

# Quality Control Statistical Summary

Onshore Grab Sample: DD-15-BB

Sample Taken By: D. Phelps  
 Sample Taken On: 02/24/09  
 County: Dade

Latitude: 25° 45' 52.3"  
 Longitude: 80° 07' 51.4"  
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	1.3551	phi (0.3909 mm)	1.4325	phi (0.3705 mm)
Standard Dev:	1.0812	phi-units (0.4726 mm)	1.0462	phi-units (0.4842 mm)
Skewness:	-0.5508	dimensionless	-0.4321	dimensionless
Kurtosis:	3.3434	dimensionless	2.9272	dimensionless
5th Moment:	-5.6781	dimensionless	-3.4512	dimensionless
6th Moment:	22.8594	dimensionless	15.5883	dimensionless
RARD*:	0.7979	dimensionless	0.7303	dimensionless
Median:	1.3352	phi (0.3963 mm)	1.4156	phi (0.3749 mm)

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

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Additional Data	
<b>Total Fines</b>	
Original:	1.02 %
Duplicate:	1.53 %
<b>Total Carbonates</b>	
Original:	96.02 %
Duplicate:	94.19 %

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-15-BB

Total Duplicate Sample Mass: 61.659 grams

Total Original Sample Mass: 70.464 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	0.491	0.796	0.796	0.090	0.128	0.128
-2.00	-2.125	0.043	0.070	0.866	0.000	0.000	0.128
-1.75	-1.875	0.162	0.263	1.129	0.147	0.209	0.337
-1.50	-1.625	0.047	0.076	1.205	0.222	0.315	0.652
-1.25	-1.375	0.275	0.446	1.651	0.216	0.307	0.959
-1.00	-1.125	0.219	0.355	2.006	0.367	0.521	1.481
-0.75	-0.875	0.477	0.774	2.780	0.634	0.901	2.382
-0.50	-0.625	1.162	1.885	4.664	1.203	1.709	4.091
-0.25	-0.375	1.814	2.942	7.606	1.995	2.835	6.926
0.00	-0.125	2.118	3.435	11.041	2.161	3.071	9.996
0.25	0.125	2.291	3.716	14.757	2.389	3.395	13.391
0.50	0.375	3.754	6.088	20.845	3.854	5.476	18.867
0.75	0.625	4.365	7.079	27.925	4.714	6.698	25.566
1.00	0.875	4.837	7.845	35.769	5.281	7.504	33.070
1.25	1.125	4.365	7.079	42.849	4.898	6.960	40.030
1.50	1.375	5.245	8.506	51.355	6.020	8.554	48.584
1.75	1.625	5.414	8.781	60.136	6.143	8.729	57.313
2.00	1.875	5.405	8.766	68.902	6.620	9.407	66.720
2.25	2.125	5.889	9.551	78.452	7.073	10.050	76.770
2.50	2.375	4.427	7.180	85.632	5.419	7.700	84.470
2.75	2.625	4.553	7.384	93.016	5.670	8.057	92.527
3.00	2.875	2.368	3.840	96.857	2.912	4.138	96.665
3.25	3.125	1.131	1.834	98.691	1.303	1.852	98.517
3.50	3.375	0.421	0.683	99.374	0.530	0.753	99.270
3.75	3.625	0.323	0.524	99.898	0.320	0.455	99.724
4.00	3.875	0.000	0.000	99.898	0.194	0.276	100.000
5.00	4.500	0.063	0.102	100.000	0.089	0.126	100.126



