

Quality Control Statistical Summary

Onshore Grab Sample: FK-09-BB

Sample Taken By: D. Phelps
 Sample Taken On: 09/01/10
 County: Franklin

Latitude: 29° 37' 50.2" N
 Longitude: 85° 6' 41.8" W
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	2.3560	phi (0.1953 mm)	2.0427	phi (0.2427 mm)
Standard Dev:	0.3438	phi-units (0.788 mm)	0.9680	phi-units (0.5112 mm)
Skewness:	-0.1555	dimensionless	-2.3344	dimensionless
Kurtosis:	4.3167	dimensionless	8.0750	dimensionless
5th Moment:	-5.6682	dimensionless	-27.2012	dimensionless
6th Moment:	71.4266	dimensionless	98.9189	dimensionless
RARD*:	0.1459	dimensionless	0.4739	dimensionless
Median:	2.2361	phi (0.2123 mm)	2.1742	phi (0.2216 mm)

Statistical Results: CaCO3				
	Duplicate		Original	
Mean:	2.1072	phi (0.2321 mm)	-0.4764	phi (1.3913 mm)
Standard Dev:	0.5890	phi-units (0.6648 mm)	0.9109	phi-units (0.5319 mm)
Skewness:	-0.8584	dimensionless	0.8211	dimensionless
Kurtosis:	5.9182	dimensionless	5.7137	dimensionless
5th Moment:	-12.7102	dimensionless	13.2734	dimensionless
6th Moment:	54.2046	dimensionless	62.6793	dimensionless
RARD*:	0.2795	dimensionless	1.9118	dimensionless
Median:	1.9918	phi (0.2514 mm)	-0.7124	phi (1.6385 mm)

Statistical Results: Post-CaCO3				
	Duplicate		Original	
Mean:	2.3616	phi (0.1946 mm)	2.3335	phi (0.1984 mm)
Standard Dev:	0.3386	phi-units (0.7908 mm)	0.3627	phi-units (0.7777 mm)
Skewness:	-0.0064	dimensionless	-0.3118	dimensionless
Kurtosis:	3.8095	dimensionless	4.8323	dimensionless
5th Moment:	1.1497	dimensionless	-6.9473	dimensionless
6th Moment:	42.8016	dimensionless	65.6607	dimensionless
RARD*:	0.1434	dimensionless	0.1554	dimensionless
Median:	2.2426	phi (0.2113 mm)	2.2192	phi (0.2148 mm)

Additional Data	
Total Fines	
Original:	0.01 %
Duplicate:	0.08 %
Total Carbonates	
Original:	1.29 %
Duplicate:	0.55 %

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)

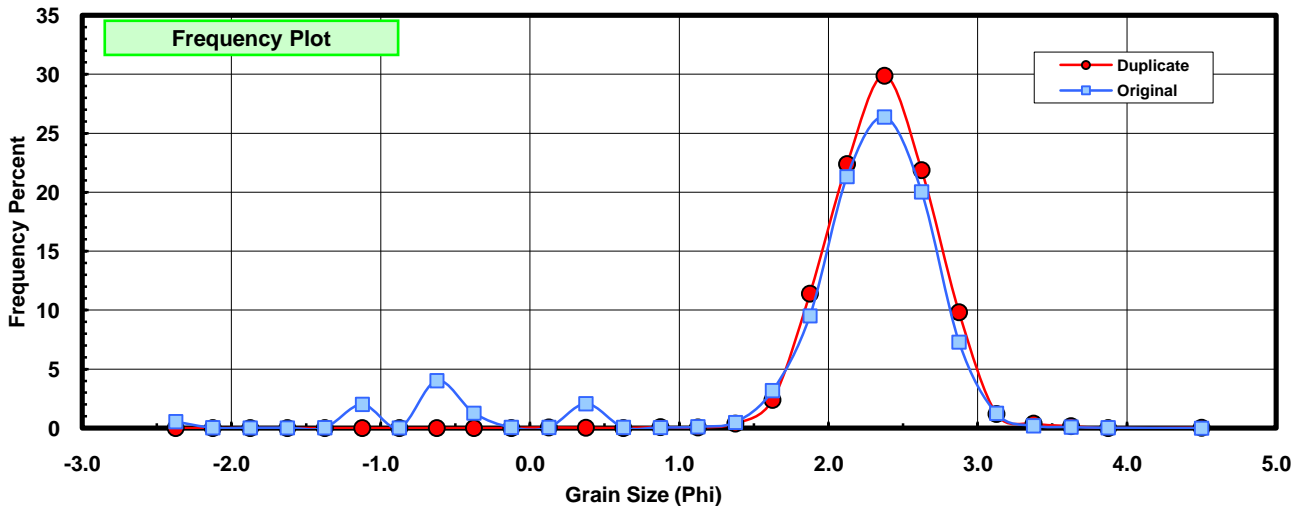
Pre-Digestion Grain Size Distribution

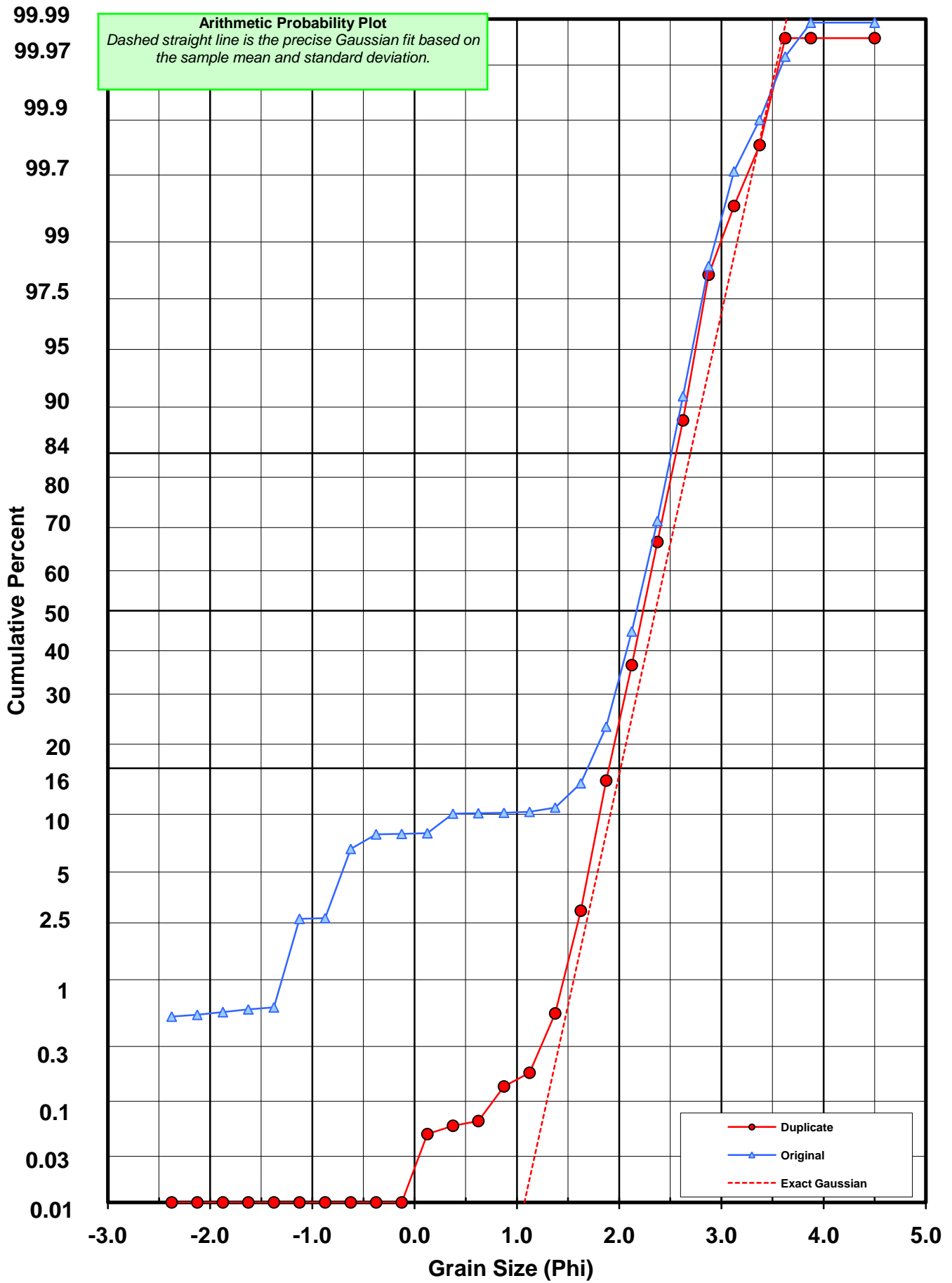
Onshore Grab Sample: FK-09-BB

Total Duplicate Sample Mass: 63.059 grams

Total Original Sample Mass: 68.462 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight of Dupl (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000	0.361	0.527	0.527
-2.00	-2.125	0.000	0.000	0.000	0.012	0.018	0.545
-1.75	-1.875	0.000	0.000	0.000	0.019	0.028	0.573
-1.50	-1.625	0.000	0.000	0.000	0.021	0.031	0.603
-1.25	-1.375	0.000	0.000	0.000	0.014	0.020	0.624
-1.00	-1.125	0.000	0.000	0.000	1.369	2.000	2.623
-0.75	-0.875	0.000	0.000	0.000	0.020	0.029	2.653
-0.50	-0.625	0.000	0.000	0.000	2.746	4.011	6.664
-0.25	-0.375	0.000	0.000	0.000	0.876	1.280	7.943
0.00	-0.125	0.000	0.000	0.000	0.034	0.050	7.993
0.25	0.125	0.032	0.051	0.051	0.031	0.045	8.038
0.50	0.375	0.006	0.010	0.060	1.399	2.043	10.082
0.75	0.625	0.004	0.006	0.067	0.033	0.048	10.130
1.00	0.875	0.043	0.068	0.135	0.037	0.054	10.184
1.25	1.125	0.027	0.043	0.178	0.071	0.104	10.287
1.50	1.375	0.241	0.382	0.560	0.337	0.492	10.780
1.75	1.625	1.501	2.380	2.940	2.168	3.167	13.946
2.00	1.875	7.183	11.391	14.331	6.526	9.532	23.479
2.25	2.125	14.118	22.389	36.720	14.607	21.336	44.815
2.50	2.375	18.842	29.880	66.600	18.049	26.364	71.178
2.75	2.625	13.782	21.856	88.455	13.699	20.010	91.188
3.00	2.875	6.190	9.816	98.271	5.001	7.305	98.493
3.25	3.125	0.750	1.189	99.461	0.842	1.230	99.722
3.50	3.375	0.236	0.374	99.835	0.122	0.178	99.901
3.75	3.625	0.095	0.151	99.986	0.051	0.074	99.975
4.00	3.875	0.000	0.000	99.986	0.013	0.019	99.994
5.00	4.500	0.009	0.014	100.000	0.004	0.006	100.000



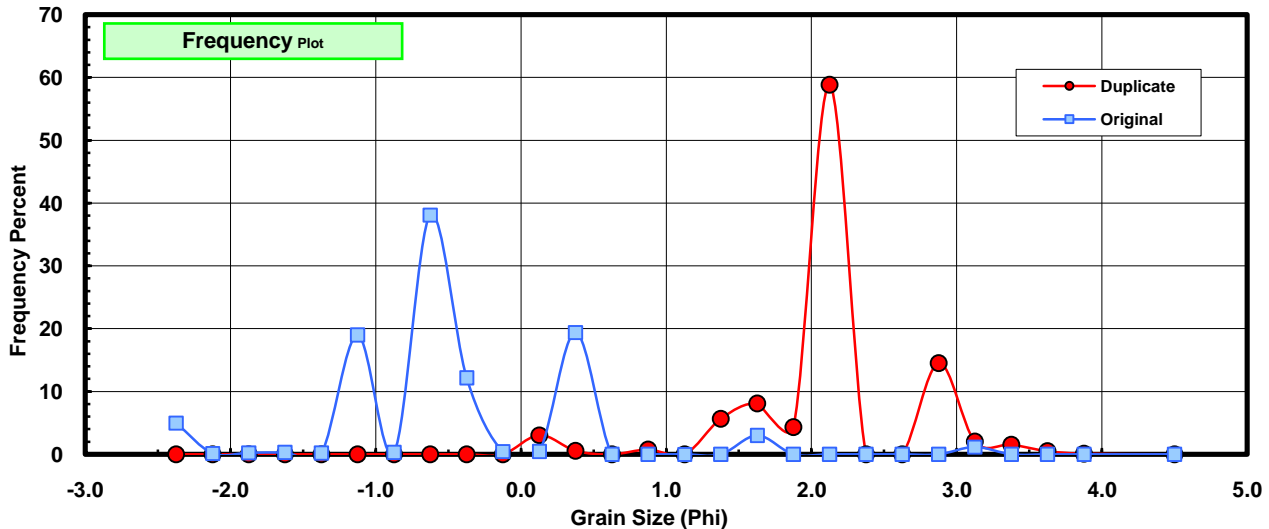


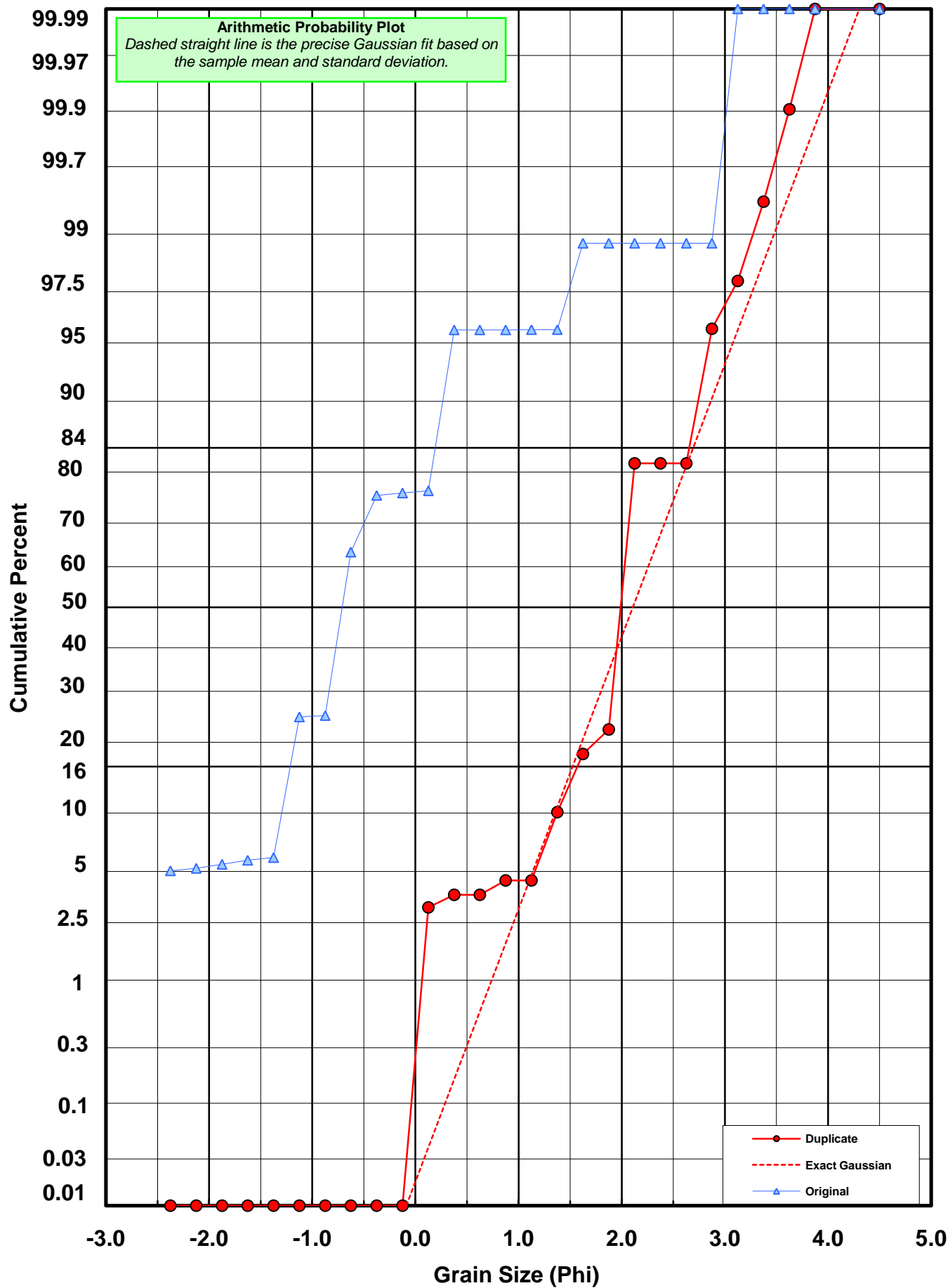
Carbonate Grain Size Distribution

Onshore Grab Sample: FK-09-BB

Total Duplicate Carbonate Mass: 1.040 grams
% Carbonate in Duplicate: 0.5 %
Total Original Carbonate Mass: 7.204 grams
% Carbonate in Original: 1.3 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight of Dupl (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000	0.361	5.011	5.011
-2.00	-2.125	0.000	0.000	0.000	0.012	0.167	5.178
-1.75	-1.875	0.000	0.000	0.000	0.019	0.264	5.441
-1.50	-1.625	0.000	0.000	0.000	0.021	0.292	5.733
-1.25	-1.375	0.000	0.000	0.000	0.014	0.194	5.927
-1.00	-1.125	0.000	0.000	0.000	1.369	19.003	24.931
-0.75	-0.875	0.000	0.000	0.000	0.020	0.278	25.208
-0.50	-0.625	0.000	0.000	0.000	2.746	38.118	63.326
-0.25	-0.375	0.000	0.000	0.000	0.876	12.160	75.486
0.00	-0.125	0.000	0.000	0.000	0.034	0.472	75.958
0.25	0.125	0.032	3.077	3.077	0.031	0.430	76.388
0.50	0.375	0.006	0.577	3.654	1.399	19.420	95.808
0.75	0.625	0.000	0.000	3.654	0.000	0.000	95.808
1.00	0.875	0.008	0.769	4.423	0.000	0.000	95.808
1.25	1.125	0.000	0.000	4.423	0.001	0.014	95.822
1.50	1.375	0.059	5.673	10.096	0.000	0.000	95.822
1.75	1.625	0.084	8.077	18.173	0.216	2.998	98.820
2.00	1.875	0.045	4.327	22.500	0.000	0.000	98.820
2.25	2.125	0.612	58.846	81.346	0.000	0.000	98.820
2.50	2.375	0.000	0.000	81.346	0.000	0.000	98.820
2.75	2.625	0.000	0.000	81.346	0.000	0.000	98.820
3.00	2.875	0.151	14.519	95.865	0.000	0.000	98.820
3.25	3.125	0.021	2.019	97.885	0.085	1.180	100.000
3.50	3.375	0.016	1.538	99.423	0.000	0.000	100.000
3.75	3.625	0.005	0.481	99.904	0.000	0.000	100.000
4.00	3.875	0.001	0.096	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: FK-09-BB

Total Duplicate Digested Mass: 62.744 grams
% Silica in Duplicate: 99.5 %
Total Original Digested Mass: 67.579 grams
% Silica in Original: 98.7 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000	0.000	0.000	0.000
-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	0.000	0.000	0.000	0.000	0.000	0.000
0.75	0.625	0.023	0.037	0.037	0.251	0.371	0.371
1.00	0.875	0.035	0.056	0.092	0.037	0.055	0.426
1.25	1.125	0.034	0.054	0.147	0.070	0.104	0.530
1.50	1.375	0.182	0.290	0.437	0.337	0.499	1.028
1.75	1.625	1.417	2.258	2.695	1.952	2.888	3.917
2.00	1.875	7.138	11.376	14.071	8.534	12.628	16.545
2.25	2.125	13.506	21.526	35.597	15.173	22.452	38.997
2.50	2.375	19.219	30.631	66.228	19.740	29.210	68.208
2.75	2.625	14.071	22.426	88.654	14.244	21.078	89.285
3.00	2.875	6.039	9.625	98.279	6.047	8.948	98.233
3.25	3.125	0.729	1.162	99.441	0.757	1.120	99.353
3.50	3.375	0.220	0.351	99.791	0.285	0.422	99.775
3.75	3.625	0.090	0.143	99.935	0.116	0.172	99.947
4.00	3.875	0.029	0.046	99.981	0.027	0.040	99.987
5.00	4.500	0.012	0.019	100.000	0.009	0.013	100.000

