

Quality Control Statistical Summary

Onshore Grab Sample: CR-34-BB

Sample Taken By: D. Phelps
 Sample Taken On: 11/06/09
 County: Collier

Latitude: 25° 58' 4.4"
 Longitude: 81° 44' 54.3"
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	1.7404	phi (0.2993 mm)	2.0121	phi (0.2479 mm)
Standard Dev:	1.4996	phi-units (0.3537 mm)	1.2318	phi-units (0.4258 mm)
Skewness:	-1.7585	dimensionless	-2.3483	dimensionless
Kurtosis:	4.8258	dimensionless	7.7857	dimensionless
5th Moment:	-12.1306	dimensionless	-25.0787	dimensionless
6th Moment:	31.9613	dimensionless	83.6099	dimensionless
RARD*:	0.8616	dimensionless	0.6122	dimensionless
Median:	2.2069	phi (0.2166 mm)	2.2955	phi (0.2037 mm)

Statistical Results: CaCO3				
	Duplicate		Original	
Mean:	-0.4390	phi (1.3557 mm)	0.0404	phi (0.9724 mm)
Standard Dev:	1.6854	phi-units (0.3109 mm)	1.7697	phi-units (0.2933 mm)
Skewness:	0.2406	dimensionless	0.0000	dimensionless
Kurtosis:	1.5629	dimensionless	1.5279	dimensionless
5th Moment:	0.9517	dimensionless	0.0720	dimensionless
6th Moment:	3.0311	dimensionless	2.7135	dimensionless
RARD*:	3.8390	dimensionless	43.8574	dimensionless
Median:	-0.7062	phi (1.6315 mm)	-0.0842	phi (1.0601 mm)

Statistical Results: Post-CaCO3				
	Duplicate		Original	
Mean:	2.4245	phi (0.1863 mm)	2.4590	phi (0.1819 mm)
Standard Dev:	0.3892	phi-units (0.7636 mm)	0.3672	phi-units (0.7753 mm)
Skewness:	-0.7995	dimensionless	-0.8482	dimensionless
Kurtosis:	4.4400	dimensionless	4.9249	dimensionless
5th Moment:	-8.6703	dimensionless	-11.1024	dimensionless
6th Moment:	46.8006	dimensionless	63.9471	dimensionless
RARD*:	0.1605	dimensionless	0.1493	dimensionless
Median:	2.3626	phi (0.1944 mm)	2.3912	phi (0.1906 mm)

Additional Data	
Total Fines	
Original:	0.32 %
Duplicate:	0.42 %
Total Carbonates	
Original:	18.19 %
Duplicate:	23.71 %

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 $mm = 2^{\sqrt{-\phi}}$	
* 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)