

Onshore Grab Sample

Sample: PI-37-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/1/09
Splits? N/A

County: Pinellas
Latitude: 27° 44' 21.1"
Longitude: 82° 45' 23.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	49.543 grams
Total Fines in Sample	0.140 grams
Total Percent Fines	0.28 %

Dry Sieving Summary

Total Sample Weight	49.385 grams
Total Digested Weight	8.803 grams
Total Carbonate Weight	40.582 grams
Total Silica %	17.83 %
Total Carbonate %	82.17 %
Carbonate/Silica Ratio	4.610

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: 49.385 grams

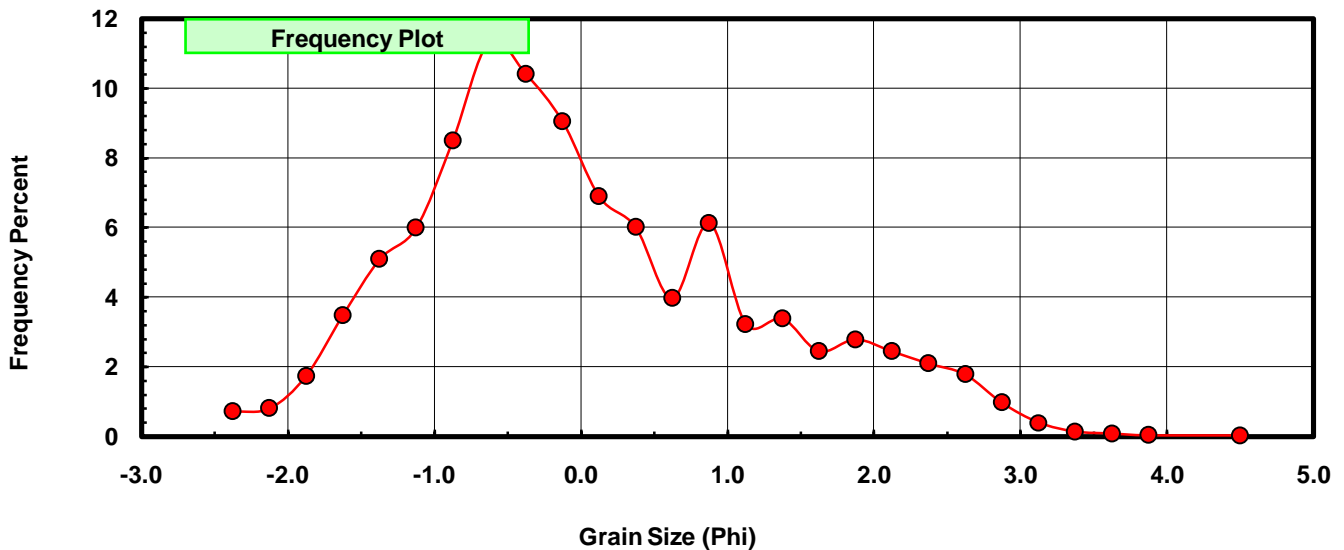
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.356	0.721	0.721
-2.00	-2.125	0.402	0.814	1.535
-1.75	-1.875	0.858	1.737	3.272
-1.50	-1.625	1.717	3.477	6.749
-1.25	-1.375	2.515	5.093	11.842
-1.00	-1.125	2.959	5.992	17.833
-0.75	-0.875	4.192	8.488	26.322
-0.50	-0.625	5.601	11.342	37.663
-0.25	-0.375	5.142	10.412	48.075
0.00	-0.125	4.467	9.045	57.121
0.25	0.125	3.404	6.893	64.013
0.50	0.375	2.970	6.014	70.027
0.75	0.625	1.960	3.969	73.996
1.00	0.875	3.026	6.127	80.124
1.25	1.125	1.594	3.228	83.351
1.50	1.375	1.677	3.396	86.747
1.75	1.625	1.209	2.448	89.195
2.00	1.875	1.378	2.790	91.985
2.25	2.125	1.210	2.450	94.436
2.50	2.375	1.035	2.096	96.531
2.75	2.625	0.884	1.790	98.321
3.00	2.875	0.483	0.978	99.299
3.25	3.125	0.199	0.403	99.702
3.50	3.375	0.070	0.142	99.844
3.75	3.625	0.041	0.083	99.927
4.00	3.875	0.019	0.038	99.966
5.00	4.50	0.017	0.034	100.000

Statistical Results			
Mean:	0.0286	phi	(0.9803 mm)
Standard Dev:	1.1863	phi-units	(0.4394 mm)
Skewness:	0.5840	dimensionless	
Kurtosis:	2.8029	dimensionless	
5th Moment:	3.6489	dimensionless	
6th Moment:	12.3447	dimensionless	
RARD *	41.4335	dimensionless	
Median	-0.3218	phi	(1.2499 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)



PI-37-BB

