

**Onshore Grab Sample**

**Sample:** MO-12  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 4/15/10  
**Splits?** N/A

**County:** Monroe  
**Latitude:** 24° 40' 51.1"  
**Longitude:** 81° 13' 50.8"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 62.362 grams  
Total Fines in Sample 0.787 grams  
Total Percent Fines 1.25 %

**Dry Sieving Summary**

Total Sample Weight 61.674 grams  
Total Digested Weight 0.234 grams  
Total Carbonate Weight 61.440 grams  
Total Silica % 0.38 %  
Total Carbonate % 99.62 %  
Carbonate/Silica Ratio 262.564

**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-12

Total Sample Mass: 61.674 grams

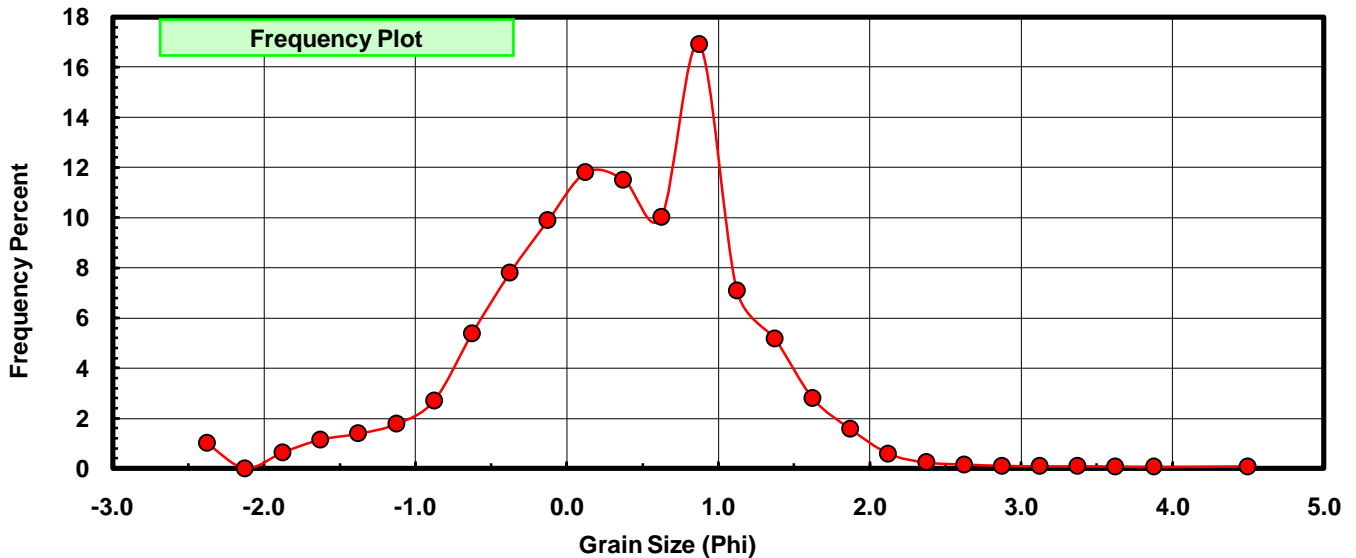
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.620	1.005	1.005
-2.00	-2.125	0.000	0.000	1.005
-1.75	-1.875	0.393	0.637	1.643
-1.50	-1.625	0.702	1.138	2.781
-1.25	-1.375	0.856	1.388	4.169
-1.00	-1.125	1.094	1.774	5.943
-0.75	-0.875	1.665	2.700	8.642
-0.50	-0.625	3.308	5.364	14.006
-0.25	-0.375	4.814	7.806	21.811
0.00	-0.125	6.097	9.886	31.697
0.25	0.125	7.280	11.804	43.501
0.50	0.375	7.096	11.506	55.007
0.75	0.625	6.180	10.020	65.027
1.00	0.875	10.439	16.926	81.953
1.25	1.125	4.377	7.097	89.050
1.50	1.375	3.182	5.159	94.210
1.75	1.625	1.723	2.794	97.004
2.00	1.875	0.969	1.571	98.575
2.25	2.125	0.356	0.577	99.152
2.50	2.375	0.145	0.235	99.387
2.75	2.625	0.088	0.143	99.530
3.00	2.875	0.062	0.101	99.630
3.25	3.125	0.050	0.081	99.711
3.50	3.375	0.051	0.083	99.794
3.75	3.625	0.043	0.070	99.864
4.00	3.875	0.039	0.063	99.927
5.00	4.50	0.045	0.073	100.000

Statistical Results			
Mean:	0.3402	phi	(0.7899 mm)
Standard Dev:	0.8481	phi-units	(0.5555 mm)
Skewness:	-0.2525	dimensionless	
Kurtosis:	4.2489	dimensionless	
5th Moment:	-0.0952	dimensionless	
6th Moment:	38.9493	dimensionless	
RARD *	2.4929	dimensionless	
Median	0.2662	phi	(0.8315 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)



# MO-12

