

# Quality Control Statistical Summary

Onshore Grab Sample: BY-14-BB

Sample Taken By: D. Phelps

Latitude: 30° 10' 31.3" N

Sample Taken On: 02/14/11

Longitude: 85° 48' 21.3" W

County: Bay

Datum: WGS 84

Statistical Results: Pre-CaCO3					
	Duplicate			Original	
Mean:	0.9849	phi	(0.5053 mm)	1.0701	phi (0.4763 mm)
Standard Dev:	0.9247	phi-units	(0.5268 mm)	0.9308	phi-units (0.5246 mm)
Skewness:	0.1661	dimensionless		-0.0295	dimensionless
Kurtosis:	2.6250	dimensionless		2.6979	dimensionless
5th Moment:	1.0001	dimensionless		-0.2683	dimensionless
6th Moment:	11.0267	dimensionless		11.3133	dimensionless
RARD*:	0.9388	dimensionless		0.8698	dimensionless
Median:	0.7993	phi	(0.5746 mm)	0.9453	phi (0.5193 mm)

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

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Additional Data	
<b>Total Fines</b>	
Original:	0.08 %
Duplicate:	0.06 %
<b>Total Carbonates</b>	
Original:	0.57 %
Duplicate:	1.04 %

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

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Total Duplicate Sample Mass: 50.362 grams

Total Original Sample Mass: 51.478 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	0.023	0.046	0.046	0.000	0.000	0.000
-1.50	-1.625	0.060	0.119	0.165	0.050	0.097	0.097
-1.25	-1.375	0.157	0.312	0.477	0.218	0.423	0.521
-1.00	-1.125	0.147	0.292	0.768	0.624	1.212	1.733
-0.75	-0.875	0.545	1.082	1.851	0.259	0.503	2.236
-0.50	-0.625	1.055	2.095	3.945	0.947	1.840	4.076
-0.25	-0.375	1.626	3.229	7.174	1.436	2.790	6.865
0.00	-0.125	3.729	7.404	14.578	3.046	5.917	12.782
0.25	0.125	3.932	7.807	22.386	3.389	6.583	19.366
0.50	0.375	5.392	10.706	33.092	4.610	8.955	28.321
0.75	0.625	4.633	9.199	42.292	4.270	8.295	36.616
1.00	0.875	5.567	11.054	53.346	5.649	10.974	47.589
1.25	1.125	3.810	7.565	60.911	4.414	8.575	56.164
1.50	1.375	4.841	9.612	70.523	5.522	10.727	66.891
1.75	1.625	4.195	8.330	78.853	4.814	9.352	76.242
2.00	1.875	3.699	7.345	86.198	4.350	8.450	84.692
2.25	2.125	2.167	4.303	90.501	2.534	4.922	89.615
2.50	2.375	1.837	3.648	94.148	2.069	4.019	93.634
2.75	2.625	1.321	2.623	96.771	1.522	2.957	96.591
3.00	2.875	1.033	2.051	98.823	1.133	2.201	98.792
3.25	3.125	0.322	0.639	99.462	0.339	0.659	99.450
3.50	3.375	0.179	0.355	99.817	0.171	0.332	99.782
3.75	3.625	0.079	0.157	99.974	0.072	0.140	99.922
4.00	3.875	0.000	0.000	99.974	0.033	0.064	99.986
5.00	4.500	0.013	0.026	100.000	0.007	0.014	100.000



