

**Onshore Grab Sample**

**Sample:** MO-18  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 4/14/10  
**Splits?** N/A

**County:** Monroe  
**Latitude:** 24° 38' 52.8"  
**Longitude:** 81° 18' 49.2"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 53.967 grams  
Total Fines in Sample 1.209 grams  
Total Percent Fines 2.19 %

**Dry Sieving Summary**

Total Sample Weight 53.440 grams  
Total Digested Weight 0.021 grams  
Total Carbonate Weight 53.419 grams  
Total Silica % 0.04 %  
Total Carbonate % 99.96 %  
Carbonate/Silica Ratio 2543.762

**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-18

Total Sample Mass: 53.440 grams

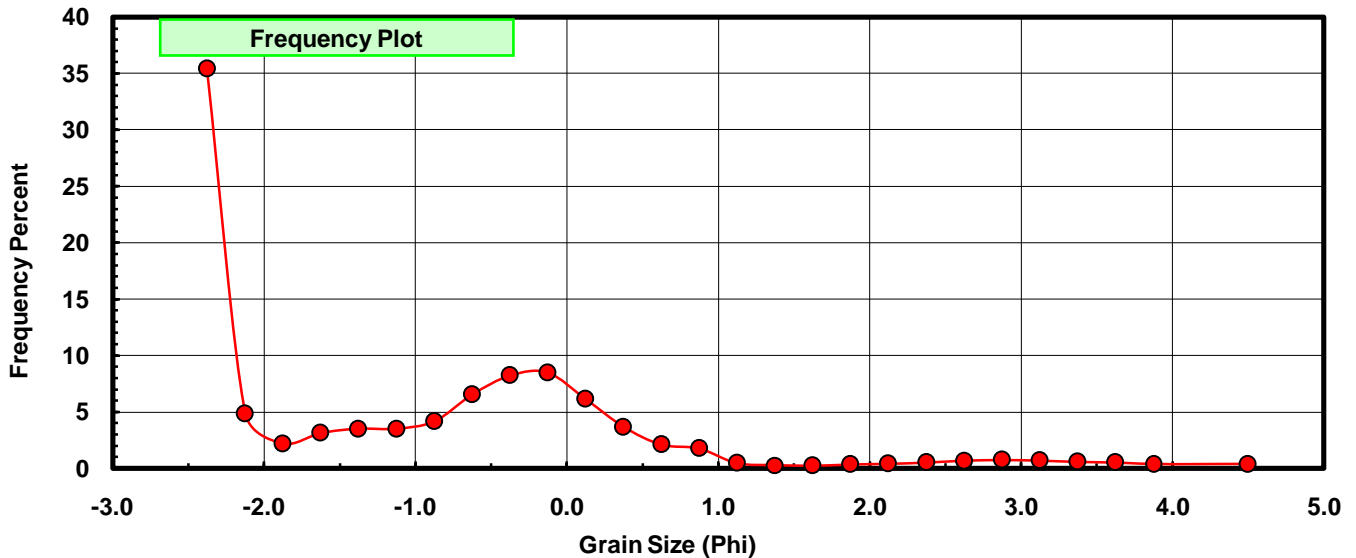
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	18.921	35.406	35.406
-2.00	-2.125	2.595	4.856	40.262
-1.75	-1.875	1.177	2.202	42.464
-1.50	-1.625	1.673	3.131	45.595
-1.25	-1.375	1.868	3.496	49.091
-1.00	-1.125	1.866	3.492	52.582
-0.75	-0.875	2.227	4.167	56.750
-0.50	-0.625	3.501	6.551	63.301
-0.25	-0.375	4.399	8.232	71.533
0.00	-0.125	4.533	8.482	80.015
0.25	0.125	3.282	6.141	86.156
0.50	0.375	1.963	3.673	89.830
0.75	0.625	1.136	2.126	91.955
1.00	0.875	0.952	1.781	93.737
1.25	1.125	0.251	0.470	94.207
1.50	1.375	0.153	0.286	94.493
1.75	1.625	0.126	0.236	94.729
2.00	1.875	0.195	0.365	95.094
2.25	2.125	0.228	0.427	95.520
2.50	2.375	0.275	0.515	96.035
2.75	2.625	0.353	0.661	96.695
3.00	2.875	0.398	0.745	97.440
3.25	3.125	0.370	0.692	98.132
3.50	3.375	0.315	0.589	98.722
3.75	3.625	0.283	0.530	99.251
4.00	3.875	0.200	0.374	99.626
5.00	4.50	0.200	0.374	100.000

Statistical Results			
Mean:	-1.0201	phi	(2.0281 mm)
Standard Dev:	1.4512	phi-units	(0.3657 mm)
Skewness:	1.1442	dimensionless	
Kurtosis:	4.3339	dimensionless	
5th Moment:	11.8267	dimensionless	
6th Moment:	38.1461	dimensionless	
RARD *	1.4226	dimensionless	
Median	-1.3099	phi	(2.4792 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-18

