.529	0.009	0.539	0.778
1.75	1.625	0.000	0.000	1.529	0.013	0.778	1.556
2.00	1.875	0.060	6.116	7.645	0.027	1.616	3.172
2.25	2.125	0.210	21.407	29.052	0.168	10.054	13.226
2.50	2.375	0.490	49.949	79.001	0.000	0.000	13.226
2.75	2.625	0.020	2.039	81.040	0.780	46.679	59.904
3.00	2.875	0.000	0.000	81.040	0.591	35.368	95.272
3.25	3.125	0.050	5.097	86.137	0.000	0.000	95.272
3.50	3.375	0.119	12.130	98.267	0.060	3.591	98.863
3.75	3.625	0.000	0.000	98.267	0.015	0.898	99.761
4.00	3.875	0.016	1.631	99.898	0.004	0.239	100.000
5.00	4.500	0.000	0.000	99.898	0.000	0.000	100.000
5.00	4.500	0.001	0.102	100.000	0.000	0.000	100.000





Post-Digestion Grain Size Distribution

Onshore Grab Sample: SJ-39-BB

Total Duplicate Digested Mass: 60.496 grams
% Silica in Duplicate: 98.6 %
Total Original Digested Mass: 74.477 grams
% Silica in Original: 98.5 %

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	0.000	0.000	0.000	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000	0.000	0.000	0.000
0.50	0.375	0.003	0.005	0.005	0.000	0.000	0.000
0.75	0.625	0.003	0.005	0.010	0.000	0.000	0.000
1.00	0.875	0.004	0.007	0.017	0.001	0.001	0.001
1.25	1.125	0.004	0.007	0.023	0.005	0.007	0.008
1.50	1.375	0.009	0.015	0.038	0.007	0.009	0.017
1.75	1.625	0.081	0.134	0.172	0.069	0.093	0.110
2.00	1.875	0.426	0.704	0.876	0.466	0.626	0.736
2.25	2.125	2.107	3.483	4.359	2.570	3.451	4.187
2.50	2.375	8.704	14.388	18.747	11.896	15.973	20.159
2.75	2.625	22.653	37.445	56.192	28.506	38.275	58.434
3.00	2.875	19.603	32.404	88.596	22.827	30.650	89.084
3.25	3.125	5.546	9.168	97.763	6.491	8.715	97.799
3.50	3.375	0.887	1.466	99.230	1.083	1.454	99.253
3.75	3.625	0.349	0.577	99.807	0.396	0.532	99.785
4.00	3.875	0.087	0.144	99.950	0.127	0.171	99.956
5.00	4.500	0.000	0.000	99.950	0.000	0.000	99.956
5.00	4.500	0.030	0.050	100.000	0.033	0.044	100.000

