

# Quality Control Statistical Summary

## Onshore Grab Sample: WK-02-BB

Sample Taken By: D. Phelps  
 Sample Taken On: 01/07/11  
 County: Wakulla

Latitude: 29° 58' 34.2" N  
 Longitude: 84° 20' 29.9" W  
 Datum: WGS 84

Statistical Results: Pre-CaCO3			
	Duplicate		Original
Mean:	0.7531	phi (0.5933 mm)	0.8812 phi (0.5429 mm)
Standard Dev:	0.5409	phi-units (0.6873 mm)	0.5911 phi-units (0.6638 mm)
Skewness:	-0.0215	dimensionless	-0.0030 dimensionless
Kurtosis:	3.5123	dimensionless	3.4880 dimensionless
5th Moment:	2.9395	dimensionless	3.7008 dimensionless
6th Moment:	30.8564	dimensionless	32.5166 dimensionless
RARD*:	0.7182	dimensionless	0.6708 dimensionless
Median:	0.6760	phi (0.6259 mm)	0.8033 phi (0.573 mm)

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

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Additional Data	
<b>Total Fines</b>	
Original:	0.13 %
Duplicate:	0.02 %
<b>Total Carbonates</b>	
Original:	0.4 %
Duplicate:	0.49 %

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: WK-02-BB

Total Duplicate Sample Mass: 55.236 grams

Total Original Sample Mass: 58.593 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	0.000	0.000	0.000	0.000	0.000	0.000
-0.75	-0.875	0.067	0.121	0.121	0.072	0.123	0.123
-0.50	-0.625	0.479	0.867	0.988	0.326	0.556	0.679
-0.25	-0.375	1.370	2.480	3.469	1.234	2.106	2.785
0.00	-0.125	3.432	6.213	9.682	3.134	5.349	8.134
0.25	0.125	4.245	7.685	17.367	3.924	6.697	14.831
0.50	0.375	6.933	12.552	29.919	6.418	10.954	25.785
0.75	0.625	8.338	15.095	45.014	7.913	13.505	39.290
1.00	0.875	13.502	24.444	69.458	8.797	15.014	54.303
1.25	1.125	7.560	13.687	83.145	10.250	17.494	71.797
1.50	1.375	5.969	10.806	93.951	9.595	16.376	88.173
1.75	1.625	2.096	3.795	97.746	4.509	7.695	95.868
2.00	1.875	0.698	1.264	99.010	1.326	2.263	98.131
2.25	2.125	0.249	0.451	99.460	0.516	0.881	99.012
2.50	2.375	0.135	0.244	99.705	0.215	0.367	99.379
2.75	2.625	0.079	0.143	99.848	0.142	0.242	99.621
3.00	2.875	0.053	0.096	99.944	0.119	0.203	99.824
3.25	3.125	0.018	0.033	99.976	0.048	0.082	99.906
3.50	3.375	0.007	0.013	99.989	0.021	0.036	99.942
3.75	3.625	0.002	0.004	99.993	0.013	0.022	99.964
4.00	3.875	0.000	0.000	99.993	0.011	0.019	99.983
5.00	4.500	0.004	0.007	100.000	0.010	0.017	100.000



