

# Quality Control Statistical Summary

Onshore Grab Sample: OA-16-BB

Sample Taken By: J. Ladner

Latitude: 30° 23' 35.61"

Sample Taken On: 09/14/06

Longitude: 86° 34' 47.19"

County: Okaloosa

Datum: NAD 83

Statistical Results: Pre-CaCO3						
	Duplicate			Original		
Mean:	1.7361	phi	(0.3002 mm)	1.7178	phi	(0.304 mm)
Standard Dev:	0.2434	phi-units	(0.8448 mm)	0.2425	phi-units	(0.8453 mm)
Skewness:	0.4561	dimensionless		0.3184	dimensionless	
Kurtosis:	5.1729	dimensionless		4.9338	dimensionless	
5th Moment:	13.0625	dimensionless		11.0570	dimensionless	
6th Moment:	125.5594	dimensionless		132.6101	dimensionless	
RARD*:	0.1402	dimensionless		0.1412	dimensionless	
Median:	1.5936	phi	(0.3313 mm)	1.5759	phi	(0.3354 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:	0.05 %
Duplicate:	0.02 %
<b>Total Carbonates</b>	
Original:	0.06 %
Duplicate:	1.44 %

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: OA-16-BB

Total Duplicate Sample Mass: 72.881 grams

Total Original Sample Mass: 66.167 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	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000	0.004	0.006	0.006
0.50	0.375	0.000	0.000	0.000	0.004	0.006	0.012
0.75	0.625	0.037	0.051	0.051	0.018	0.027	0.039
1.00	0.875	0.138	0.189	0.240	0.135	0.204	0.243
1.25	1.125	0.721	0.989	1.229	1.014	1.532	1.776
1.50	1.375	8.418	11.550	12.780	8.541	12.908	14.684
1.75	1.625	31.021	42.564	55.344	29.082	43.952	58.636
2.00	1.875	24.587	33.736	89.079	20.553	31.062	89.699
2.25	2.125	6.121	8.399	97.478	5.606	8.473	98.171
2.50	2.375	1.513	2.076	99.554	1.027	1.552	99.723
2.75	2.625	0.239	0.328	99.882	0.137	0.207	99.930
3.00	2.875	0.059	0.081	99.963	0.030	0.045	99.976
3.25	3.125	0.013	0.018	99.981	0.006	0.009	99.985
3.50	3.375	0.008	0.011	99.992	0.005	0.008	99.992
3.75	3.625	0.004	0.005	99.997	0.002	0.003	99.995
4.00	3.875	0.000	0.000	99.997	0.001	0.002	99.997
5.00	4.500	0.002	0.003	100.000	0.002	0.003	100.000



