

**Onshore Grab Sample**

**Sample:** MO-08-BB  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 4/14/10  
**Splits?** N/A

**County:** Monroe  
**Latitude:** 24° 43' 40.4"  
**Longitude:** 80° 0' 18.6"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 36.92 grams  
Total Fines in Sample 1.627 grams  
Total Percent Fines 4.22 %

**Dry Sieving Summary**

Total Sample Weight 35.550 grams  
Total Digested Weight 3.694 grams  
Total Carbonate Weight 31.856 grams  
Total Silica % 10.39 %  
Total Carbonate % 89.61 %  
Carbonate/Silica Ratio 8.624

**General Comments:**

Not Enough Sample to do Post-Digestion Analysis

**Description**

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MO-08-BB

Total Sample Mass: 35.550 grams

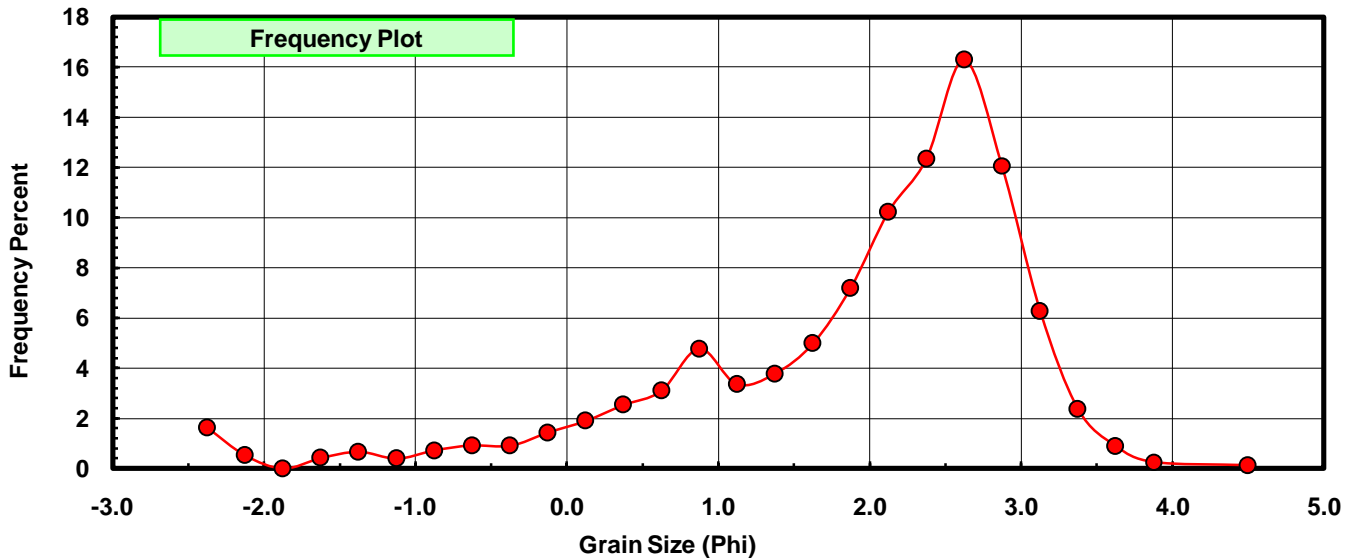
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.578	1.626	1.626
-2.00	-2.125	0.184	0.518	2.143
-1.75	-1.875	0.000	0.000	2.143
-1.50	-1.625	0.147	0.414	2.557
-1.25	-1.375	0.235	0.661	3.218
-1.00	-1.125	0.137	0.385	3.603
-0.75	-0.875	0.251	0.706	4.309
-0.50	-0.625	0.323	0.909	5.218
-0.25	-0.375	0.322	0.906	6.124
0.00	-0.125	0.506	1.423	7.547
0.25	0.125	0.676	1.902	9.449
0.50	0.375	0.900	2.532	11.980
0.75	0.625	1.100	3.094	15.075
1.00	0.875	1.697	4.774	19.848
1.25	1.125	1.191	3.350	23.198
1.50	1.375	1.342	3.775	26.973
1.75	1.625	1.772	4.985	31.958
2.00	1.875	2.558	7.195	39.153
2.25	2.125	3.638	10.233	49.387
2.50	2.375	4.385	12.335	61.722
2.75	2.625	5.791	16.290	78.011
3.00	2.875	4.293	12.076	90.087
3.25	3.125	2.230	6.273	96.360
3.50	3.375	0.841	2.366	98.726
3.75	3.625	0.317	0.892	99.617
4.00	3.875	0.091	0.256	99.873
5.00	4.50	0.045	0.127	100.000

Statistical Results			
Mean:	1.9007	phi	(0.2678 mm)
Standard Dev:	1.2146	phi-units	(0.4309 mm)
Skewness:	-1.4466	dimensionless	
Kurtosis:	5.1308	dimensionless	
5th Moment:	-14.5725	dimensionless	
6th Moment:	48.3071	dimensionless	
RARD *	0.6390	dimensionless	
Median	2.1374	phi	(0.2273 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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