

# Quality Control Statistical Summary

Onshore Grab Sample: ES-14-BB

Sample Taken By: D. Phelps

Latitude: 30° 19' 17.7" N

Sample Taken On: 03/29/11

Longitude: 87° 18' 49.8" W

County: Escambia

Datum: WGS 84

Statistical Results: Pre-CaCO3						
	Duplicate			Original		
Mean:	2.0186	phi	(0.2468 mm)	1.9859	phi	(0.2525 mm)
Standard Dev:	0.3478	phi-units	(0.7858 mm)	0.3568	phi-units	(0.7809 mm)
Skewness:	-0.2329	dimensionless		-0.2241	dimensionless	
Kurtosis:	3.7568	dimensionless		4.0058	dimensionless	
5th Moment:	-3.2284	dimensionless		-5.1367	dimensionless	
6th Moment:	38.2857	dimensionless		53.7021	dimensionless	
RARD*:	0.1723	dimensionless		0.1797	dimensionless	
Median:	1.9014	phi	(0.2677 mm)	1.8599	phi	(0.2755 mm)

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

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

Additional Data	
<b>Total Fines</b>	
Original:	0.11 %
Duplicate:	0.16 %
<b>Total Carbonates</b>	
Original:	0.11 %
Duplicate:	0.3 %

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-14-BB

Total Duplicate Sample Mass: 47.579 grams

Total Original Sample Mass: 45.917 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	0.000	0.000	0.000	0.028	0.061	0.061
0.25	0.125	0.018	0.038	0.038	0.005	0.011	0.072
0.50	0.375	0.011	0.023	0.061	0.008	0.017	0.089
0.75	0.625	0.036	0.076	0.137	0.024	0.052	0.142
1.00	0.875	0.148	0.311	0.448	0.183	0.399	0.540
1.25	1.125	0.449	0.944	1.391	0.529	1.152	1.692
1.50	1.375	2.576	5.414	6.806	2.890	6.294	7.986
1.75	1.625	5.933	12.470	19.275	6.965	15.169	23.155
2.00	1.875	13.189	27.720	46.996	13.118	28.569	51.724
2.25	2.125	13.554	28.487	75.483	11.813	25.727	77.451
2.50	2.375	8.469	17.800	93.283	7.578	16.504	93.954
2.75	2.625	2.660	5.591	98.873	2.306	5.022	98.976
3.00	2.875	0.469	0.986	99.859	0.416	0.906	99.882
3.25	3.125	0.043	0.090	99.950	0.033	0.072	99.954
3.50	3.375	0.016	0.034	99.983	0.011	0.024	99.978
3.75	3.625	0.006	0.013	99.996	0.005	0.011	99.989
4.00	3.875	0.000	0.000	99.996	0.003	0.007	99.996
5.00	4.500	0.002	0.004	100.000	0.002	0.004	100.000



