

# Quality Control Statistical Summary

Onshore Grab Sample: ES-34-BB

Sample Taken By: D. Phelps

Latitude: 30° 21' 23.6" N

Sample Taken On: 03/30/11

Longitude: 87° 0' 14" W

County: Escambia

Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	1.5231	phi (0.3479 mm)	1.4941	phi (0.355 mm)
Standard Dev:	0.3364	phi-units (0.792 mm)	0.3450	phi-units (0.7873 mm)
Skewness:	-0.1501	dimensionless	-0.1862	dimensionless
Kurtosis:	5.1654	dimensionless	4.5520	dimensionless
5th Moment:	1.6858	dimensionless	0.8428	dimensionless
6th Moment:	90.2420	dimensionless	63.6024	dimensionless
RARD*:	0.2208	dimensionless	0.2309	dimensionless
Median:	1.4065	phi (0.3772 mm)	1.3812	phi (0.3839 mm)

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

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Additional Data	
<b>Total Fines</b>	
Original:	0.01 %
Duplicate:	0.02 %
<b>Total Carbonates</b>	
Original:	0.11 %
Duplicate:	0.31 %

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: ES-34-BB

Total Duplicate Sample Mass: 51.646 grams

Total Original Sample Mass: 48.533 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	0.000	0.000	0.000	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000	0.000	0.000	0.000
0.00	-0.125	0.049	0.095	0.095	0.032	0.066	0.066
0.25	0.125	0.060	0.116	0.211	0.064	0.132	0.198
0.50	0.375	0.182	0.352	0.563	0.212	0.437	0.635
0.75	0.625	0.444	0.860	1.423	0.605	1.247	1.881
1.00	0.875	2.360	4.570	5.993	2.803	5.775	7.657
1.25	1.125	5.193	10.055	16.048	5.826	12.004	19.661
1.50	1.375	15.464	29.942	45.990	14.363	29.594	49.255
1.75	1.625	16.441	31.834	77.824	14.616	30.116	79.371
2.00	1.875	8.781	17.002	94.826	7.830	16.133	95.504
2.25	2.125	1.905	3.689	98.515	1.571	3.237	98.741
2.50	2.375	0.518	1.003	99.518	0.426	0.878	99.619
2.75	2.625	0.168	0.325	99.843	0.120	0.247	99.866
3.00	2.875	0.056	0.108	99.952	0.045	0.093	99.959
3.25	3.125	0.014	0.027	99.979	0.009	0.019	99.977
3.50	3.375	0.005	0.010	99.988	0.006	0.012	99.990
3.75	3.625	0.002	0.004	99.992	0.001	0.002	99.992
4.00	3.875	0.000	0.000	99.992	0.002	0.004	99.996
5.00	4.500	0.004	0.008	100.000	0.002	0.004	100.000



