

Quality Control Statistical Summary

Onshore Grab Sample: TY-01

Sample Taken By: D. Phelps

Latitude: 29° 50' 52.6" N

Sample Taken On: 02/22/11

Longitude: 83° 37' 6.7" W

County: Taylor

Datum: WGS 84

Statistical Results: Pre-CaCO3					
	Duplicate			Original	
Mean:	1.6951	phi	(0.3088 mm)	1.7713	phi (0.2929 mm)
Standard Dev:	1.0672	phi-units	(0.4773 mm)	0.9855	phi-units (0.5051 mm)
Skewness:	-0.7363	dimensionless		-0.7448	dimensionless
Kurtosis:	2.8973	dimensionless		2.9709	dimensionless
5th Moment:	-5.7339	dimensionless		-5.7018	dimensionless
6th Moment:	19.2514	dimensionless		19.1828	dimensionless
RARD*:	0.6296	dimensionless		0.5564	dimensionless
Median:	1.8540	phi	(0.2766 mm)	1.8891	phi (0.27 mm)

Statistical Results: CaCO3	
Not Enough Carbonate Material to do Post-Digestion Analysis	

Statistical Results: Post-CaCO3	
Not Enough Carbonate Material to do Post-Digestion Analysis	

Additional Data	
Total Fines	
Original:	0.68 %
Duplicate:	0.53 %
Total Carbonates	
Original:	1.87 %
Duplicate:	1.85 %

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)

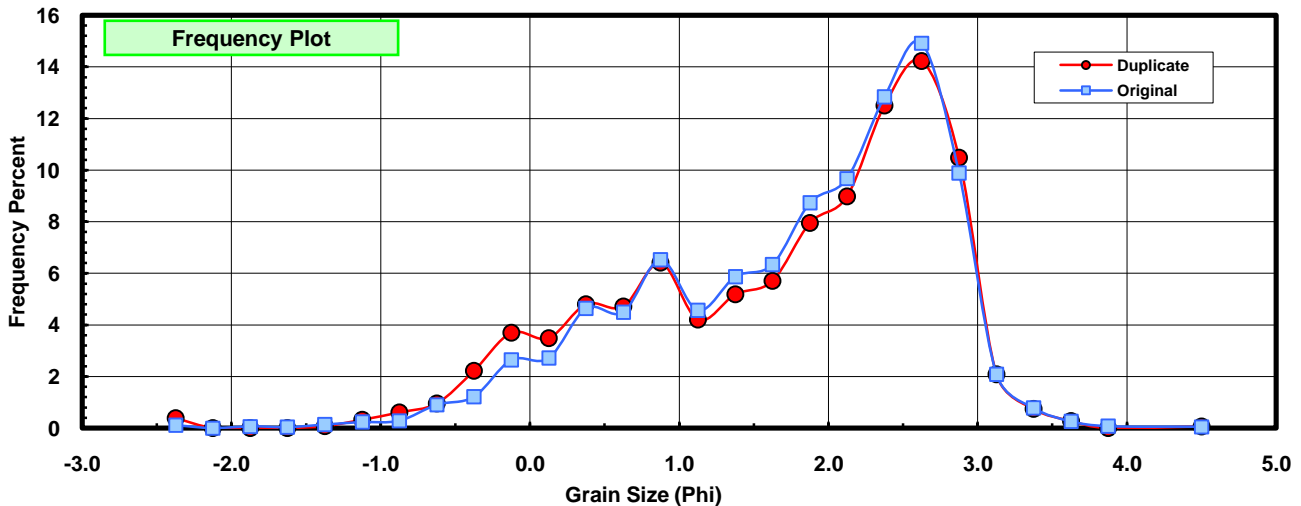
Pre-Digestion Grain Size Distribution

Onshore Grab Sample: TY-01

Total Duplicate Sample Mass: 45.669 grams

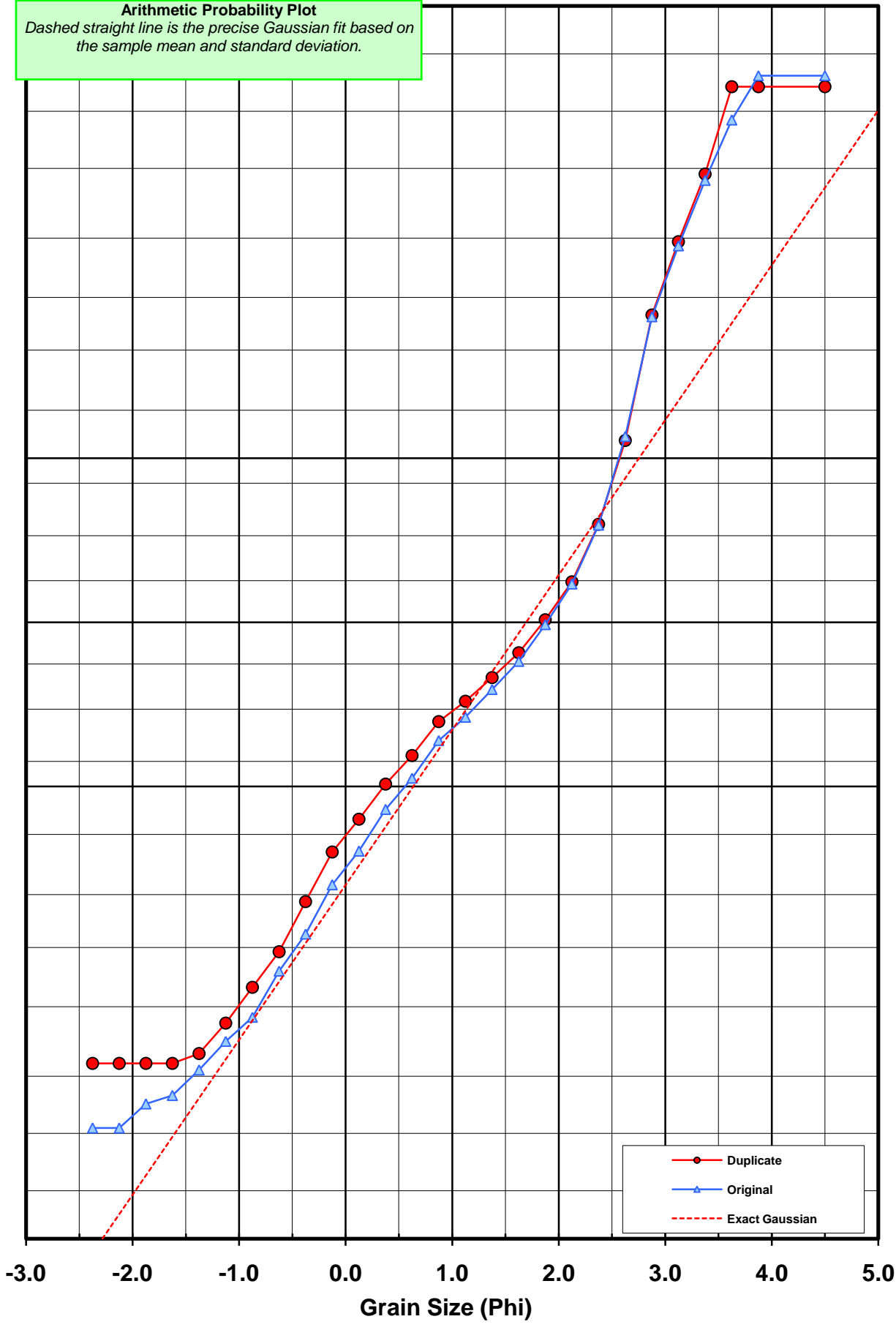
Total Original Sample Mass: 55.064 grams

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	0.173	0.379	0.379	0.061	0.111	0.111
-2.00	-2.125	0.000	0.000	0.379	0.000	0.000	0.111
-1.75	-1.875	0.000	0.000	0.379	0.036	0.065	0.176
-1.50	-1.625	0.000	0.000	0.379	0.017	0.031	0.207
-1.25	-1.375	0.034	0.074	0.453	0.071	0.129	0.336
-1.00	-1.125	0.146	0.320	0.773	0.126	0.229	0.565
-0.75	-0.875	0.277	0.607	1.379	0.159	0.289	0.854
-0.50	-0.625	0.436	0.955	2.334	0.500	0.908	1.762
-0.25	-0.375	1.012	2.216	4.550	0.668	1.213	2.975
0.00	-0.125	1.688	3.696	8.246	1.451	2.635	5.610
0.25	0.125	1.589	3.479	11.726	1.492	2.710	8.319
0.50	0.375	2.192	4.800	16.525	2.554	4.638	12.958
0.75	0.625	2.149	4.706	21.231	2.471	4.488	17.445
1.00	0.875	2.925	6.405	27.636	3.589	6.518	23.963
1.25	1.125	1.917	4.198	31.833	2.511	4.560	28.523
1.50	1.375	2.368	5.185	37.019	3.230	5.866	34.389
1.75	1.625	2.604	5.702	42.720	3.489	6.336	40.725
2.00	1.875	3.629	7.946	50.667	4.807	8.730	49.455
2.25	2.125	4.099	8.975	59.642	5.328	9.676	59.131
2.50	2.375	5.707	12.496	72.139	7.067	12.834	71.965
2.75	2.625	6.498	14.228	86.367	8.218	14.924	86.890
3.00	2.875	4.784	10.475	96.842	5.441	9.881	96.771
3.25	3.125	0.951	2.082	98.925	1.145	2.079	98.850
3.50	3.375	0.340	0.744	99.669	0.428	0.777	99.628
3.75	3.625	0.123	0.269	99.939	0.140	0.254	99.882
4.00	3.875	0.000	0.000	99.939	0.038	0.069	99.951
5.00	4.500	0.028	0.061	100.000	0.027	0.049	100.000



99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01

Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.



● Duplicate
▲ Original
- - - Exact Gaussian