

Quality Control Statistical Summary

Onshore Grab Sample: DD-05-BB

Sample Taken By: D. Phelps
 Sample Taken On: 01/28/09
 County: Dade

Latitude: 25° 54' 19.0"
 Longitude: 80° 07' 18.2"
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	0.4852	phi (0.7144 mm)	0.4902	phi (0.7119 mm)
Standard Dev:	0.6948	phi-units (0.6178 mm)	0.7285	phi-units (0.6035 mm)
Skewness:	-0.3595	dimensionless	-0.5560	dimensionless
Kurtosis:	5.5069	dimensionless	6.4049	dimensionless
5th Moment:	-5.6896	dimensionless	-9.2847	dimensionless
6th Moment:	59.2867	dimensionless	78.7652	dimensionless
RARD*:	1.4321	dimensionless	1.4863	dimensionless
Median:	0.3785	phi (0.7692 mm)	0.3893	phi (0.7635 mm)

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

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Additional Data	
Total Fines	
Original:	0.56 %
Duplicate:	0.76 %
Total Carbonates	
Original:	93.73 %
Duplicate:	93.54 %

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: DD-05-BB

Total Duplicate Sample Mass: 55.577 grams

Total Original Sample Mass: 55.525 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	0.269	0.484	0.484	0.759	1.367	1.367
-2.00	-2.125	0.000	0.000	0.484	0.000	0.000	1.367
-1.75	-1.875	0.323	0.581	1.065	0.051	0.092	1.459
-1.50	-1.625	0.314	0.565	1.630	0.210	0.378	1.837
-1.25	-1.375	0.120	0.216	1.846	0.146	0.263	2.100
-1.00	-1.125	0.343	0.617	2.463	0.319	0.575	2.675
-0.75	-0.875	0.556	1.000	3.464	0.618	1.113	3.788
-0.50	-0.625	1.343	2.416	5.880	1.214	2.187	5.974
-0.25	-0.375	2.998	5.394	11.274	2.685	4.836	10.811
0.00	-0.125	4.449	8.005	19.280	4.273	7.696	18.507
0.25	0.125	6.025	10.841	30.120	6.330	11.401	29.908
0.50	0.375	10.902	19.616	49.736	10.538	18.981	48.889
0.75	0.625	10.533	18.952	68.688	10.793	19.440	68.329
1.00	0.875	7.683	13.824	82.513	7.388	13.307	81.635
1.25	1.125	3.905	7.026	89.539	4.086	7.360	88.995
1.50	1.375	2.652	4.772	94.311	2.822	5.083	94.078
1.75	1.625	1.468	2.641	96.952	1.500	2.702	96.780
2.00	1.875	0.795	1.430	98.382	0.801	1.443	98.222
2.25	2.125	0.402	0.723	99.106	0.426	0.767	98.990
2.50	2.375	0.166	0.299	99.404	0.180	0.324	99.314
2.75	2.625	0.143	0.257	99.662	0.148	0.267	99.580
3.00	2.875	0.077	0.139	99.800	0.088	0.159	99.739
3.25	3.125	0.056	0.101	99.901	0.063	0.113	99.852
3.50	3.375	0.029	0.052	99.953	0.034	0.061	99.914
3.75	3.625	0.026	0.047	100.000	0.028	0.050	99.964
4.00	3.875	0.000	0.000	100.000	0.020	0.036	100.000
5.00	4.500	0.000	0.000	100.000	0.005	0.009	100.009



