

# Quality Control Statistical Summary

Onshore Grab Sample: BY-04-BB

Sample Taken By: D. Phelps

Latitude: 30° 14' 45.9" N

Sample Taken On: 02/15/11

Longitude: 85° 56' 24.6" W

County: Bay

Datum: WGS 84

Statistical Results: Pre-CaCO3					
	Duplicate			Original	
Mean:	1.6295	phi	(0.3232 mm)	1.5840	phi (0.3336 mm)
Standard Dev:	0.4202	phi-units	(0.7473 mm)	0.5384	phi-units (0.6885 mm)
Skewness:	-0.3226	dimensionless		-1.1301	dimensionless
Kurtosis:	5.0845	dimensionless		6.1085	dimensionless
5th Moment:	-3.3816	dimensionless		-14.1406	dimensionless
6th Moment:	56.5438	dimensionless		64.7085	dimensionless
RARD*:	0.2579	dimensionless		0.3399	dimensionless
Median:	1.5063	phi	(0.352 mm)	1.5112	phi (0.3508 mm)

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

Statistical Results: Post-CaCO3	
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Additional Data	
<b>Total Fines</b>	
Original:	0.04 %
Duplicate:	0.02 %
<b>Total Carbonates</b>	
Original:	0.29 %
Duplicate:	0.17 %

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: 54.692 grams

Total Original Sample Mass: 43.645 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
Not Enough	-0.375	0.000	0.000	0.000	0.876	2.007	2.007
0.00	-0.125	0.000	0.000	0.000	0.034	0.078	2.085
0.25	0.125	0.389	0.711	0.711	0.505	1.157	3.242
0.50	0.375	1.133	2.072	2.783	1.161	2.660	5.902
Not Enough	0.625	0.004	0.007	2.790	0.033	0.076	5.978
1.00	0.875	0.043	0.079	2.869	0.037	0.085	6.063
1.25	1.125	5.975	10.925	13.794	5.252	12.033	18.096
1.50	1.375	12.488	22.833	36.627	9.337	21.393	39.489
1.75	1.625	13.925	25.461	62.088	8.423	19.299	58.788
2.00	1.875	12.337	22.557	84.645	10.670	24.447	83.235
2.25	2.125	5.351	9.784	94.429	4.809	11.018	94.254
2.50	2.375	2.157	3.944	98.373	1.816	4.161	98.414
2.75	2.625	0.577	1.055	99.428	0.447	1.024	99.439
3.00	2.875	0.219	0.400	99.828	0.142	0.325	99.764
3.25	3.125	0.052	0.095	99.923	0.027	0.062	99.826
3.50	3.375	0.025	0.046	99.969	0.011	0.025	99.851
3.75	3.625	0.010	0.018	99.987	0.057	0.131	99.982
4.00	3.875	0.000	0.000	99.987	0.007	0.016	99.998
5.00	4.500	0.007	0.013	100.000	0.001	0.002	100.000



