

Onshore Grab Sample

Sample: PI-29-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/8/09
Splits? N/A

County: Pinellas
Latitude: 27° 48' 40.1"
Longitude: 82° 49' 0.5"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 54.825 grams
Total Fines in Sample 0.071 grams
Total Percent Fines 0.13 %

Dry Sieving Summary

Total Sample Weight 54.718 grams
Total Digested Weight 34.447 grams
Total Carbonate Weight 20.271 grams
Total Silica % 62.95 %
Total Carbonate % 37.05 %
Carbonate/Silica Ratio 0.588

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-29-BB

Total Sample Mass: 54.718 grams

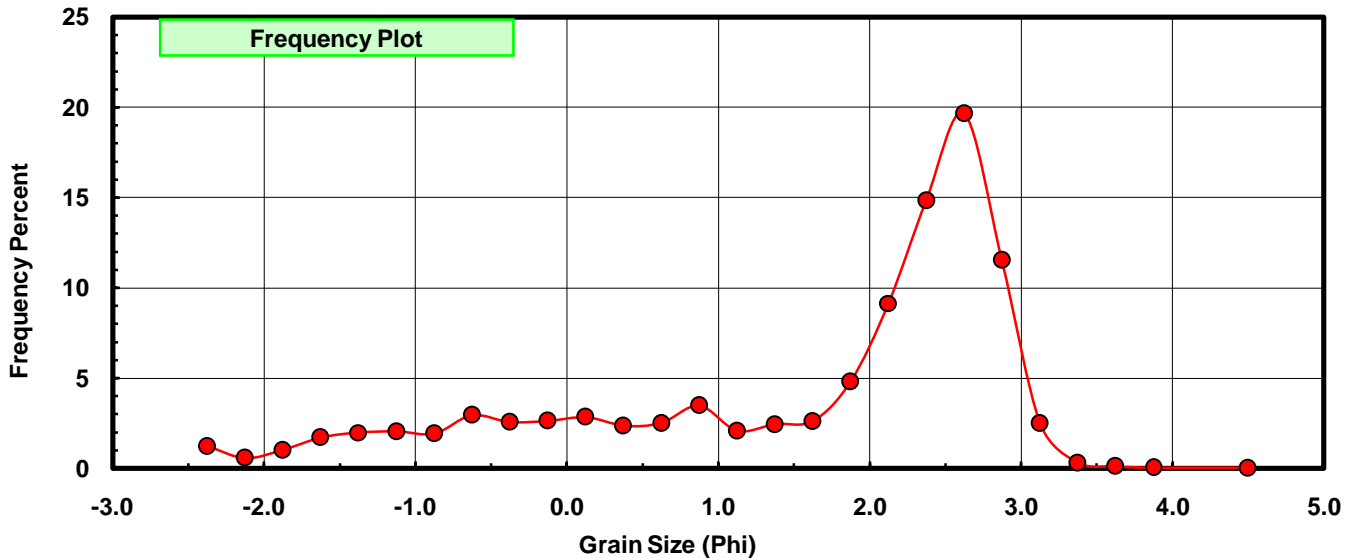
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.675	1.234	1.234
-2.00	-2.125	0.319	0.583	1.817
-1.75	-1.875	0.563	1.029	2.845
-1.50	-1.625	0.939	1.716	4.562
-1.25	-1.375	1.087	1.987	6.548
-1.00	-1.125	1.121	2.049	8.597
-0.75	-0.875	1.050	1.919	10.516
-0.50	-0.625	1.612	2.946	13.462
-0.25	-0.375	1.402	2.562	16.024
0.00	-0.125	1.439	2.630	18.654
0.25	0.125	1.558	2.847	21.501
0.50	0.375	1.296	2.369	23.870
0.75	0.625	1.374	2.511	26.381
1.00	0.875	1.906	3.483	29.864
1.25	1.125	1.138	2.080	31.944
1.50	1.375	1.339	2.447	34.391
1.75	1.625	1.433	2.619	37.010
2.00	1.875	2.633	4.812	41.822
2.25	2.125	5.006	9.149	50.970
2.50	2.375	8.129	14.856	65.827
2.75	2.625	10.753	19.652	85.478
3.00	2.875	6.314	11.539	97.017
3.25	3.125	1.366	2.496	99.514
3.50	3.375	0.171	0.313	99.826
3.75	3.625	0.060	0.110	99.936
4.00	3.875	0.023	0.042	99.978
5.00	4.50	0.012	0.022	100.000

Statistical Results			
Mean:	1.5511	phi	(0.3412 mm)
Standard Dev:	1.4555	phi-units	(0.3646 mm)
Skewness:	-1.0498	dimensionless	
Kurtosis:	2.8762	dimensionless	
5th Moment:	-5.6106	dimensionless	
6th Moment:	13.3730	dimensionless	
RARD *	0.9384	dimensionless	
Median	2.0985	phi	(0.2335 mm)

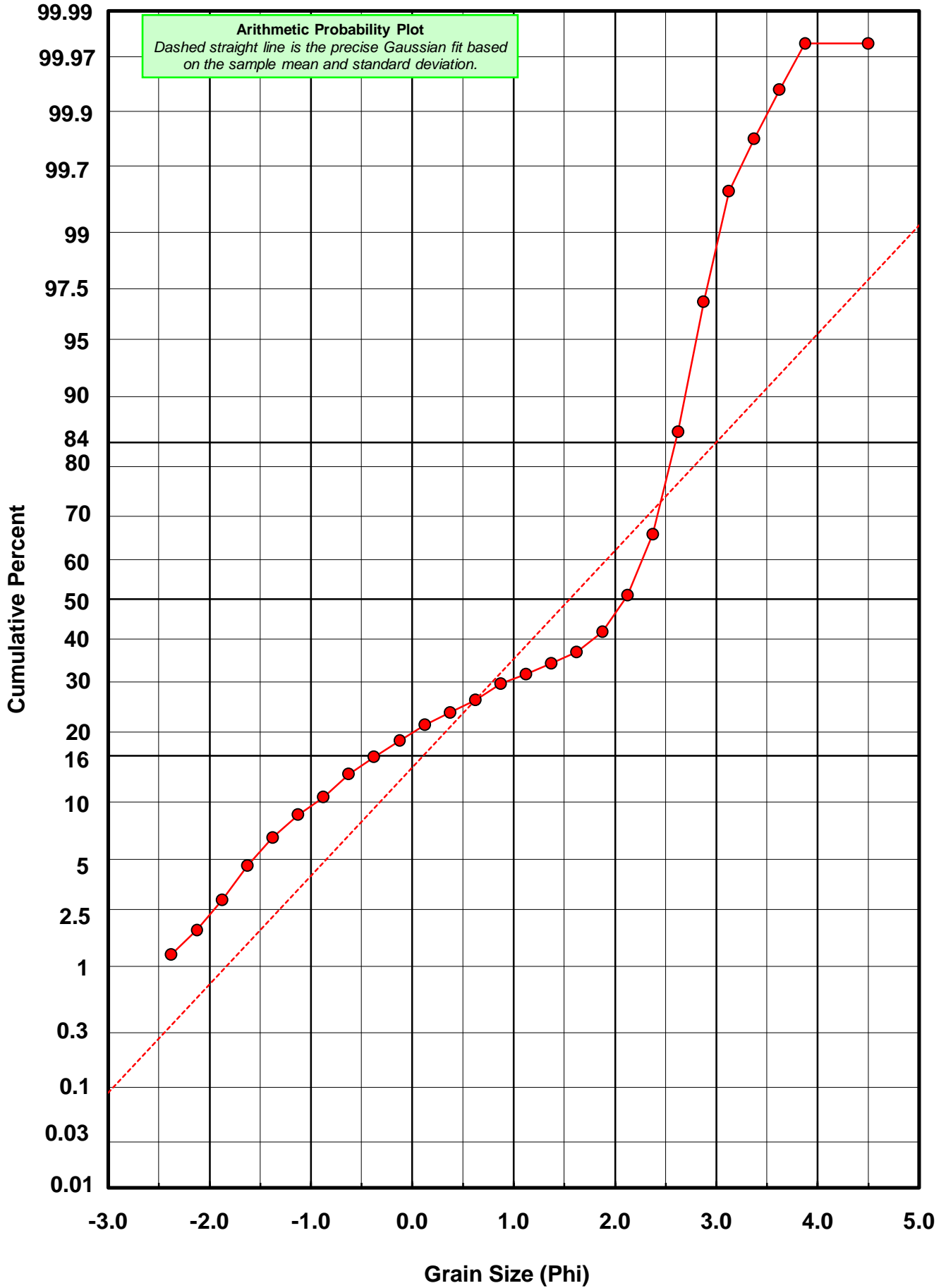
* RARD = reciprocal absolute relative dispersion (see below)

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-29-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-29-BB

Total Carbonate Mass: 20.663 grams

% Carbonate: 37.0 %

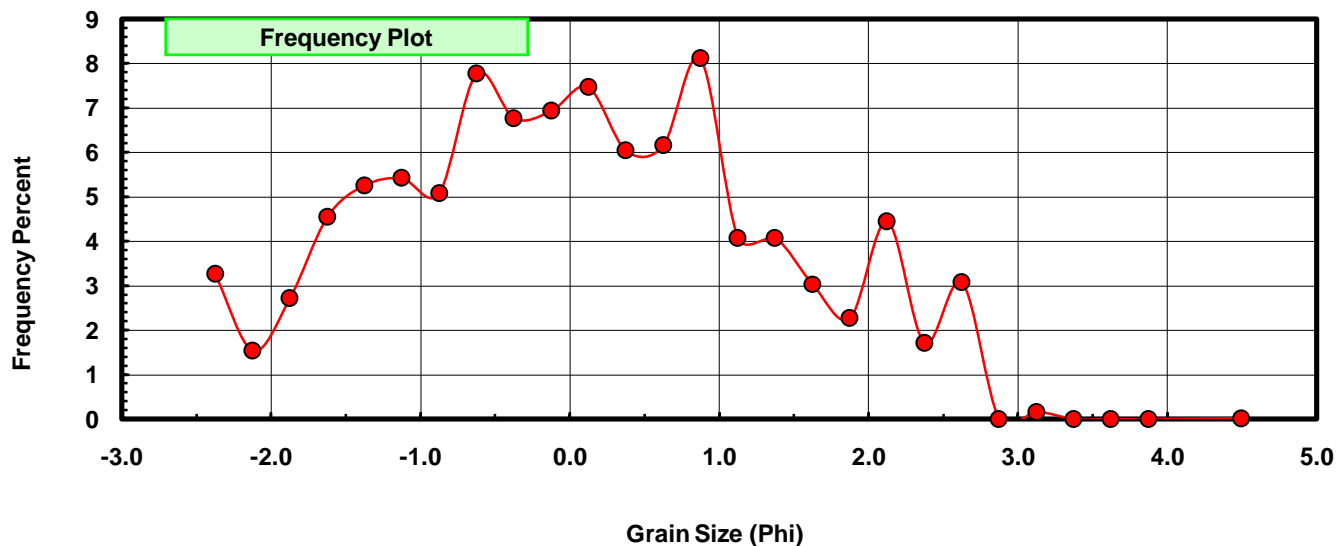
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.675	3.267	3.267
-2.00	-2.125	0.319	1.544	4.811
-1.75	-1.875	0.563	2.725	7.535
-1.50	-1.625	0.939	4.544	12.080
-1.25	-1.375	1.087	5.261	17.340
-1.00	-1.125	1.121	5.425	22.765
-0.75	-0.875	1.050	5.082	27.847
-0.50	-0.625	1.605	7.768	35.614
-0.25	-0.375	1.399	6.771	42.385
0.00	-0.125	1.433	6.935	49.320
0.25	0.125	1.543	7.467	56.787
0.50	0.375	1.248	6.040	62.827
0.75	0.625	1.273	6.161	68.988
1.00	0.875	1.677	8.116	77.104
1.25	1.125	0.842	4.075	81.179
1.50	1.375	0.843	4.080	85.259
1.75	1.625	0.629	3.044	88.303
2.00	1.875	0.470	2.275	90.577
2.25	2.125	0.920	4.452	95.030
2.50	2.375	0.354	1.713	96.743
2.75	2.625	0.636	3.078	99.821
3.00	2.875	0.000	0.000	99.821
3.25	3.125	0.033	0.160	99.981
3.50	3.375	0.000	0.000	99.981
3.75	3.625	0.000	0.000	99.981
4.00	3.875	0.000	0.000	99.981
5.00	4.500	0.004	0.019	100.000

Statistical Results			
Mean:	0.0618	phi	(0.9581 mm)
Standard Dev:	1.3080	phi-units	(0.4039 mm)
Skewness:	0.1241	dimensionless	
Kurtosis:	2.2013	dimensionless	
5th Moment:	0.6877	dimensionless	
6th Moment:	6.4631	dimensionless	
RARD *	21.1796	dimensionless	
Median	-0.1022	phi	(1.0734 mm)

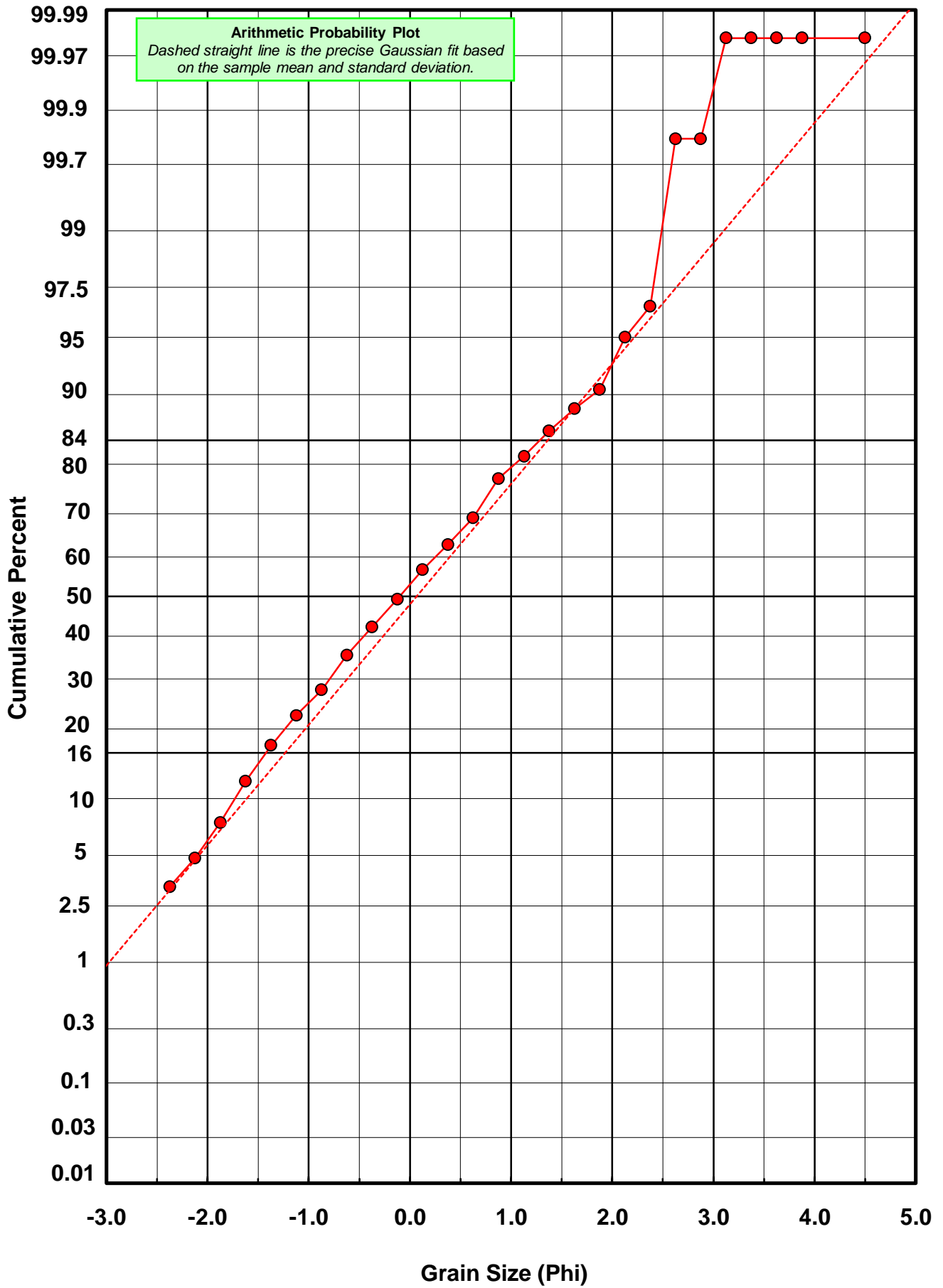
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Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{-(\phi)}$	

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PI-29-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-29-BB

Total Digested Mass: 34.447 grams

% Silica: 63.0 %

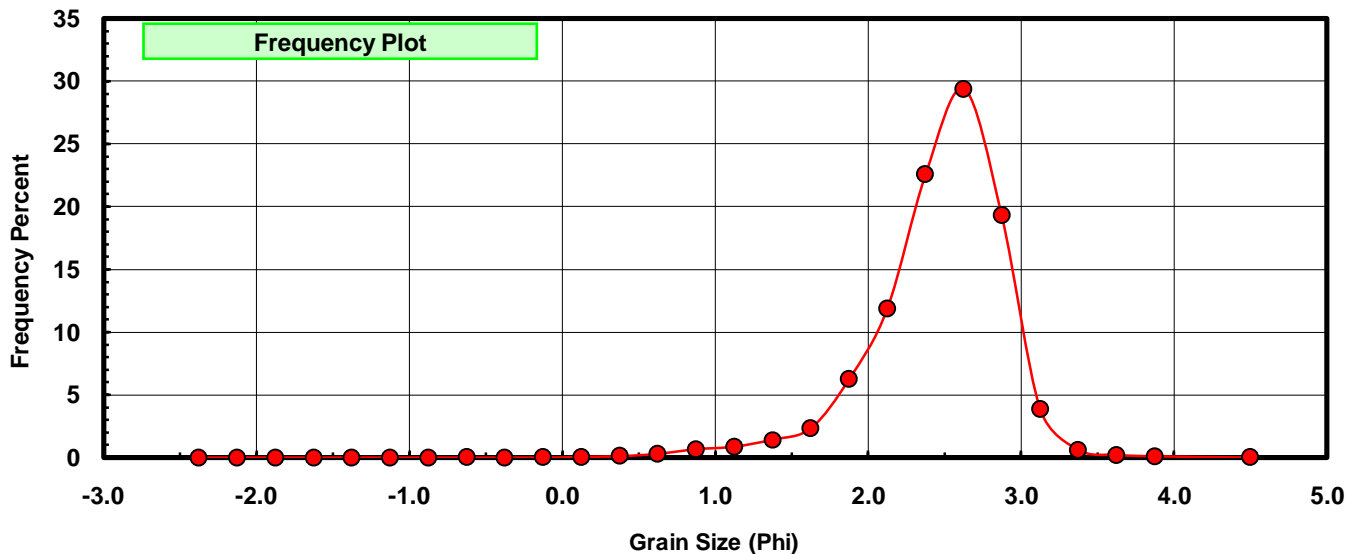
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.007	0.020	0.020
-0.25	-0.375	0.003	0.009	0.029
0.00	-0.125	0.006	0.017	0.046
0.25	0.125	0.015	0.044	0.090
0.50	0.375	0.048	0.139	0.229
0.75	0.625	0.101	0.293	0.523
1.00	0.875	0.229	0.665	1.187
1.25	1.125	0.296	0.859	2.047
1.50	1.375	0.496	1.440	3.487
1.75	1.625	0.804	2.334	5.821
2.00	1.875	2.163	6.279	12.100
2.25	2.125	4.086	11.862	23.961
2.50	2.375	7.775	22.571	46.532
2.75	2.625	10.117	29.370	75.902
3.00	2.875	6.645	19.291	95.193
3.25	3.125	1.333	3.870	99.062
3.50	3.375	0.208	0.604	99.666
3.75	3.625	0.073	0.212	99.878
4.00	3.875	0.034	0.099	99.977
5.00	4.500	0.008	0.023	100.000

Statistical Results			
Mean:	2.4607	phi	(0.1817 mm)
Standard Dev:	0.4458	phi-units	(0.7342 mm)
Skewness:	-1.2146	dimensionless	
Kurtosis:	6.3529	dimensionless	
5th Moment:	-20.4129	dimensionless	
6th Moment:	104.5300	dimensionless	
RARD *	0.1812	dimensionless	
Median	2.4045	phi	(0.1889 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 $mm = 2^{-(\phi)}$	

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