

Quality Control Statistical Summary

Onshore Grab Sample: SJ-16-BB

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

Latitude: 30° 02' 45.9"
 Longitude: 81° 19' 42.5"
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	0.5347	phi (0.6903 mm)	0.5887	phi (0.6649 mm)
Standard Dev:	1.0856	phi-units (0.4712 mm)	1.1419	phi-units (0.4532 mm)
Skewness:	-0.1078	dimensionless	-0.2804	dimensionless
Kurtosis:	2.3549	dimensionless	2.4214	dimensionless
5th Moment:	-0.6937	dimensionless	-1.7099	dimensionless
6th Moment:	7.8683	dimensionless	8.4497	dimensionless
RARD*:	2.0302	dimensionless	1.9395	dimensionless
Median:	0.4946	phi (0.7097 mm)	0.6354	phi (0.6437 mm)

Statistical Results: CaCO3				
	Duplicate		Original	
Mean:	-0.1886	phi (1.1397 mm)	-0.2265	phi (1.17 mm)
Standard Dev:	0.8644	phi-units (0.5493 mm)	0.9517	phi-units (0.517 mm)
Skewness:	0.1670	dimensionless	0.1110	dimensionless
Kurtosis:	2.7062	dimensionless	2.6251	dimensionless
5th Moment:	1.3105	dimensionless	0.9862	dimensionless
6th Moment:	11.4765	dimensionless	10.3078	dimensionless
RARD*:	4.5825	dimensionless	4.2026	dimensionless
Median:	-0.3851	phi (1.306 mm)	-0.4130	phi (1.3315 mm)

Statistical Results: Post-CaCO3				
	Duplicate		Original	
Mean:	1.2399	phi (0.4234 mm)	1.2915	phi (0.4085 mm)
Standard Dev:	0.7775	phi-units (0.5834 mm)	0.7692	phi-units (0.5867 mm)
Skewness:	-0.0902	dimensionless	-0.1790	dimensionless
Kurtosis:	2.6105	dimensionless	2.7493	dimensionless
5th Moment:	-0.8116	dimensionless	-1.9128	dimensionless
6th Moment:	10.6942	dimensionless	12.9919	dimensionless
RARD*:	0.6271	dimensionless	0.5956	dimensionless
Median:	1.0848	phi (0.4715 mm)	1.1439	phi (0.4525 mm)

Additional Data	
Total Fines	
Original:	0.66 %
Duplicate:	0.48 %
Total Carbonates	
Original:	46.17 %
Duplicate:	49.21 %

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)

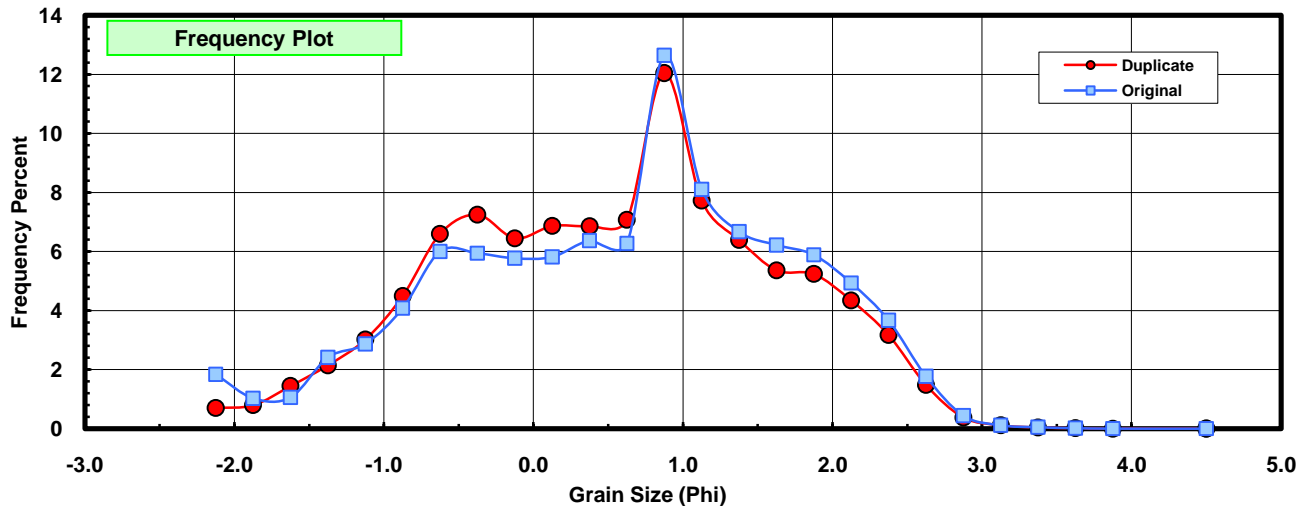
Pre-Digestion Grain Size Distribution

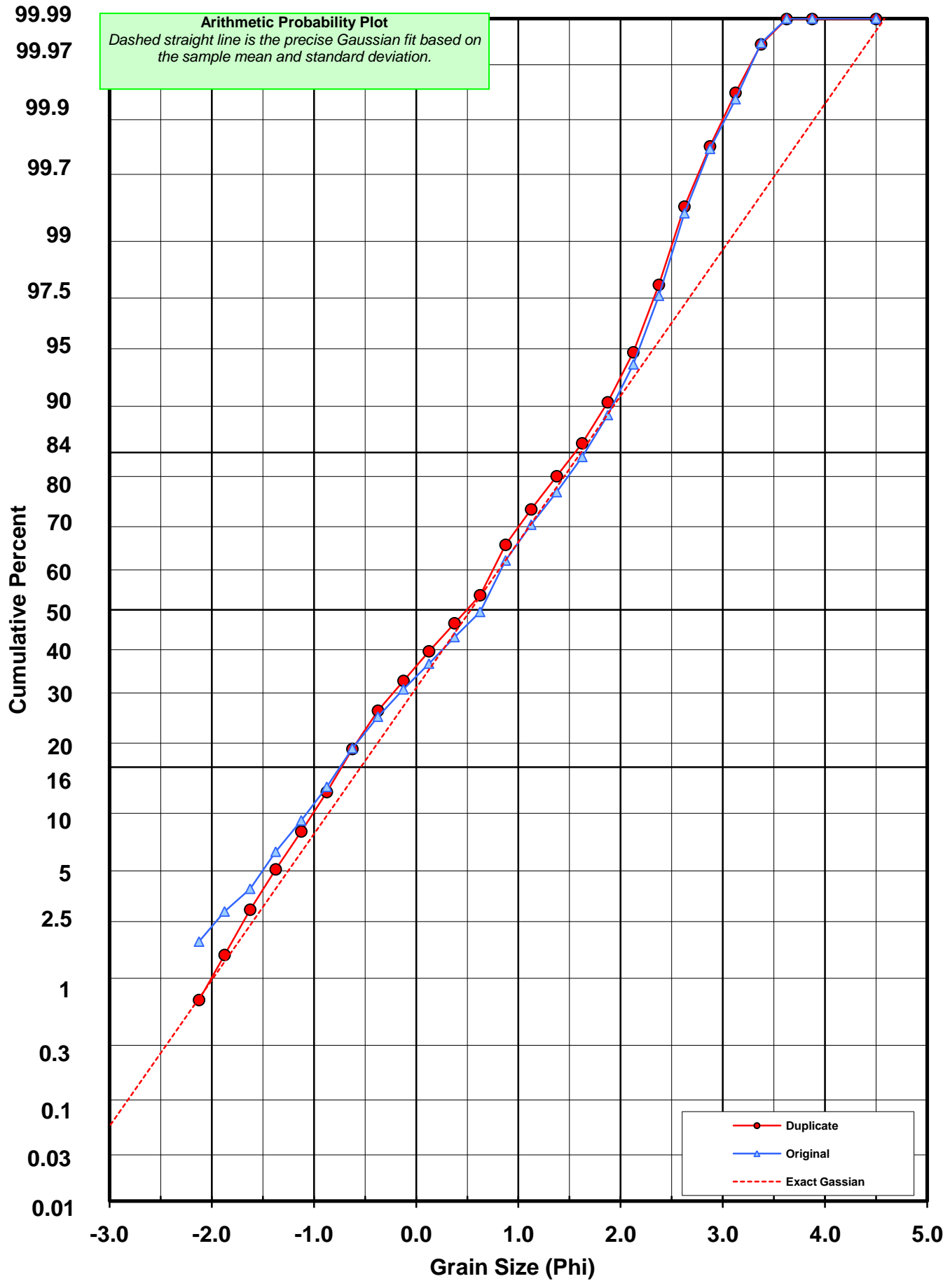
Onshore Grab Sample: SJ-16-BB

Total Duplicate Sample Mass: 78.402 grams

Total Original Sample Mass: 70.172 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	0.546	0.696	0.696	1.288	1.836	1.836
-1.75	-1.875	0.622	0.793	1.490	0.722	1.029	2.864
-1.50	-1.625	1.132	1.444	2.934	0.745	1.062	3.926
-1.25	-1.375	1.683	2.147	5.080	1.695	2.416	6.342
-1.00	-1.125	2.366	3.018	8.098	2.015	2.872	9.213
-0.75	-0.875	3.524	4.495	12.593	2.864	4.081	13.295
-0.50	-0.625	5.173	6.598	19.191	4.213	6.004	19.299
-0.25	-0.375	5.684	7.250	26.441	4.169	5.941	25.240
0.00	-0.125	5.053	6.445	32.886	4.049	5.770	31.010
0.25	0.125	5.383	6.866	39.752	4.081	5.816	36.826
0.50	0.375	5.380	6.862	46.614	4.472	6.373	43.199
0.75	0.625	5.548	7.076	53.690	4.402	6.273	49.472
1.00	0.875	9.443	12.044	65.734	8.873	12.645	62.117
1.25	1.125	6.053	7.720	73.455	5.689	8.107	70.224
1.50	1.375	5.013	6.394	79.849	4.681	6.671	76.895
1.75	1.625	4.205	5.363	85.212	4.365	6.221	83.116
2.00	1.875	4.107	5.238	90.450	4.131	5.887	89.003
2.25	2.125	3.405	4.343	94.794	3.461	4.932	93.935
2.50	2.375	2.489	3.175	97.968	2.577	3.672	97.607
2.75	2.625	1.161	1.481	99.449	1.243	1.771	99.379
3.00	2.875	0.298	0.380	99.829	0.310	0.442	99.820
3.25	3.125	0.089	0.114	99.943	0.080	0.114	99.934
3.50	3.375	0.031	0.040	99.982	0.034	0.048	99.983
3.75	3.625	0.012	0.015	99.997	0.011	0.016	99.999
4.00	3.875	0.000	0.000	99.997	0.001	0.001	100.000
5.00	4.500	0.000	0.000	99.997	0.000	0.000	100.000
5.00	4.500	0.002	0.003	100.000	0.001	0.001	100.001



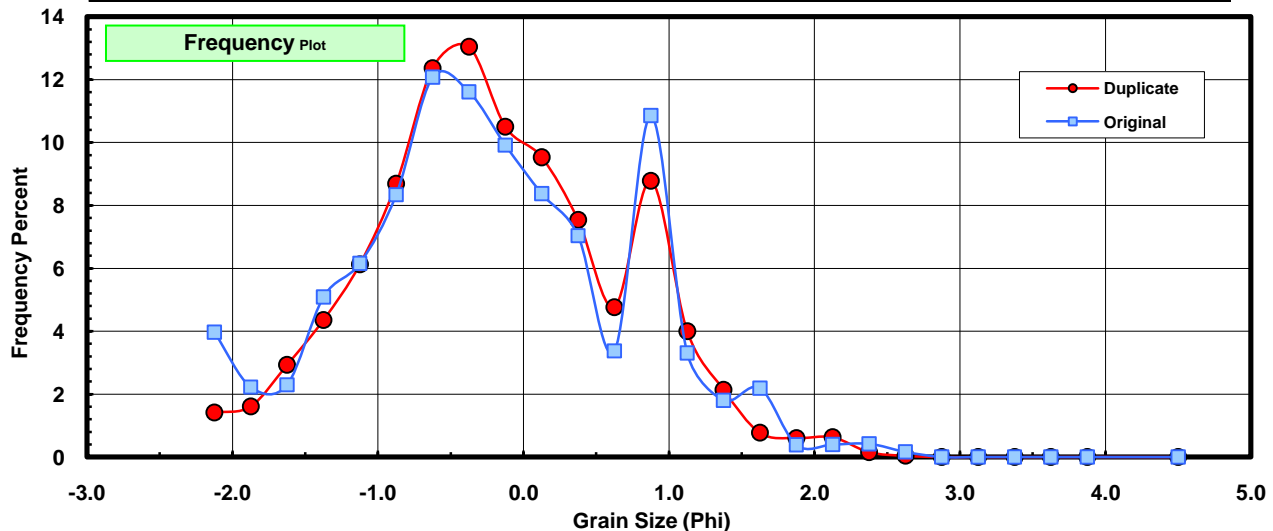


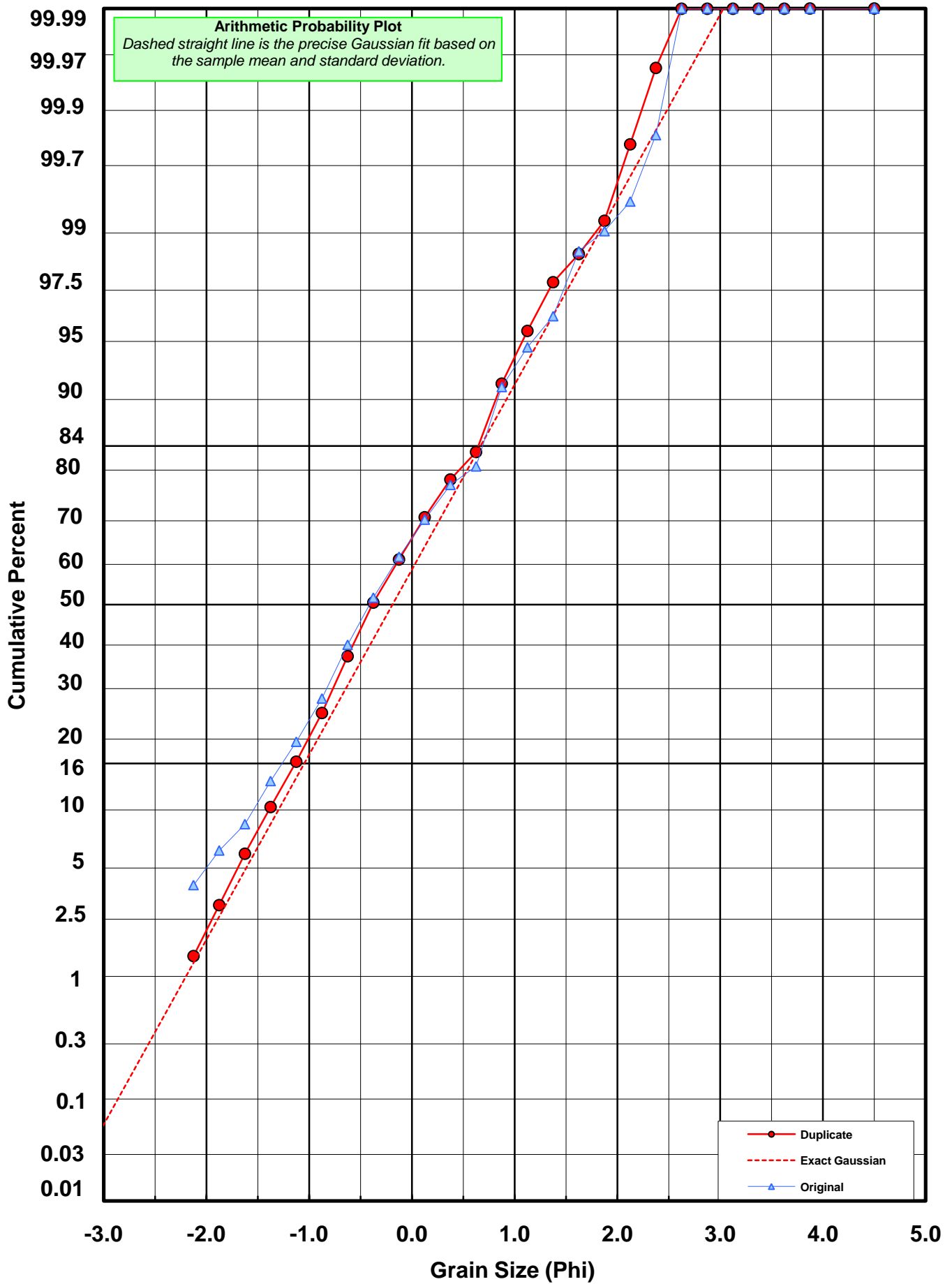
Carbonate Grain Size Distribution

Onshore Grab Sample: SJ-16-BB

Total Duplicate Carbonate Mass: 38.630 grams
% Carbonate in Duplicate: 49.2 %
Total Original Carbonate Mass: 32.438 grams
% Carbonate in Original: 46.2 %

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	0.546	1.413	1.413	1.288	3.971	3.971
-1.75	-1.875	0.622	1.610	3.024	0.722	2.226	6.196
-1.50	-1.625	1.132	2.930	5.954	0.745	2.297	8.493
-1.25	-1.375	1.683	4.357	10.311	1.650	5.087	13.580
-1.00	-1.125	2.366	6.125	16.435	1.997	6.156	19.736
-0.75	-0.875	3.356	8.688	25.123	2.706	8.342	28.078
-0.50	-0.625	4.775	12.361	37.484	3.918	12.078	40.157
-0.25	-0.375	5.039	13.044	50.528	3.766	11.610	51.766
0.00	-0.125	4.058	10.505	61.033	3.217	9.917	61.684
0.25	0.125	3.682	9.531	70.564	2.716	8.373	70.057
0.50	0.375	2.913	7.541	78.105	2.283	7.038	77.095
0.75	0.625	1.842	4.768	82.873	1.095	3.376	80.470
1.00	0.875	3.392	8.781	91.654	3.522	10.858	91.328
1.25	1.125	1.546	4.002	95.656	1.073	3.308	94.636
1.50	1.375	0.828	2.143	97.800	0.585	1.803	96.439
1.75	1.625	0.298	0.771	98.571	0.711	2.192	98.631
2.00	1.875	0.233	0.603	99.174	0.125	0.385	99.017
2.25	2.125	0.243	0.629	99.803	0.129	0.398	99.414
2.50	2.375	0.060	0.155	99.959	0.137	0.422	99.837
2.75	2.625	0.015	0.039	99.997	0.053	0.163	100.000
3.00	2.875	0.000	0.000	99.997	0.000	0.000	100.000
3.25	3.125	0.000	0.000	99.997	0.000	0.000	100.000
3.50	3.375	0.000	0.000	99.997	0.000	0.000	100.000
3.75	3.625	0.000	0.000	99.997	0.000	0.000	100.000
4.00	3.875	0.001	0.003	100.000	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000	0.000	0.000	100.000





Post-Digestion Grain Size Distribution

Onshore Grab Sample: SJ-16-BB

Total Duplicate Digested Mass: 39.825 grams
% Silica in Duplicate: 50.8 %
Total Original Digested Mass: 37.776 grams
% Silica in Original: 53.8 %

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	0.045	0.119	0.119
-1.00	-1.125	0.000	0.000	0.000	0.018	0.048	0.167
-0.75	-0.875	0.168	0.422	0.422	0.158	0.418	0.585
-0.50	-0.625	0.398	0.999	1.421	0.295	0.781	1.366
-0.25	-0.375	0.645	1.620	3.041	0.403	1.067	2.433
0.00	-0.125	0.995	2.498	5.539	0.832	2.202	4.635
0.25	0.125	1.701	4.271	9.810	1.365	3.613	8.249
0.50	0.375	2.467	6.195	16.005	2.189	5.795	14.043
0.75	0.625	3.706	9.306	25.311	3.307	8.754	22.798
1.00	0.875	6.051	15.194	40.505	5.351	14.165	36.963
1.25	1.125	4.507	11.317	51.822	4.616	12.219	49.182
1.50	1.375	4.185	10.508	62.330	4.096	10.843	60.025
1.75	1.625	3.907	9.810	72.141	3.654	9.673	69.698
2.00	1.875	3.874	9.728	81.868	4.006	10.605	80.302
2.25	2.125	3.162	7.940	89.808	3.332	8.820	89.123
2.50	2.375	2.429	6.099	95.907	2.440	6.459	95.582
2.75	2.625	1.146	2.878	98.785	1.190	3.150	98.732
3.00	2.875	0.324	0.814	99.598	0.336	0.889	99.621
3.25	3.125	0.090	0.226	99.824	0.089	0.236	99.857
3.50	3.375	0.046	0.116	99.940	0.037	0.098	99.955
3.75	3.625	0.018	0.045	99.985	0.012	0.032	99.987
4.00	3.875	0.003	0.008	99.992	0.004	0.011	99.997
5.00	4.500	0.000	0.000	99.992	0.000	0.000	99.997
5.00	4.500	0.003	0.008	100.000	0.001	0.003	100.000

