

**Onshore Grab Sample**

**Sample:** OA-01-MB  
**Sample Taken By:** J. Ladner  
**Sample Collected On:** 9/14/06  
**Splits?** Yes

**County:** Okaloosa  
**Latitude:** 30° 23' 18.39"  
**Longitude:** 86° 47' 14.26"  
**Datum:** NAD 83  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 65.102 grams  
Total Fines in Sample 0.015 grams  
Total Percent Fines 0.02 %

**Dry Sieving Summary**

Total Sample Weight 65.015 grams  
Total Digested Weight 64.911 grams  
Total Carbonate Weight 0.104 grams  
Total Silica % 99.84 %  
Total Carbonate % 0.16 %  
Carbonate/Silica Ratio 0.002

**General Comments:**

Original Weight (with Beaker): 427.94; Not enough Carbonate Material to run a Post-Digestion Analysis

**Description**

Worked By: M. Lachance

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: OA-01-MB

Total Sample Mass: 65.015 grams

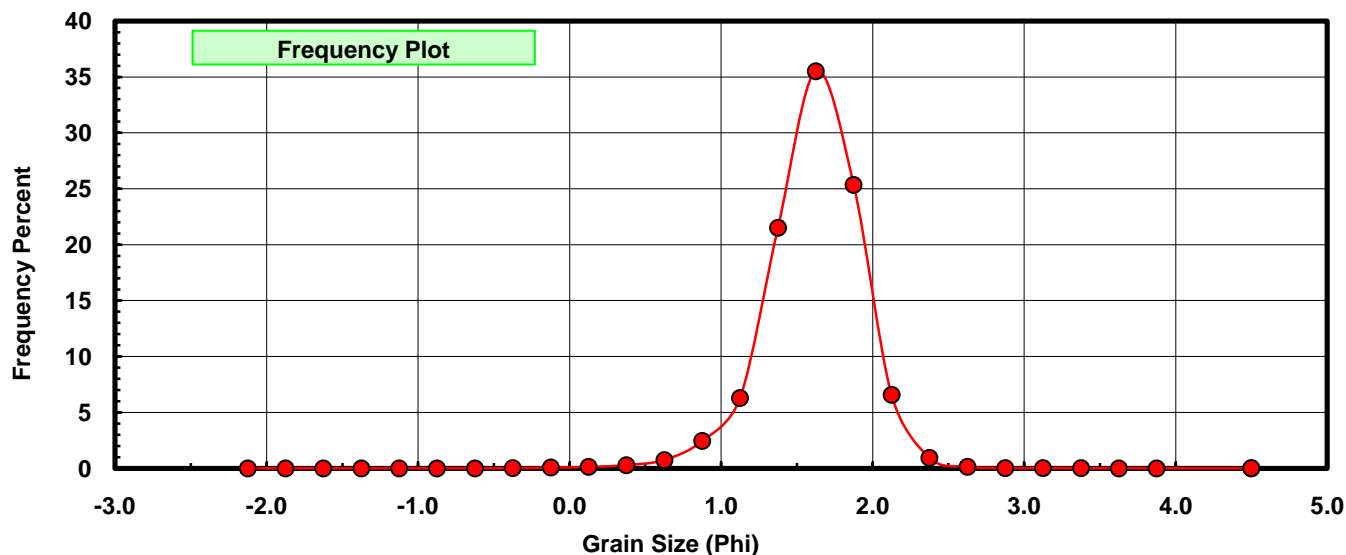
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.003	0.005	0.005
0.00	-0.125	0.040	0.062	0.066
0.25	0.125	0.079	0.122	0.188
0.50	0.375	0.184	0.283	0.471
0.75	0.625	0.486	0.748	1.218
1.00	0.875	1.585	2.438	3.656
1.25	1.125	4.090	6.291	9.947
1.50	1.375	13.979	21.501	31.448
1.75	1.625	23.087	35.510	66.958
2.00	1.875	16.483	25.353	92.311
2.25	2.125	4.264	6.558	98.869
2.50	2.375	0.614	0.944	99.814
2.75	2.625	0.091	0.140	99.954
3.00	2.875	0.012	0.018	99.972
3.25	3.125	0.008	0.012	99.985
3.50	3.375	0.004	0.006	99.991
3.75	3.625	0.002	0.003	99.994
4.00	3.875	0.001	0.002	99.995
5.00	4.500	0.000	0.000	99.995
5.00	4.50	0.003	0.005	100.000

Statistical Results			
Mean:	1.6129	phi	(0.3269 mm)
Standard Dev:	0.3182	phi-units	(0.802 mm)
Skewness:	-0.5827	dimensionless	
Kurtosis:	5.3184	dimensionless	
5th Moment:	-6.9129	dimensionless	
6th Moment:	92.3284	dimensionless	
RARD *	0.1973	dimensionless	
Median	1.5056	phi	(0.3522 mm)

\* RARD = reciprocal absolute relative dispersion (see below)

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	
For Further Explanation, See Basille et al. 2002	
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)



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