

Quality Control Statistical Summary

Onshore Grab Sample: BV-71-BB

Sample Taken By: D. Phelps
 Sample Taken On: 09/23/08
 County: Brevard

Latitude: 27° 57' 14.4"
 Longitude: 80° 30' 0.0"
 Datum: WGS 84

Statistical Results: Pre-CaCO3						
	Duplicate			Original		
Mean:	1.5226	phi	(0.3481 mm)	1.4261	phi	(0.3721 mm)
Standard Dev:	0.6715	phi-units	(0.6278 mm)	0.5681	phi-units	(0.6745 mm)
Skewness:	-0.3370	dimensionless		-0.2856	dimensionless	
Kurtosis:	3.5659	dimensionless		3.6548	dimensionless	
5th Moment:	-4.0444	dimensionless		-3.1876	dimensionless	
6th Moment:	22.5097	dimensionless		25.3424	dimensionless	
RARD*:	0.4410	dimensionless		0.3983	dimensionless	
Median:	1.4140	phi	(0.3753 mm)	1.3256	phi	(0.399 mm)

Statistical Results: CaCO3						
	Duplicate			Original		
Mean:	1.1243	phi	(0.4587 mm)	1.1404	phi	(0.4536 mm)
Standard Dev:	0.7502	phi-units	(0.5945 mm)	0.6596	phi-units	(0.6331 mm)
Skewness:	-0.4578	dimensionless		-0.3161	dimensionless	
Kurtosis:	2.6595	dimensionless		2.7229	dimensionless	
5th Moment:	-3.0116	dimensionless		-2.5179	dimensionless	
6th Moment:	11.0922	dimensionless		11.9310	dimensionless	
RARD*:	0.6672	dimensionless		0.5784	dimensionless	
Median:	1.0815	phi	(0.4725 mm)	1.0301	phi	(0.4897 mm)

Statistical Results: Post-CaCO3						
	Duplicate			Original		
Mean:	1.6693	phi	(0.3144 mm)	1.5342	phi	(0.3453 mm)
Standard Dev:	0.5896	phi-units	(0.6645 mm)	0.4993	phi-units	(0.7074 mm)
Skewness:	0.1630	dimensionless		0.1768	dimensionless	
Kurtosis:	2.9912	dimensionless		3.2821	dimensionless	
5th Moment:	0.9305	dimensionless		2.2097	dimensionless	
6th Moment:	16.2145	dimensionless		20.1317	dimensionless	
RARD*:	0.3532	dimensionless		0.3254	dimensionless	
Median:	1.5148	phi	(0.3499 mm)	1.4031	phi	(0.3781 mm)

Additional Data	
Total Fines	
Original:	0.29 %
Duplicate:	2.03 %
Total Carbonates	
Original:	27.35 %
Duplicate:	26.71 %

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 $mm = 2^{(-phi)}$	
* 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)

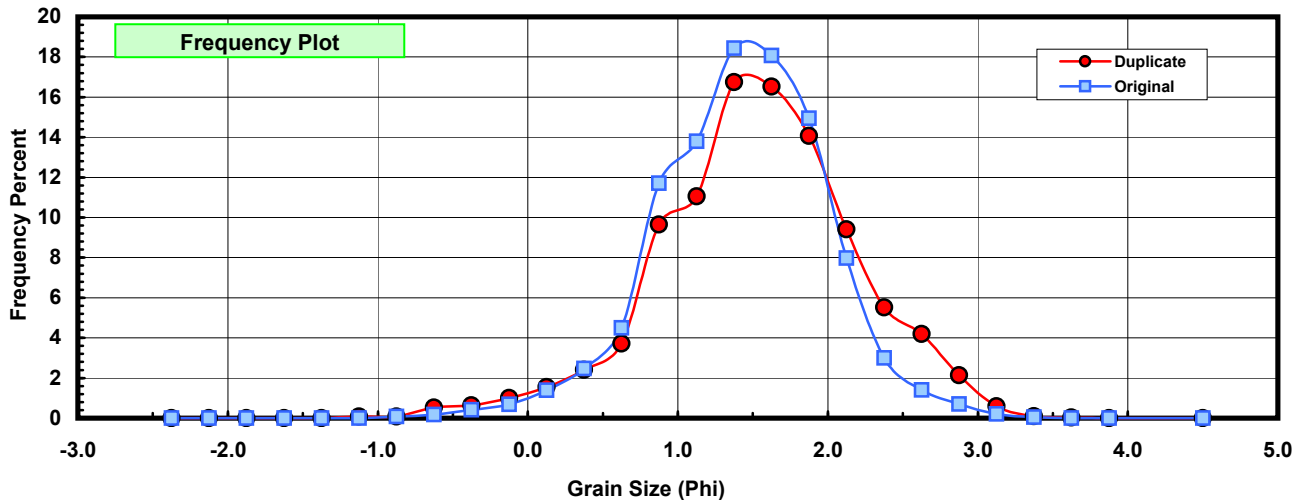
Pre-Digestion Grain Size Distribution

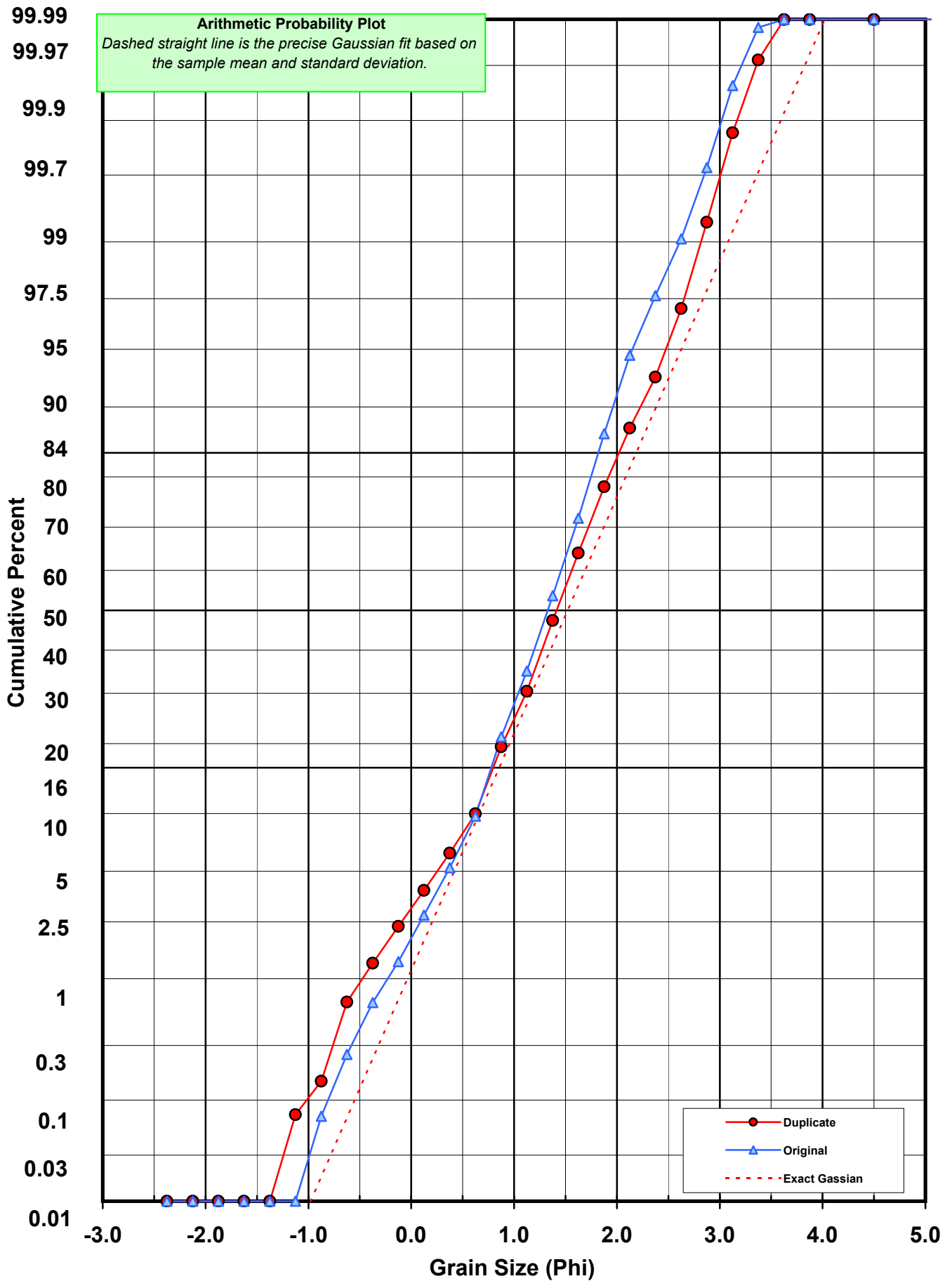
Onshore Grab Sample: BV-71-BB

Total Duplicate Sample Mass: 44.404 grams

Total Original Sample Mass: 47.303 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	0.000	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	0.033	0.074	0.074	0.000	0.000	0.000
-0.75	-0.875	0.032	0.072	0.146	0.034	0.072	0.072
-0.50	-0.625	0.235	0.529	0.676	0.084	0.178	0.249
-0.25	-0.375	0.283	0.637	1.313	0.198	0.419	0.668
0.00	-0.125	0.446	1.004	2.317	0.321	0.679	1.347
0.25	0.125	0.684	1.540	3.858	0.655	1.385	2.731
0.50	0.375	1.071	2.412	6.270	1.171	2.476	5.207
0.75	0.625	1.647	3.709	9.979	2.129	4.501	9.708
1.00	0.875	4.284	9.648	19.627	5.539	11.710	21.418
1.25	1.125	4.907	11.051	30.677	6.522	13.788	35.206
1.50	1.375	7.437	16.748	47.426	8.720	18.435	53.640
1.75	1.625	7.335	16.519	63.945	8.546	18.067	71.707
2.00	1.875	6.248	14.071	78.015	7.072	14.951	86.658
2.25	2.125	4.180	9.414	87.429	3.769	7.968	94.626
2.50	2.375	2.451	5.520	92.949	1.420	3.002	97.628
2.75	2.625	1.862	4.193	97.142	0.665	1.406	99.034
3.00	2.875	0.948	2.135	99.277	0.335	0.708	99.742
3.25	3.125	0.264	0.595	99.872	0.099	0.209	99.951
3.50	3.375	0.045	0.101	99.973	0.019	0.040	99.992
3.75	3.625	0.011	0.025	99.998	0.003	0.006	99.998
4.00	3.875	0.000	0.000	99.998	0.001	0.002	100.000
5.00	4.500	0.001	0.002	100.000	0.001	0.002	100.002



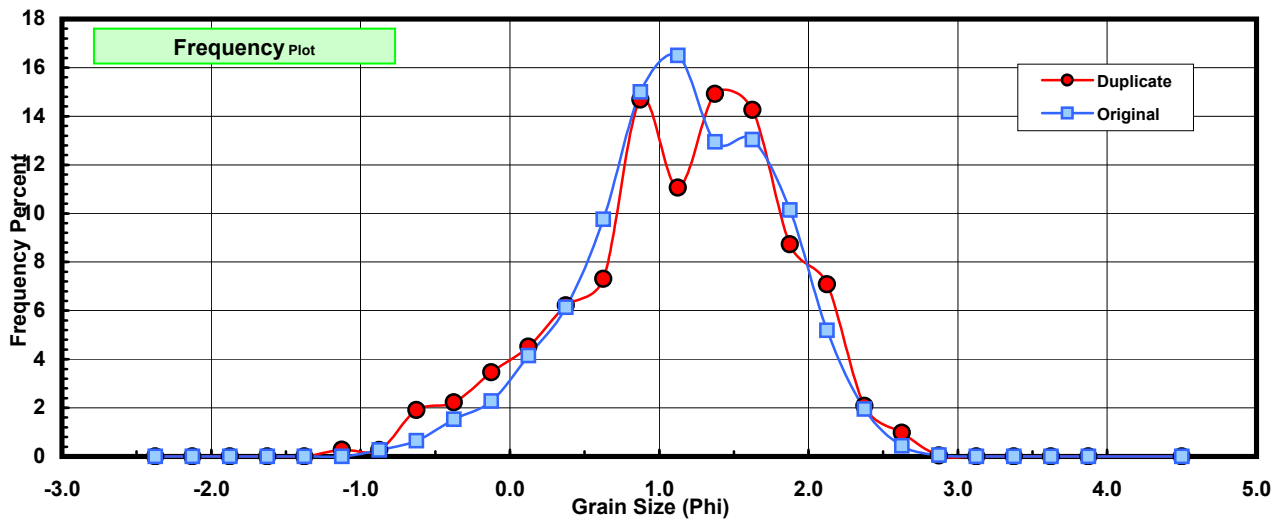


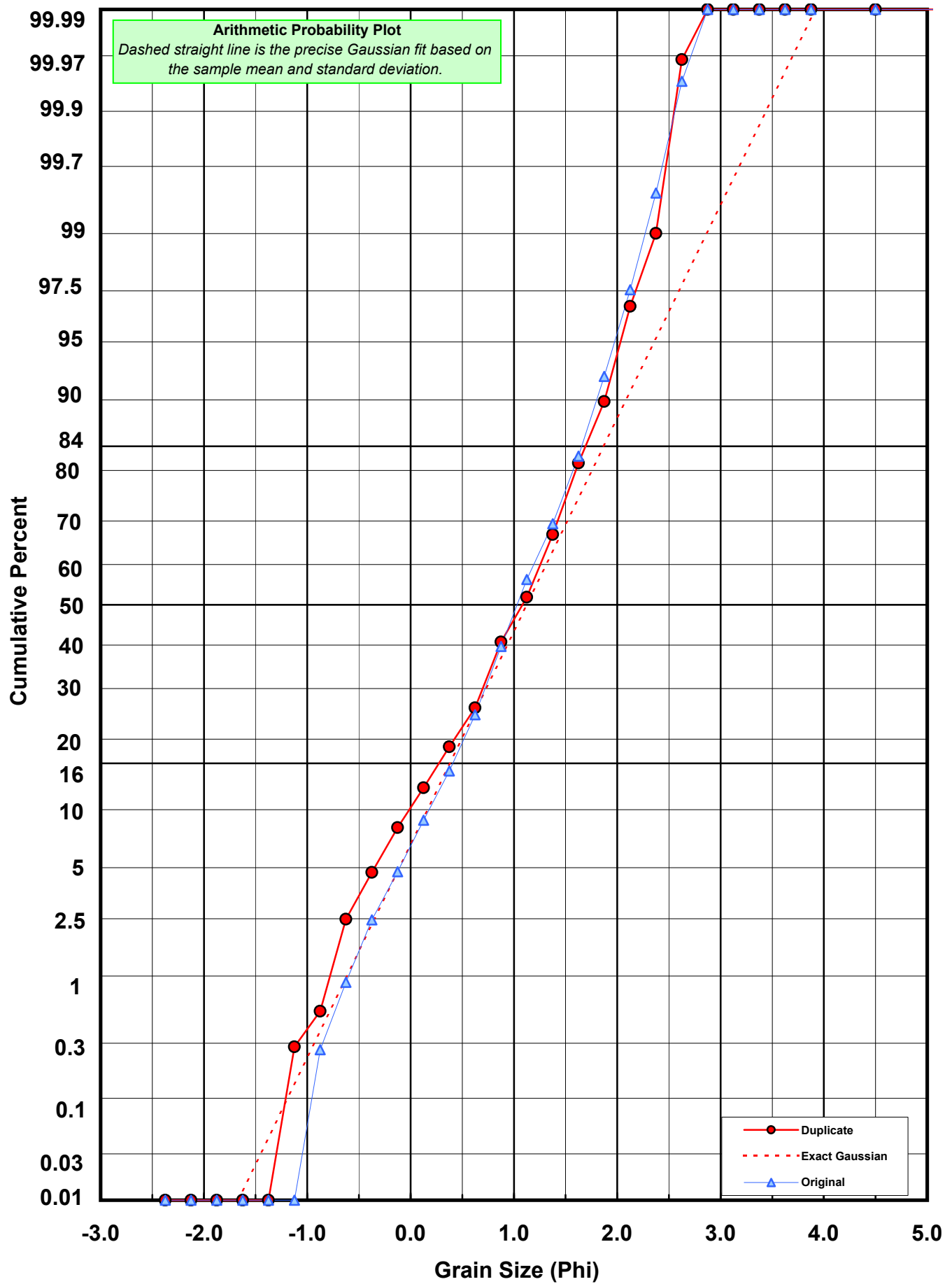
Carbonate Grain Size Distribution

Onshore Grab Sample: BV-71-BB

Total Duplicate Carbonate Mass: 11.881 grams
% Carbonate in Duplicate: 26.7 %
Total Original Carbonate Mass: 12.946 grams
% Carbonate in Original: 27.3 %

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	0.000	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	0.033	0.278	0.278	0.000	0.000	0.000
-0.75	-0.875	0.032	0.269	0.547	0.034	0.263	0.263
-0.50	-0.625	0.227	1.911	2.458	0.084	0.649	0.911
-0.25	-0.375	0.265	2.230	4.688	0.198	1.529	2.441
0.00	-0.125	0.411	3.459	8.147	0.295	2.279	4.720
0.25	0.125	0.536	4.511	12.659	0.537	4.148	8.868
0.50	0.375	0.738	6.212	18.870	0.795	6.141	15.008
0.75	0.625	0.869	7.314	26.185	1.264	9.764	24.772
1.00	0.875	1.744	14.679	40.864	1.941	14.993	39.765
1.25	1.125	1.314	11.060	51.923	2.136	16.499	56.264
1.50	1.375	1.772	14.915	66.838	1.676	12.946	69.211
1.75	1.625	1.695	14.266	81.104	1.687	13.031	82.242
2.00	1.875	1.037	8.728	89.833	1.312	10.134	92.376
2.25	2.125	0.841	7.079	96.911	0.671	5.183	97.559
2.50	2.375	0.247	2.079	98.990	0.252	1.947	99.506
2.75	2.625	0.116	0.976	99.966	0.057	0.440	99.946
3.00	2.875	0.004	0.034	100.000	0.007	0.054	100.000
3.25	3.125	0.000	0.000	100.000	0.000	0.000	100.000
3.50	3.375	0.000	0.000	100.000	0.000	0.000	100.000
3.75	3.625	0.000	0.000	100.000	0.000	0.000	100.000
4.00	3.875	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: BV-71-BB

Total Duplicate Digested Mass: 32.543 grams
% Silica in Duplicate: 73.3 %
Total Original Digested Mass: 34.366 grams
% Silica in Original: 72.7 %

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	0.008	0.025	0.025	0.000	0.000	0.000
-0.25	-0.375	0.018	0.055	0.080	0.000	0.000	0.000
0.00	-0.125	0.035	0.108	0.187	0.026	0.076	0.076
0.25	0.125	0.148	0.455	0.642	0.118	0.343	0.419
0.50	0.375	0.333	1.023	1.665	0.376	1.094	1.513
0.75	0.625	0.778	2.391	4.056	0.865	2.517	4.030
1.00	0.875	2.540	7.805	11.861	3.598	10.470	14.500
1.25	1.125	3.593	11.041	22.902	4.386	12.763	27.262
1.50	1.375	5.665	17.408	40.310	7.044	20.497	47.759
1.75	1.625	5.640	17.331	57.641	6.859	19.959	67.718
2.00	1.875	5.211	16.013	73.653	5.760	16.761	84.479
2.25	2.125	3.339	10.260	83.914	3.098	9.015	93.494
2.50	2.375	2.204	6.773	90.686	1.168	3.399	96.892
2.75	2.625	1.746	5.365	96.051	0.608	1.769	98.661
3.00	2.875	0.944	2.901	98.952	0.328	0.954	99.616
3.25	3.125	0.271	0.833	99.785	0.103	0.300	99.916
3.50	3.375	0.048	0.147	99.932	0.023	0.067	99.983
3.75	3.625	0.012	0.037	99.969	0.004	0.012	99.994
4.00	3.875	0.004	0.012	99.982	0.001	0.003	99.997
5.00	4.500	0.006	0.018	100.000	0.001	0.003	100.000

