

Onshore Grab Sample

Sample: PI-32-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/8/09
Splits? N/A

County: Pinellas
Latitude: 27° 47' 0.2"
Longitude: 82° 47' 3.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 62.79 grams
Total Fines in Sample 0.125 grams
Total Percent Fines 0.20 %

Dry Sieving Summary

Total Sample Weight 62.625 grams
Total Digested Weight 54.541 grams
Total Carbonate Weight 8.084 grams
Total Silica % 87.09 %
Total Carbonate % 12.91 %
Carbonate/Silica Ratio 0.148

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-32-BB

Total Sample Mass: 62.625 grams

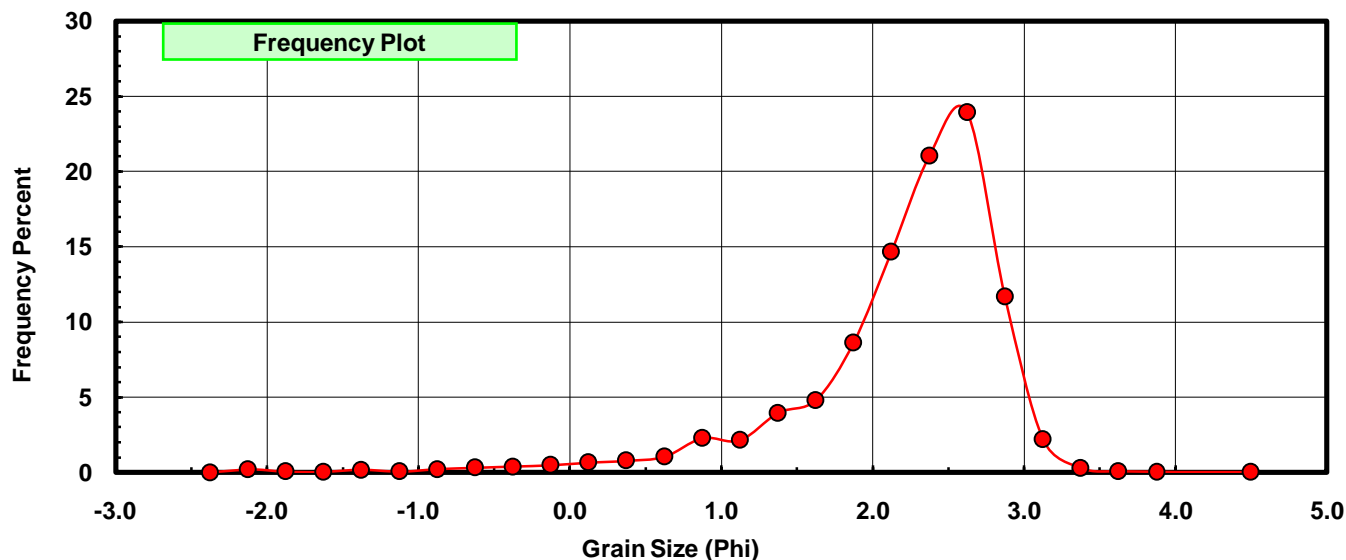
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.120	0.192	0.192
-1.75	-1.875	0.035	0.056	0.248
-1.50	-1.625	0.017	0.027	0.275
-1.25	-1.375	0.095	0.152	0.426
-1.00	-1.125	0.034	0.054	0.481
-0.75	-0.875	0.123	0.196	0.677
-0.50	-0.625	0.200	0.319	0.996
-0.25	-0.375	0.236	0.377	1.373
0.00	-0.125	0.306	0.489	1.862
0.25	0.125	0.409	0.653	2.515
0.50	0.375	0.481	0.768	3.283
0.75	0.625	0.650	1.038	4.321
1.00	0.875	1.420	2.267	6.588
1.25	1.125	1.334	2.130	8.719
1.50	1.375	2.470	3.944	12.663
1.75	1.625	3.006	4.800	17.463
2.00	1.875	5.407	8.634	26.097
2.25	2.125	9.185	14.667	40.763
2.50	2.375	13.169	21.028	61.792
2.75	2.625	14.978	23.917	85.709
3.00	2.875	7.327	11.700	97.408
3.25	3.125	1.368	2.184	99.593
3.50	3.375	0.181	0.289	99.882
3.75	3.625	0.046	0.073	99.955
4.00	3.875	0.016	0.026	99.981
5.00	4.50	0.012	0.019	100.000

Statistical Results			
Mean:	2.1919	phi	(0.2189 mm)
Standard Dev:	0.7094	phi-units	(0.6116 mm)
Skewness:	-2.0382	dimensionless	
Kurtosis:	9.2999	dimensionless	
5th Moment:	-40.8484	dimensionless	
6th Moment:	206.1340	dimensionless	
RARD *	0.3237	dimensionless	
Median	2.2348	phi	(0.2124 mm)

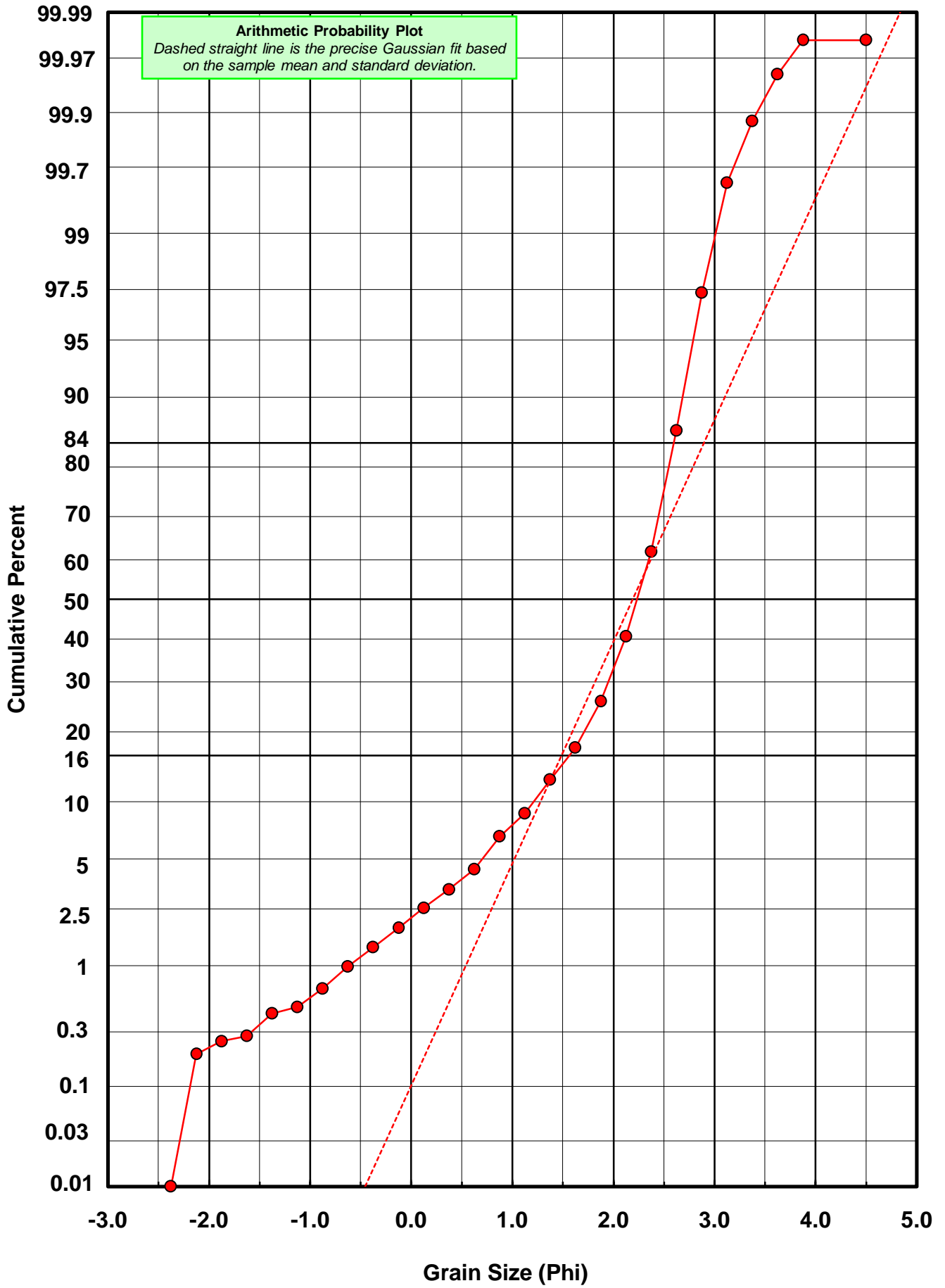
* RARD = reciprocal absolute relative dispersion (see below)

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-32-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-32-BB

Total Carbonate Mass: 8.506 grams

% Carbonate: 12.9 %

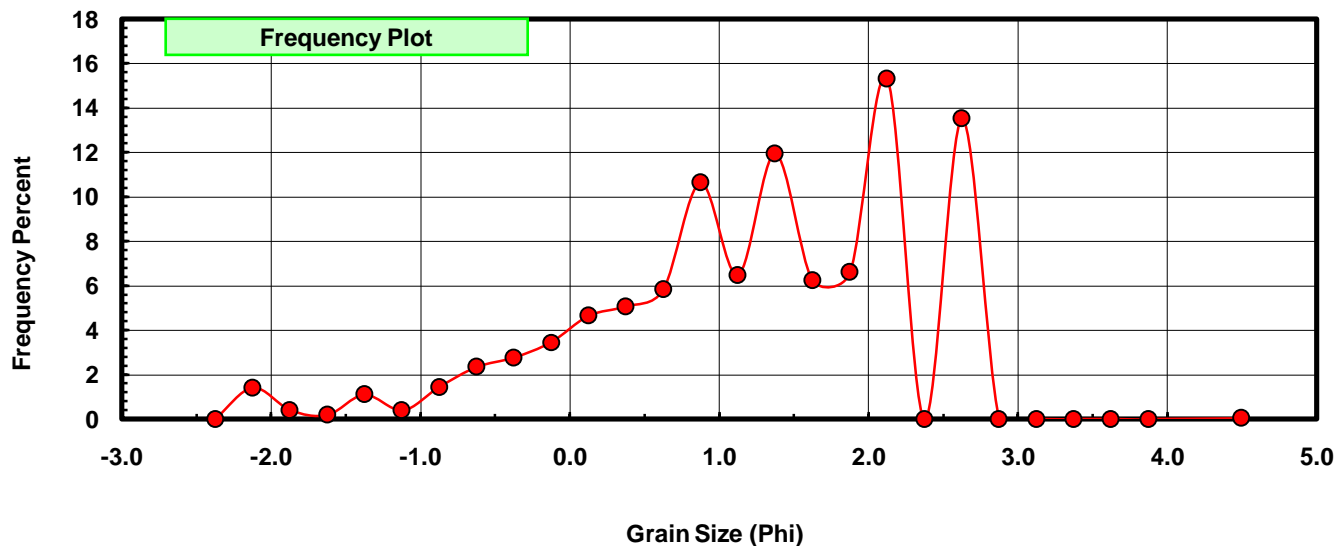
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.120	1.411	1.411
-1.75	-1.875	0.035	0.411	1.822
-1.50	-1.625	0.017	0.200	2.022
-1.25	-1.375	0.095	1.117	3.139
-1.00	-1.125	0.034	0.400	3.539
-0.75	-0.875	0.123	1.446	4.985
-0.50	-0.625	0.200	2.351	7.336
-0.25	-0.375	0.236	2.775	10.111
0.00	-0.125	0.295	3.468	13.579
0.25	0.125	0.396	4.656	18.234
0.50	0.375	0.432	5.079	23.313
0.75	0.625	0.497	5.843	29.156
1.00	0.875	0.905	10.640	39.795
1.25	1.125	0.551	6.478	46.273
1.50	1.375	1.016	11.945	58.218
1.75	1.625	0.532	6.254	64.472
2.00	1.875	0.563	6.619	71.091
2.25	2.125	1.303	15.319	86.410
2.50	2.375	0.000	0.000	86.410
2.75	2.625	1.151	13.532	99.941
3.00	2.875	0.000	0.000	99.941
3.25	3.125	0.000	0.000	99.941
3.50	3.375	0.000	0.000	99.941
3.75	3.625	0.001	0.012	99.953
4.00	3.875	0.000	0.000	99.953
5.00	4.500	0.004	0.047	100.000

Statistical Results			
Mean:	1.1977	phi	(0.436 mm)
Standard Dev:	1.1430	phi-units	(0.4528 mm)
Skewness:	-0.6993	dimensionless	
Kurtosis:	2.9644	dimensionless	
5th Moment:	-5.3092	dimensionless	
6th Moment:	16.2184	dimensionless	
RARD *	0.9543	dimensionless	
Median	1.2030	phi	(0.4344 mm)

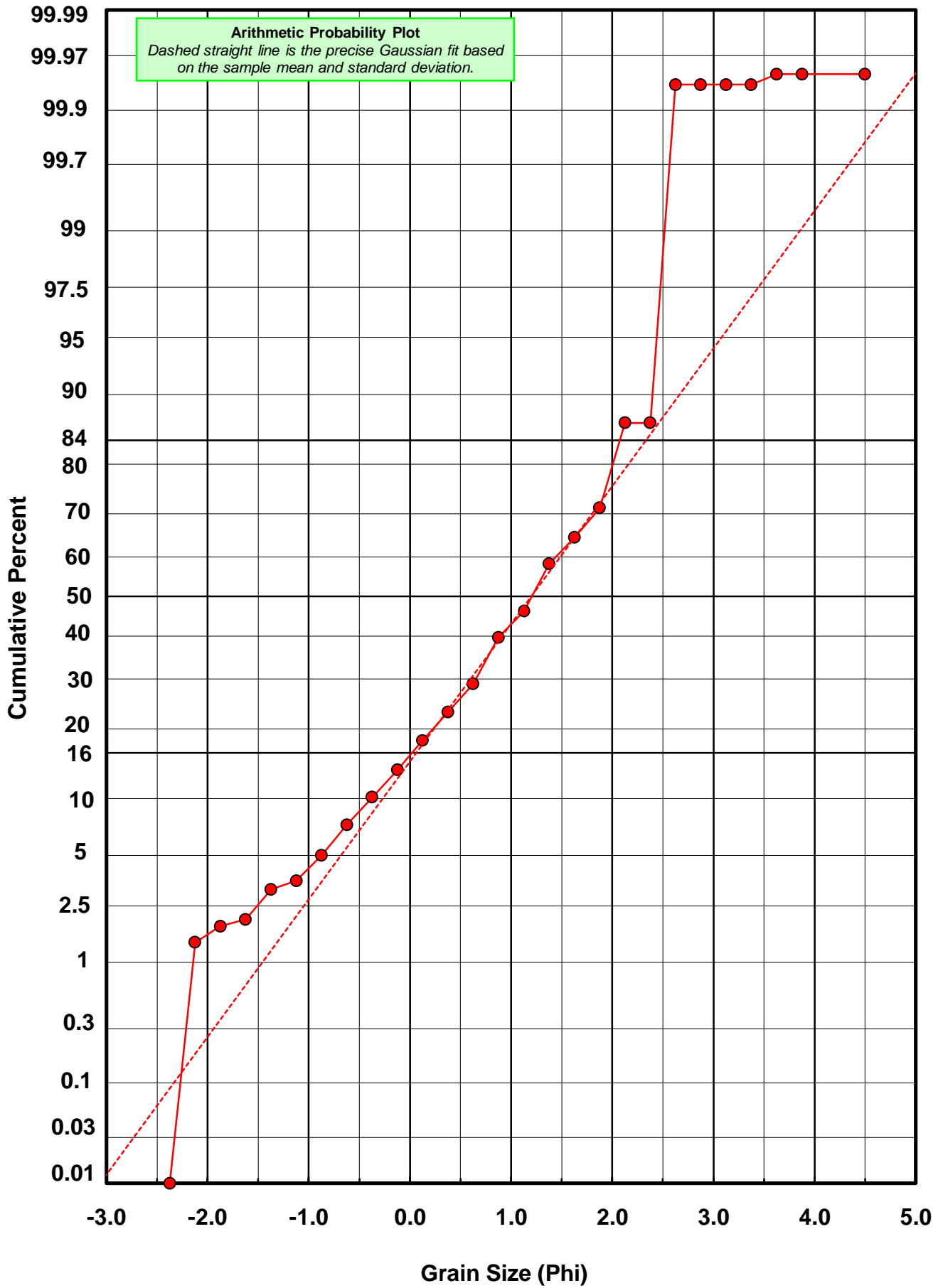
* RARD = reciprocal absolute relative dispersion (see below)

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-32-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-32-BB

Total Digested Mass: 54.541 grams

% Silica: 87.1 %

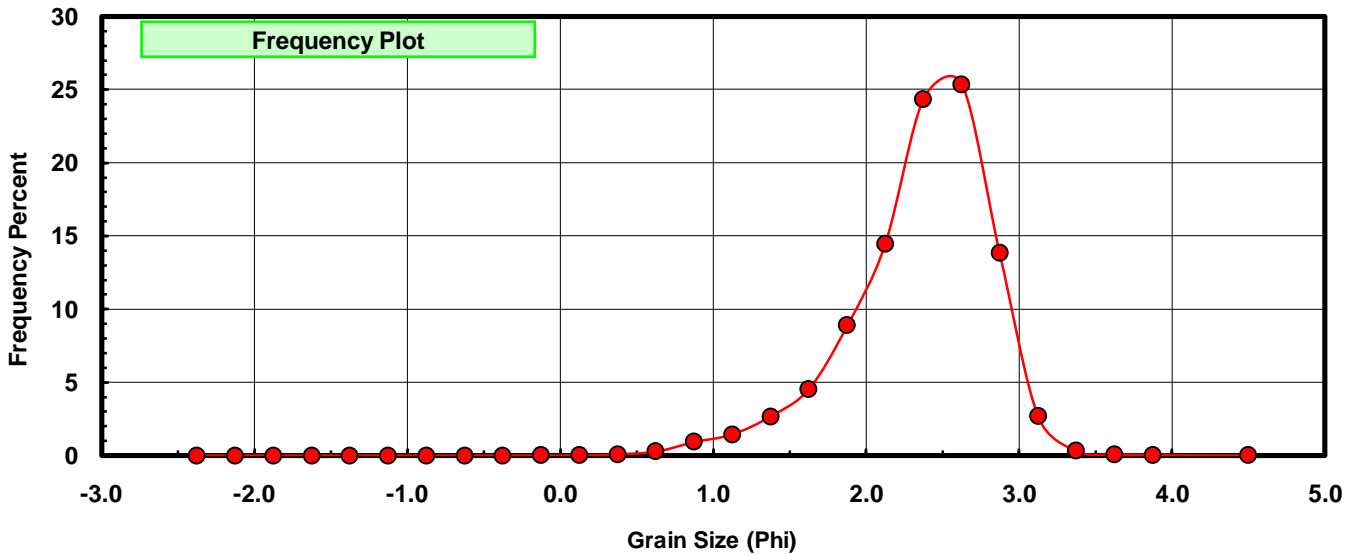
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.011	0.020	0.020
0.25	0.125	0.013	0.024	0.044
0.50	0.375	0.049	0.090	0.134
0.75	0.625	0.153	0.281	0.414
1.00	0.875	0.515	0.944	1.359
1.25	1.125	0.783	1.436	2.794
1.50	1.375	1.454	2.666	5.460
1.75	1.625	2.474	4.536	9.996
2.00	1.875	4.844	8.881	18.878
2.25	2.125	7.882	14.452	33.329
2.50	2.375	13.270	24.330	57.659
2.75	2.625	13.827	25.352	83.011
3.00	2.875	7.544	13.832	96.843
3.25	3.125	1.469	2.693	99.536
3.50	3.375	0.182	0.334	99.870
3.75	3.625	0.045	0.083	99.952
4.00	3.875	0.018	0.033	99.985
5.00	4.500	0.008	0.015	100.000

Statistical Results			
Mean:	2.3518	phi	(0.1959 mm)
Standard Dev:	0.4656	phi-units	(0.7242 mm)
Skewness:	-0.9312	dimensionless	
Kurtosis:	4.4131	dimensionless	
5th Moment:	-9.9776	dimensionless	
6th Moment:	41.6004	dimensionless	
RARD *	0.1980	dimensionless	
Median	2.2963	phi	(0.2036 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-32-BB

