

Onshore Grab Sample

Sample: PI-43-BB
Sample Taken By: D. Phelps
Sample Collected On: 11/4/09
Splits? N/A

County: Pinellas
Latitude: 27° 40' 30.1"
Longitude: 82° 44' 35.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 52.799 grams
Total Fines in Sample 0.105 grams
Total Percent Fines 0.20 %

Dry Sieving Summary

Total Sample Weight 52.769 grams
Total Digested Weight 20.206 grams
Total Carbonate Weight 32.563 grams
Total Silica % 38.29 %
Total Carbonate % 61.71 %
Carbonate/Silica Ratio 1.612

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-43-BB

Total Sample Mass: 52.769 grams

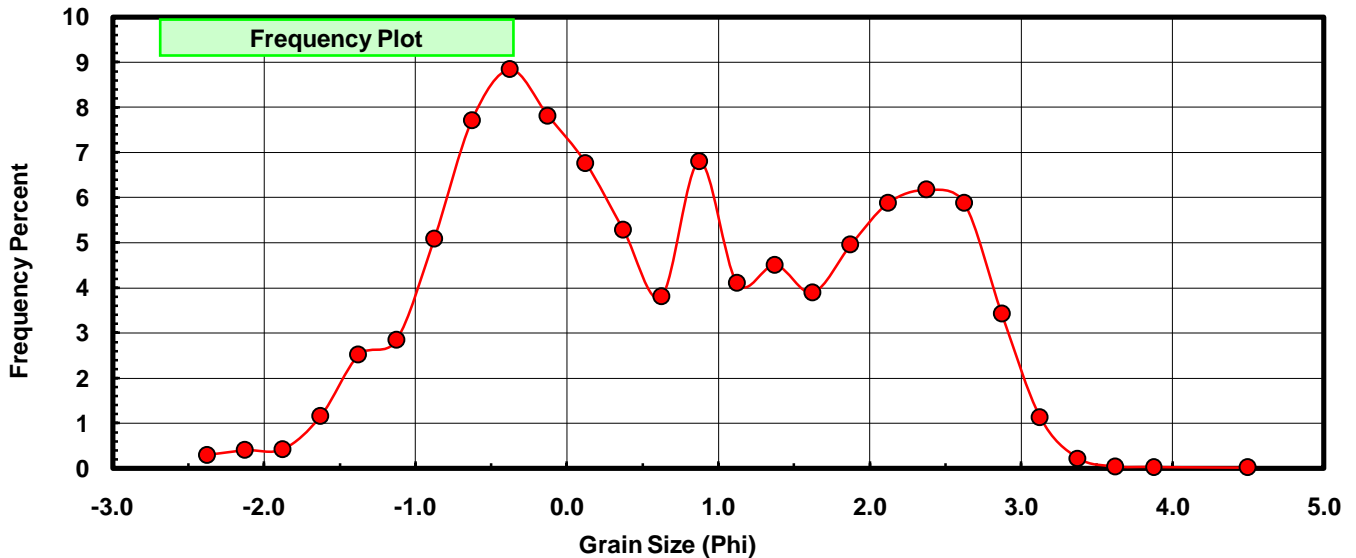
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.157	0.298	0.298
-2.00	-2.125	0.211	0.400	0.697
-1.75	-1.875	0.223	0.423	1.120
-1.50	-1.625	0.611	1.158	2.278
-1.25	-1.375	1.327	2.515	4.793
-1.00	-1.125	1.500	2.843	7.635
-0.75	-0.875	2.683	5.084	12.720
-0.50	-0.625	4.071	7.715	20.434
-0.25	-0.375	4.663	8.837	29.271
0.00	-0.125	4.121	7.810	37.080
0.25	0.125	3.570	6.765	43.846
0.50	0.375	2.788	5.283	49.129
0.75	0.625	2.007	3.803	52.933
1.00	0.875	3.588	6.799	59.732
1.25	1.125	2.168	4.108	63.841
1.50	1.375	2.377	4.505	68.345
1.75	1.625	2.056	3.896	72.241
2.00	1.875	2.616	4.957	77.199
2.25	2.125	3.103	5.880	83.079
2.50	2.375	3.256	6.170	89.249
2.75	2.625	3.105	5.884	95.134
3.00	2.875	1.807	3.424	98.558
3.25	3.125	0.597	1.131	99.689
3.50	3.375	0.120	0.227	99.917
3.75	3.625	0.021	0.040	99.956
4.00	3.875	0.015	0.028	99.985
5.00	4.50	0.008	0.015	100.000

Statistical Results			
Mean:	0.7022	phi	(0.6147 mm)
Standard Dev:	1.3141	phi-units	(0.4022 mm)
Skewness:	0.1095	dimensionless	
Kurtosis:	1.9039	dimensionless	
5th Moment:	0.1842	dimensionless	
6th Moment:	4.9038	dimensionless	
RARD *	1.8716	dimensionless	
Median	0.4322	phi	(0.7411 mm)

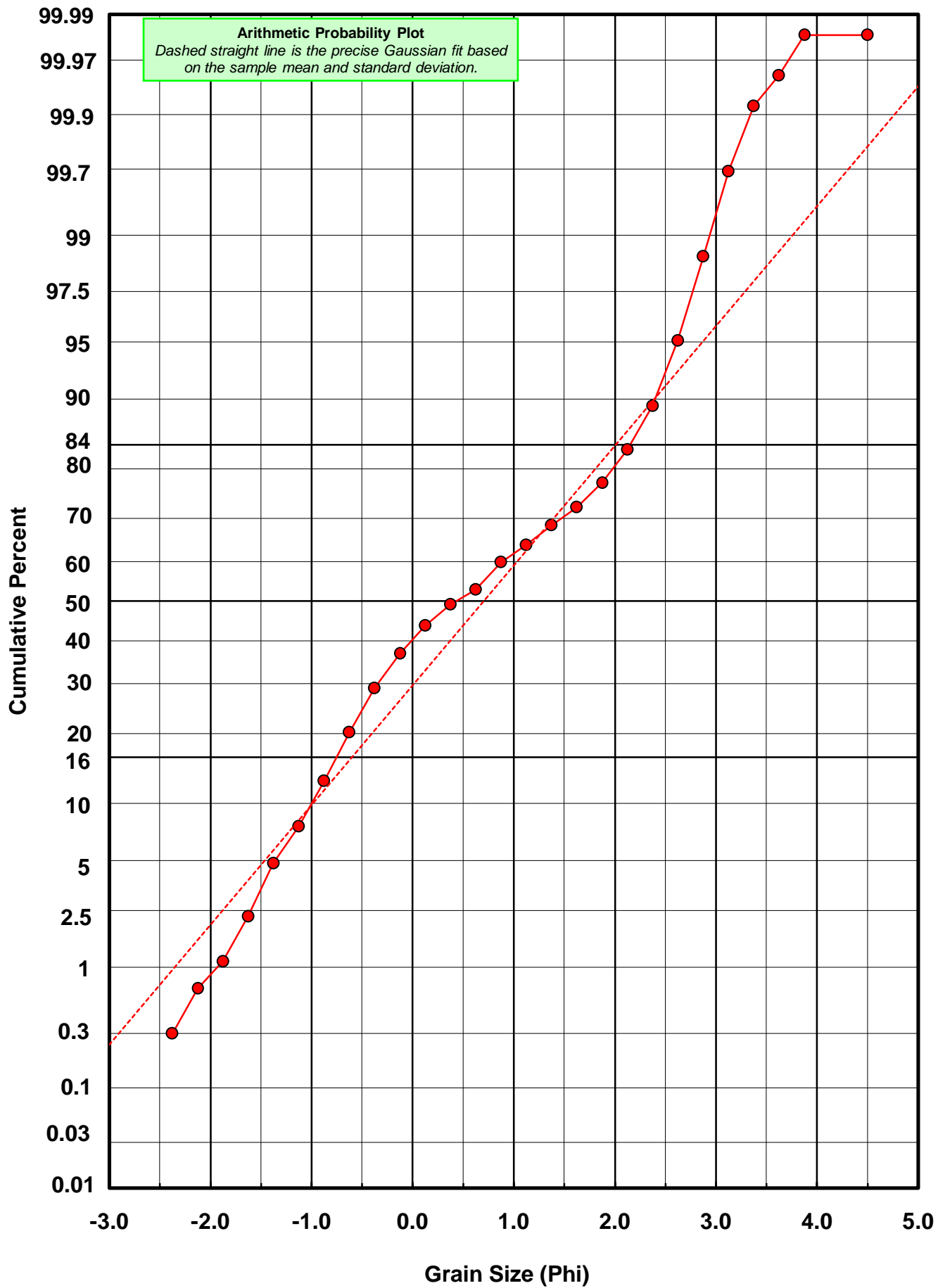
* RARD = reciprocal absolute relative dispersion (see below)

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-43-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-43-BB

Total Carbonate Mass: 32.871 grams

% Carbonate: 61.7 %

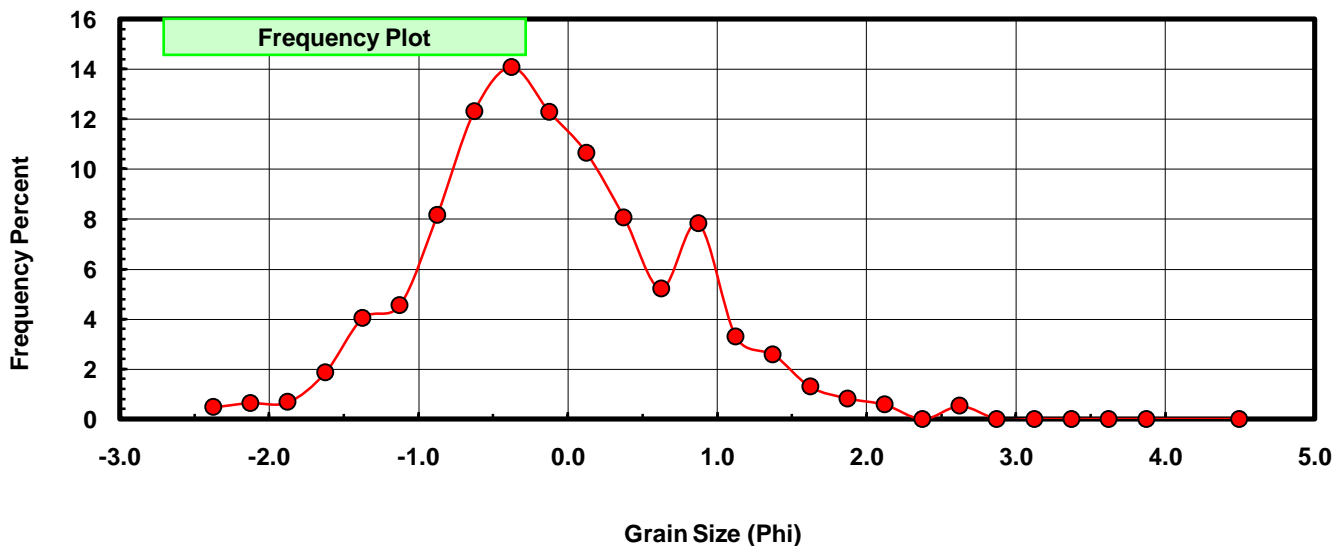
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.157	0.478	0.478
-2.00	-2.125	0.211	0.642	1.120
-1.75	-1.875	0.223	0.678	1.798
-1.50	-1.625	0.611	1.859	3.657
-1.25	-1.375	1.327	4.037	7.694
-1.00	-1.125	1.500	4.563	12.257
-0.75	-0.875	2.683	8.162	20.419
-0.50	-0.625	4.048	12.315	32.734
-0.25	-0.375	4.626	14.073	46.807
0.00	-0.125	4.038	12.284	59.092
0.25	0.125	3.502	10.654	69.745
0.50	0.375	2.653	8.071	77.816
0.75	0.625	1.714	5.214	83.031
1.00	0.875	2.573	7.828	90.858
1.25	1.125	1.085	3.301	94.159
1.50	1.375	0.852	2.592	96.751
1.75	1.625	0.428	1.302	98.053
2.00	1.875	0.273	0.831	98.884
2.25	2.125	0.190	0.578	99.462
2.50	2.375	0.000	0.000	99.462
2.75	2.625	0.176	0.535	99.997
3.00	2.875	0.000	0.000	99.997
3.25	3.125	0.000	0.000	99.997
3.50	3.375	0.000	0.000	99.997
3.75	3.625	0.000	0.000	99.997
4.00	3.875	0.000	0.000	99.997
5.00	4.500	0.001	0.003	100.000

Statistical Results			
Mean:	-0.1106	phi	(1.0797 mm)
Standard Dev:	0.8462	phi-units	(0.5562 mm)
Skewness:	0.2878	dimensionless	
Kurtosis:	3.1898	dimensionless	
5th Moment:	2.5440	dimensionless	
6th Moment:	17.7946	dimensionless	
RARD *	7.6491	dimensionless	
Median	-0.3100	phi	(1.2397 mm)

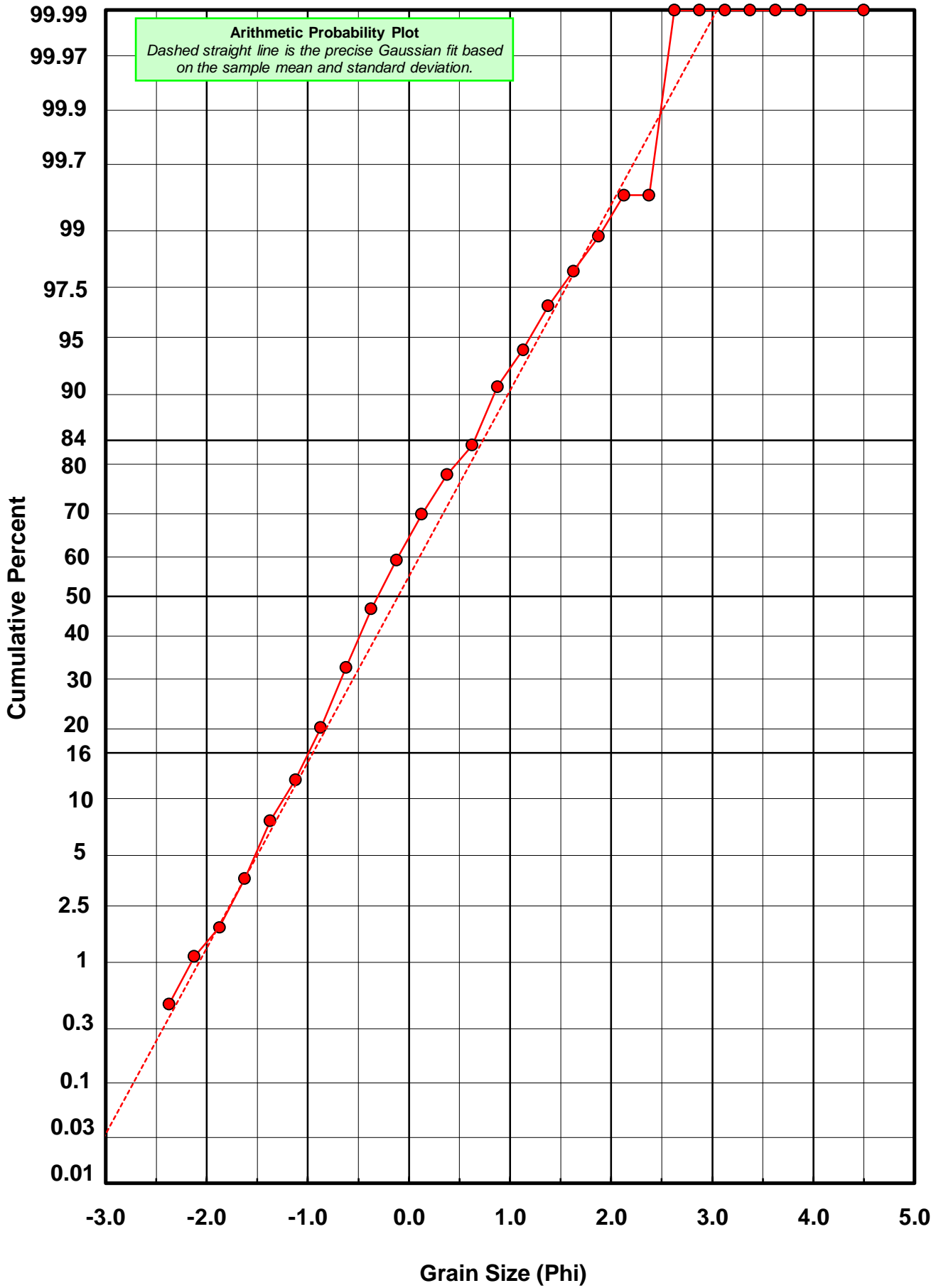
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Statistical Explanation	
Calculations based on the Method of Moments	
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{-(\phi)}$	

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PI-43-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-43-BB

Total Digested Mass: 20.206 grams

% Silica: 38.3 %

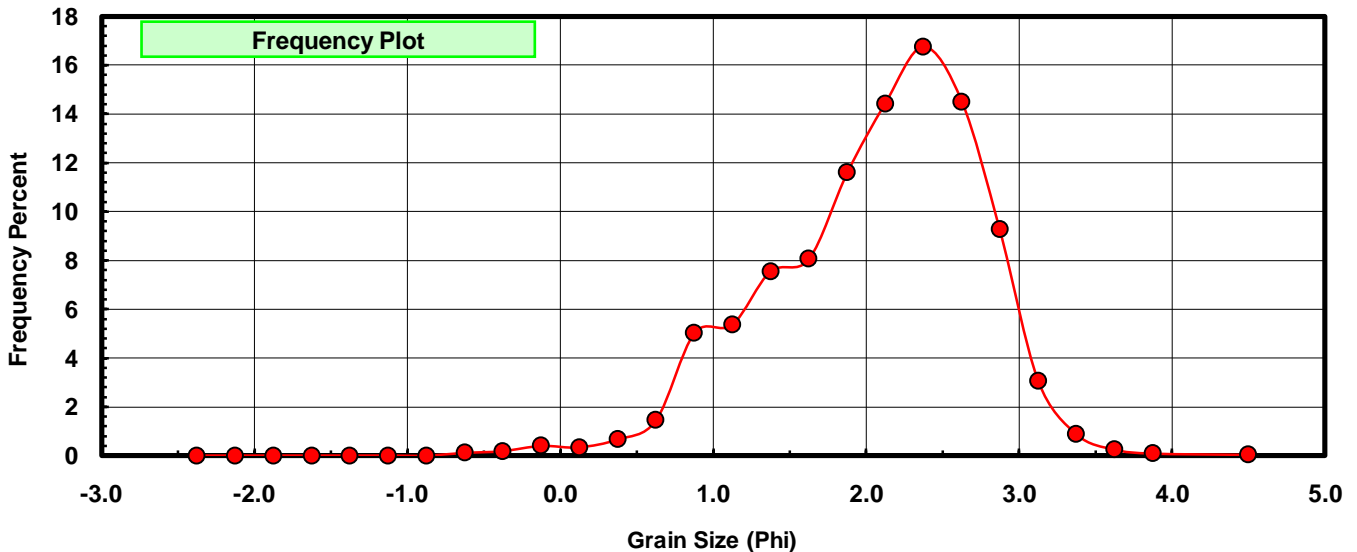
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.023	0.114	0.114
-0.25	-0.375	0.037	0.183	0.297
0.00	-0.125	0.083	0.411	0.708
0.25	0.125	0.068	0.337	1.044
0.50	0.375	0.135	0.668	1.712
0.75	0.625	0.293	1.450	3.162
1.00	0.875	1.015	5.023	8.186
1.25	1.125	1.083	5.360	13.545
1.50	1.375	1.525	7.547	21.093
1.75	1.625	1.628	8.057	29.150
2.00	1.875	2.343	11.596	40.745
2.25	2.125	2.913	14.417	55.162
2.50	2.375	3.385	16.752	71.914
2.75	2.625	2.929	14.496	86.410
3.00	2.875	1.873	9.270	95.680
3.25	3.125	0.620	3.068	98.748
3.50	3.375	0.178	0.881	99.629
3.75	3.625	0.050	0.247	99.876
4.00	3.875	0.018	0.089	99.965
5.00	4.500	0.007	0.035	100.000

Statistical Results			
Mean:	2.0573	phi	(0.2403 mm)
Standard Dev:	0.6944	phi-units	(0.618 mm)
Skewness:	-0.5884	dimensionless	
Kurtosis:	3.1553	dimensionless	
5th Moment:	-4.9512	dimensionless	
6th Moment:	20.1413	dimensionless	
RARD *	0.3375	dimensionless	
Median	2.0355	phi	(0.2439 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{-(\phi)}$	

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