

Onshore Grab Sample

Sample: MO-09
Sample Taken By: D. Phelps
Sample Collected On: 4/14/10
Splits? N/A

County: Monroe
Latitude: 24° 43' 10.1"
Longitude: 81° 1' 10.1"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 44.841 grams
Total Fines in Sample 0.494 grams
Total Percent Fines 1.09 %

Dry Sieving Summary

Total Sample Weight 44.578 grams
Total Digested Weight 1.086 grams
Total Carbonate Weight 43.492 grams
Total Silica % 2.44 %
Total Carbonate % 97.56 %
Carbonate/Silica Ratio 40.048

General Comments:

Not Enough Sample to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

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Total Sample Mass: 44.578 grams

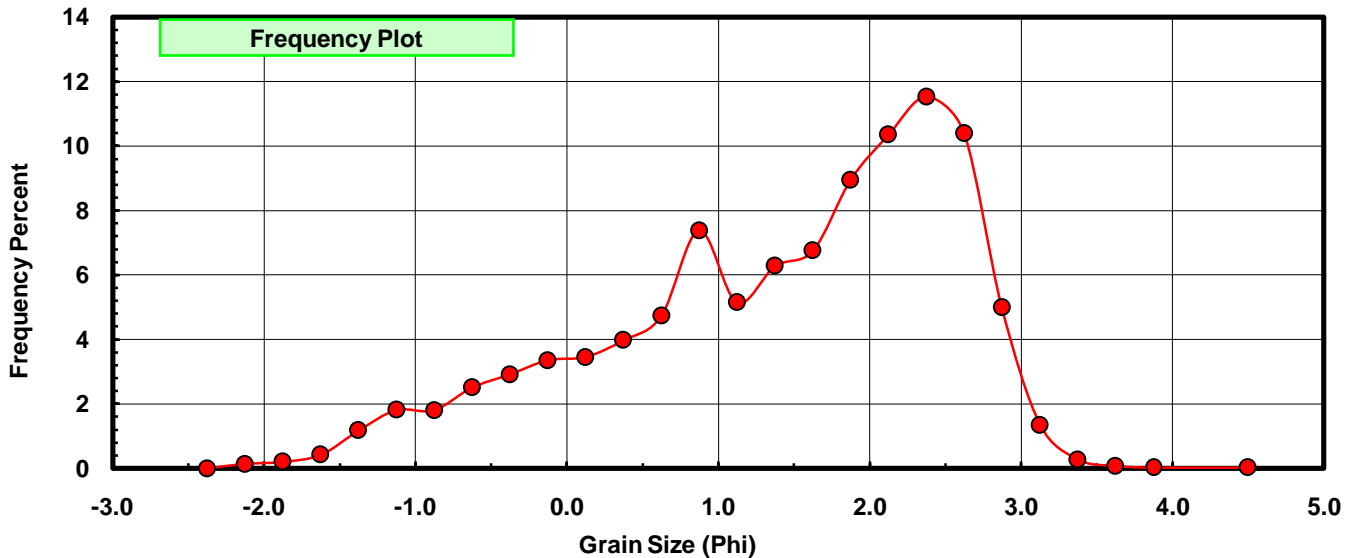
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.058	0.130	0.130
-1.75	-1.875	0.089	0.200	0.330
-1.50	-1.625	0.189	0.424	0.754
-1.25	-1.375	0.525	1.178	1.931
-1.00	-1.125	0.806	1.808	3.740
-0.75	-0.875	0.803	1.801	5.541
-0.50	-0.625	1.116	2.503	8.044
-0.25	-0.375	1.298	2.912	10.956
0.00	-0.125	1.493	3.349	14.305
0.25	0.125	1.540	3.455	17.760
0.50	0.375	1.773	3.977	21.737
0.75	0.625	2.110	4.733	26.470
1.00	0.875	3.291	7.383	33.853
1.25	1.125	2.293	5.144	38.997
1.50	1.375	2.800	6.281	45.278
1.75	1.625	3.012	6.757	52.035
2.00	1.875	3.992	8.955	60.990
2.25	2.125	4.613	10.348	71.338
2.50	2.375	5.140	11.530	82.868
2.75	2.625	4.638	10.404	93.272
3.00	2.875	2.224	4.989	98.261
3.25	3.125	0.598	1.341	99.603
3.50	3.375	0.122	0.274	99.877
3.75	3.625	0.034	0.076	99.953
4.00	3.875	0.011	0.025	99.978
5.00	4.50	0.010	0.022	100.000

Statistical Results			
Mean:	1.4051	phi	(0.3776 mm)
Standard Dev:	1.1571	phi-units	(0.4484 mm)
Skewness:	-0.6869	dimensionless	
Kurtosis:	2.6187	dimensionless	
5th Moment:	-4.0372	dimensionless	
6th Moment:	11.1360	dimensionless	
RARD *	0.8235	dimensionless	
Median	1.5497	phi	(0.3416 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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