

Onshore Grab Sample

Sample: PB-27
Sample Taken By: D. Phelps
Sample Collected On: 1/7/09
Splits? N/A

County: Palm Beach
Latitude: 26° 35' 25.2"
Longitude: 80° 02' 14.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 63.179 grams
Total Fines in Sample 0.184 grams
Total Percent Fines 0.29 %

Dry Sieving Summary

Total Sample Weight 62.880 grams
Total Digested Weight 27.839 grams
Total Carbonate Weight 35.041 grams
Total Silica % 44.27 %
Total Carbonate % 55.73 %
Carbonate/Silica Ratio 1.259

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PB-27

Total Sample Mass: 62.880 grams

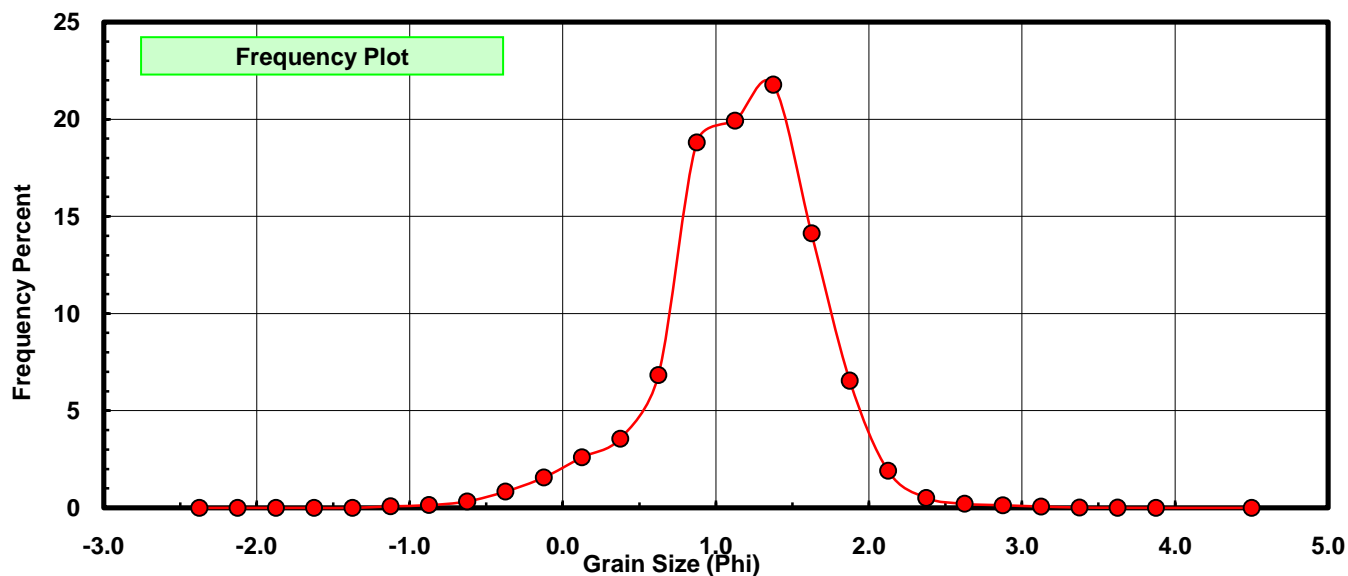
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.050	0.080	0.080
-0.75	-0.875	0.088	0.140	0.219
-0.50	-0.625	0.208	0.331	0.550
-0.25	-0.375	0.528	0.840	1.390
0.00	-0.125	0.979	1.557	2.947
0.25	0.125	1.635	2.600	5.547
0.50	0.375	2.241	3.564	9.111
0.75	0.625	4.294	6.829	15.940
1.00	0.875	11.829	18.812	34.752
1.25	1.125	12.526	19.920	54.672
1.50	1.375	13.695	21.780	76.452
1.75	1.625	8.886	14.132	90.584
2.00	1.875	4.116	6.546	97.129
2.25	2.125	1.202	1.912	99.041
2.50	2.375	0.324	0.515	99.556
2.75	2.625	0.133	0.212	99.768
3.00	2.875	0.085	0.135	99.903
3.25	3.125	0.044	0.070	99.973
3.50	3.375	0.012	0.019	99.992
3.75	3.625	0.005	0.008	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	1.1560	phi	(0.4488 mm)
Standard Dev:	0.5169	phi-units	(0.6989 mm)
Skewness:	-0.5330	dimensionless	
Kurtosis:	4.3930	dimensionless	
5th Moment:	-5.6643	dimensionless	
6th Moment:	38.0534	dimensionless	
RARD *	0.4472	dimensionless	
Median	1.0664	phi	(0.4775 mm)

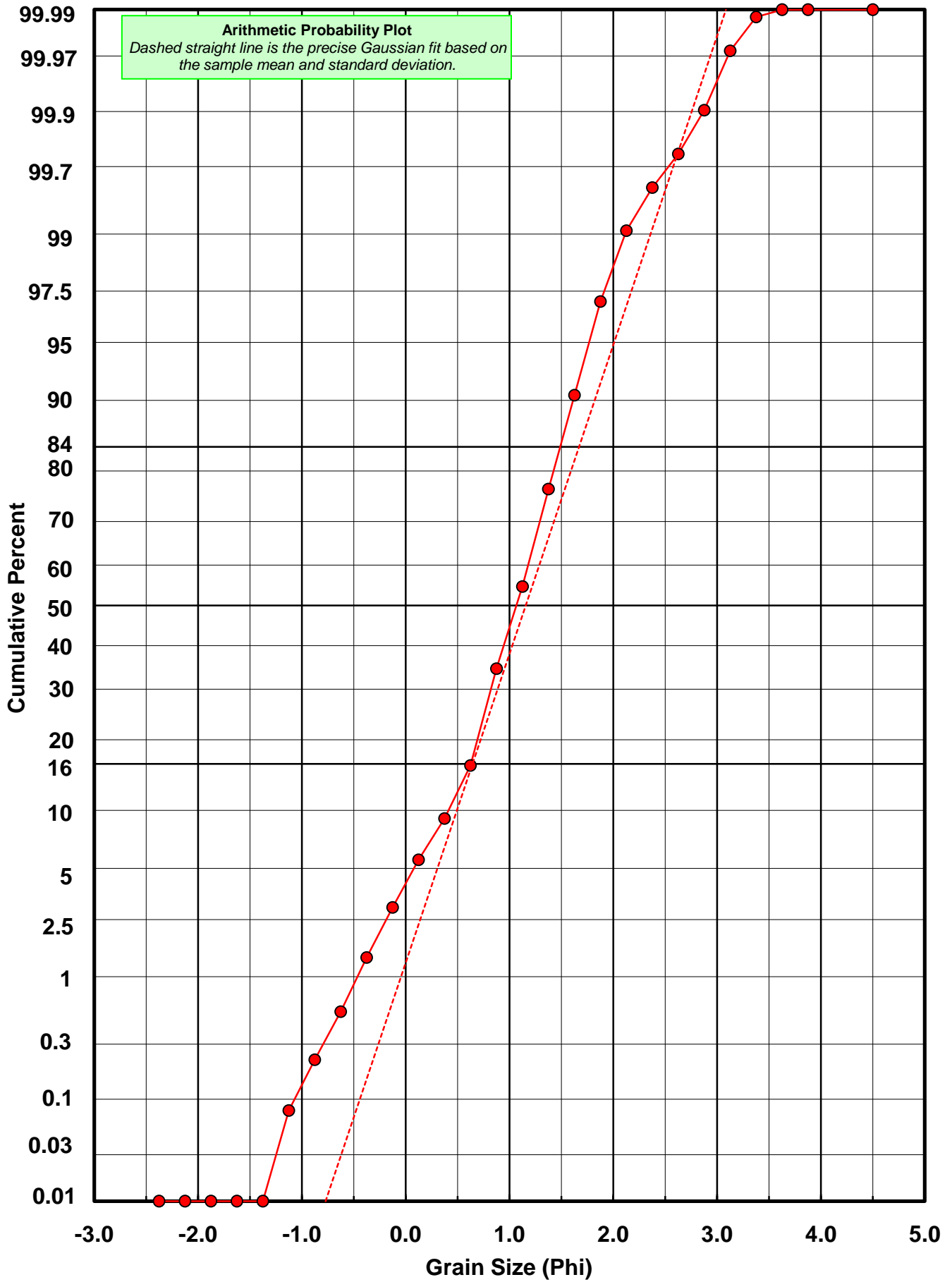
* RARD = reciprocal absolute relative dispersion (see below)

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)



PB-27



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PB-27

Total Carbonate Mass: 35.081 grams

% Carbonate: 55.7 %

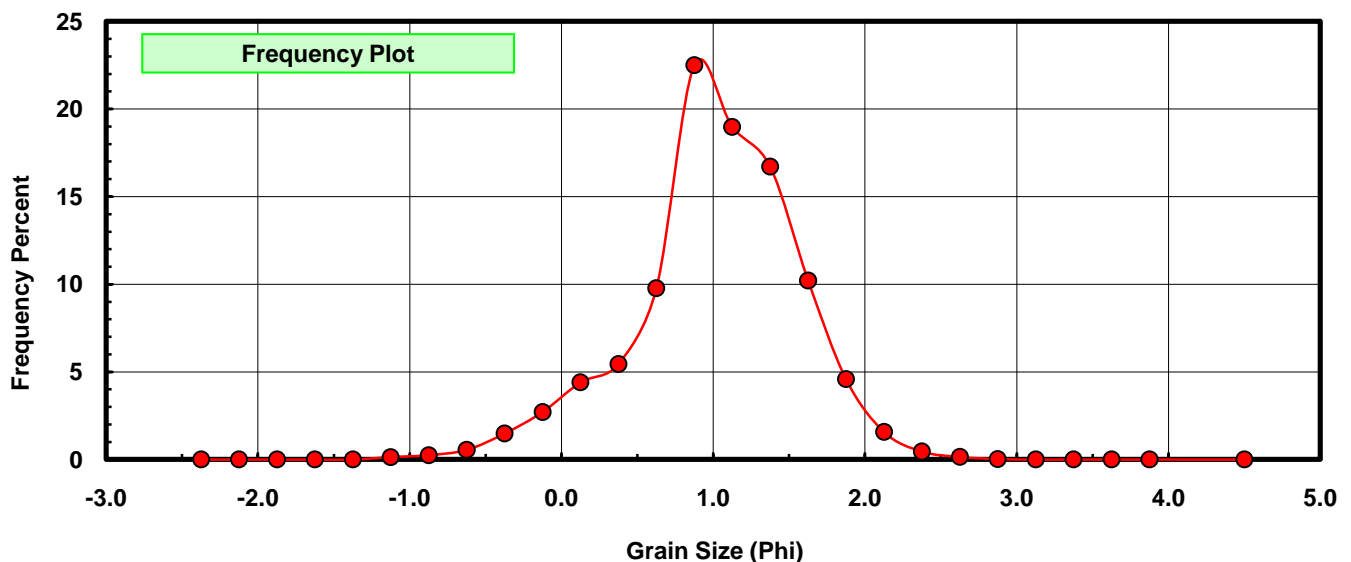
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.050	0.143	0.143
-0.75	-0.875	0.088	0.251	0.393
-0.50	-0.625	0.194	0.553	0.946
-0.25	-0.375	0.522	1.488	2.434
0.00	-0.125	0.952	2.714	5.148
0.25	0.125	1.546	4.407	9.555
0.50	0.375	1.914	5.456	15.011
0.75	0.625	3.429	9.775	24.785
1.00	0.875	7.896	22.508	47.293
1.25	1.125	6.661	18.987	66.281
1.50	1.375	5.863	16.713	82.994
1.75	1.625	3.584	10.216	93.210
2.00	1.875	1.608	4.584	97.794
2.25	2.125	0.552	1.574	99.367
2.50	2.375	0.160	0.456	99.823
2.75	2.625	0.052	0.148	99.971
3.00	2.875	0.010	0.029	100.000
3.25	3.125	0.000	0.000	100.000
3.50	3.375	0.000	0.000	100.000
3.75	3.625	0.000	0.000	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.0121	phi	(0.4958 mm)
Standard Dev:	0.5552	phi-units	(0.6806 mm)
Skewness:	-0.5009	dimensionless	
Kurtosis:	3.6449	dimensionless	
5th Moment:	-4.7766	dimensionless	
6th Moment:	23.4678	dimensionless	
RARD *	0.5485	dimensionless	
Median	0.9106	phi	(0.532 mm)

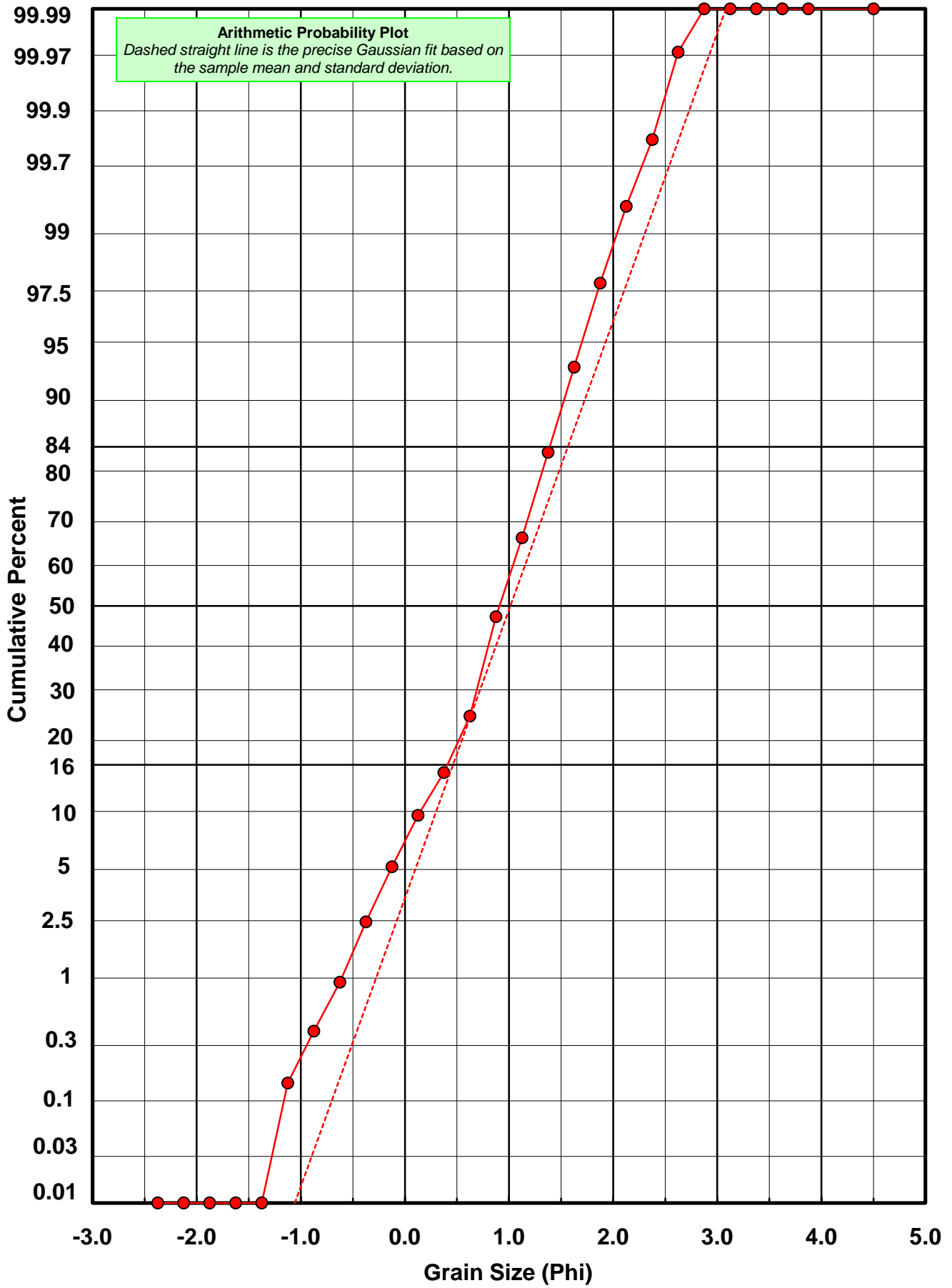
* RARD = reciprocal absolute relative dispersion (see below)

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)



PB-27



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PB-27

Total Digested Mass: 27.839 grams

% Silica: 44.3 %

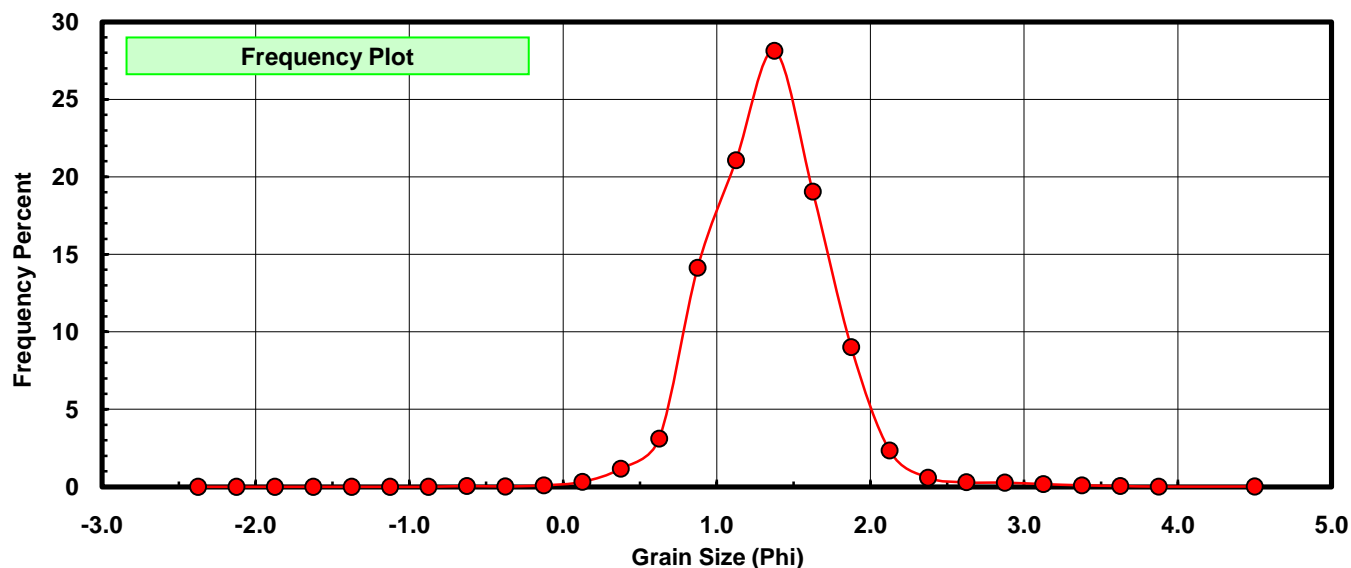
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.014	0.050	0.050
-0.25	-0.375	0.006	0.022	0.072
0.00	-0.125	0.027	0.097	0.169
0.25	0.125	0.089	0.320	0.489
0.50	0.375	0.327	1.175	1.663
0.75	0.625	0.865	3.107	4.770
1.00	0.875	3.933	14.128	18.898
1.25	1.125	5.865	21.068	39.966
1.50	1.375	7.832	28.133	68.099
1.75	1.625	5.302	19.045	87.144
2.00	1.875	2.508	9.009	96.153
2.25	2.125	0.650	2.335	98.488
2.50	2.375	0.164	0.589	99.077
2.75	2.625	0.081	0.291	99.368
3.00	2.875	0.075	0.269	99.637
3.25	3.125	0.049	0.176	99.813
3.50	3.375	0.027	0.097	99.910
3.75	3.625	0.015	0.054	99.964
4.00	3.875	0.004	0.014	99.978
5.00	4.500	0.006	0.022	100.000

Statistical Results			
Mean:	1.3408	phi	(0.3948 mm)
Standard Dev:	0.4143	phi-units	(0.7504 mm)
Skewness:	0.4875	dimensionless	
Kurtosis:	5.9809	dimensionless	
5th Moment:	15.4087	dimensionless	
6th Moment:	120.4685	dimensionless	
RARD *	0.3090	dimensionless	
Median	1.2142	phi	(0.431 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)



PB-27

