

Onshore Grab Sample

Sample: PI-39-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/1/09
Splits? N/A

County: Pinellas
Latitude: 27° 43' 29.4"
Longitude: 82° 44' 36.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	57.369 grams
Total Fines in Sample	0.187 grams
Total Percent Fines	0.32 %

Dry Sieving Summary

Total Sample Weight	57.181 grams
Total Digested Weight	26.685 grams
Total Carbonate Weight	30.496 grams
Total Silica %	46.67 %
Total Carbonate %	53.33 %
Carbonate/Silica Ratio	1.143

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-39-BB

Total Sample Mass: 57.181 grams

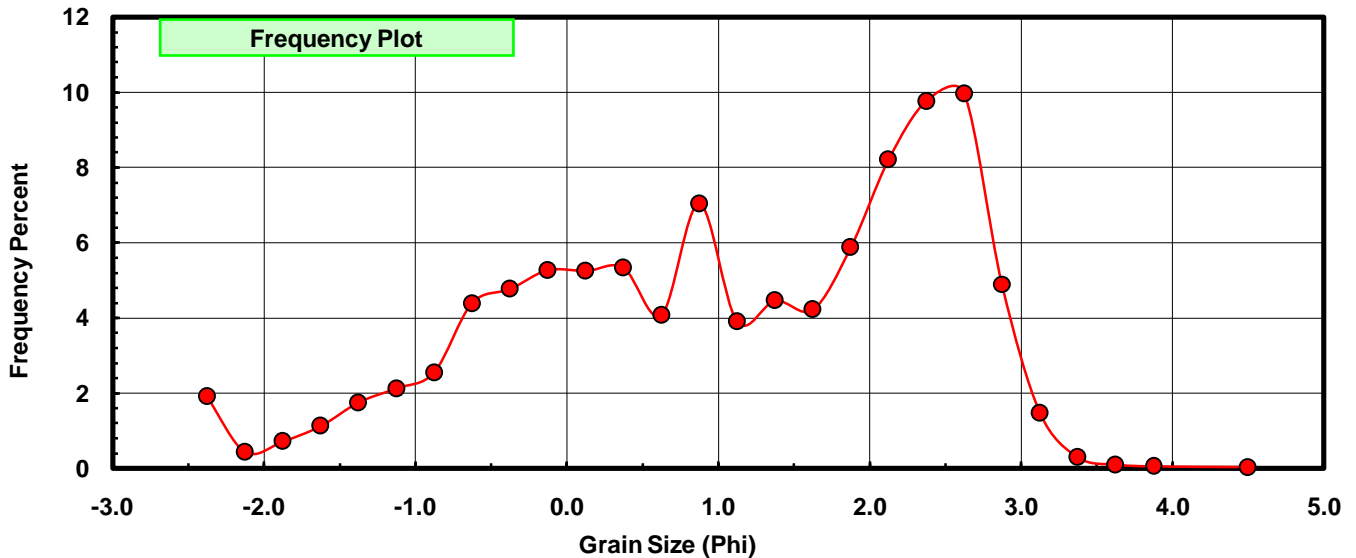
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.092	1.910	1.910
-2.00	-2.125	0.247	0.432	2.342
-1.75	-1.875	0.413	0.722	3.064
-1.50	-1.625	0.646	1.130	4.194
-1.25	-1.375	1.001	1.751	5.944
-1.00	-1.125	1.216	2.127	8.071
-0.75	-0.875	1.458	2.550	10.621
-0.50	-0.625	2.510	4.390	15.010
-0.25	-0.375	2.727	4.769	19.779
0.00	-0.125	3.013	5.269	25.049
0.25	0.125	3.001	5.248	30.297
0.50	0.375	3.048	5.330	35.627
0.75	0.625	2.329	4.073	39.700
1.00	0.875	4.026	7.041	46.741
1.25	1.125	2.235	3.909	50.650
1.50	1.375	2.551	4.461	55.111
1.75	1.625	2.415	4.223	59.334
2.00	1.875	3.360	5.876	65.210
2.25	2.125	4.693	8.207	73.418
2.50	2.375	5.582	9.762	83.180
2.75	2.625	5.701	9.970	93.150
3.00	2.875	2.803	4.902	98.052
3.25	3.125	0.839	1.467	99.519
3.50	3.375	0.170	0.297	99.816
3.75	3.625	0.056	0.098	99.914
4.00	3.875	0.030	0.052	99.967
5.00	4.50	0.019	0.033	100.000

Statistical Results			
Mean:	1.0610	phi	(0.4793 mm)
Standard Dev:	1.3940	phi-units	(0.3805 mm)
Skewness:	-0.4648	dimensionless	
Kurtosis:	2.2736	dimensionless	
5th Moment:	-2.8062	dimensionless	
6th Moment:	8.3608	dimensionless	
RARD *	1.3139	dimensionless	
Median	1.0834	phi	(0.4719 mm)

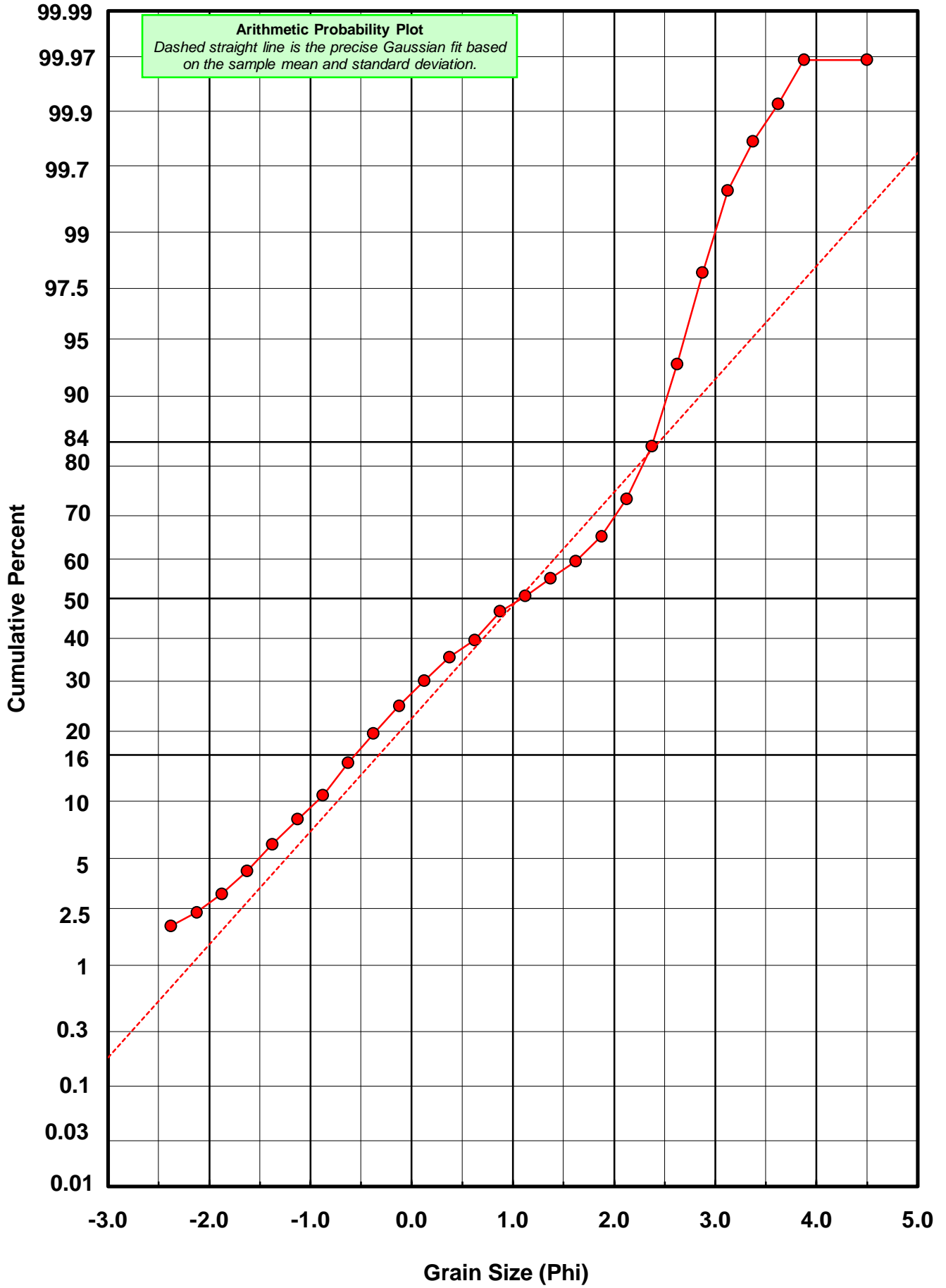
* RARD = reciprocal absolute relative dispersion (see below)

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-39-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-39-BB

Total Carbonate Mass: 30.604 grams

% Carbonate: 53.3 %

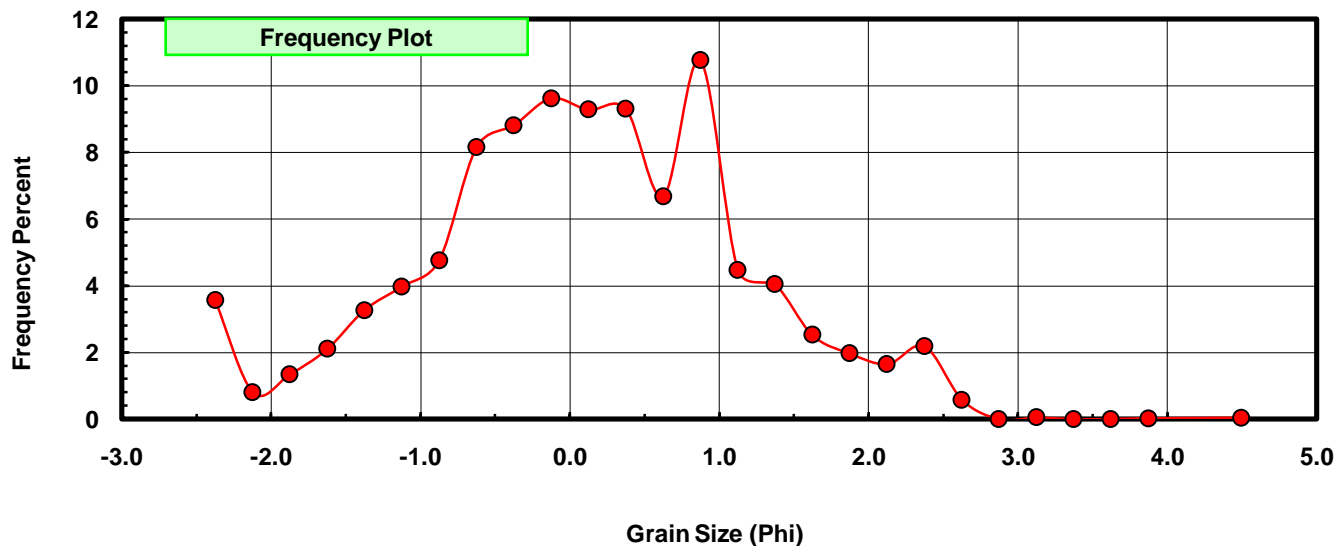
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.092	3.568	3.568
-2.00	-2.125	0.247	0.807	4.375
-1.75	-1.875	0.413	1.349	5.725
-1.50	-1.625	0.646	2.111	7.836
-1.25	-1.375	1.001	3.271	11.106
-1.00	-1.125	1.216	3.973	15.080
-0.75	-0.875	1.458	4.764	19.844
-0.50	-0.625	2.495	8.153	27.996
-0.25	-0.375	2.698	8.816	36.812
0.00	-0.125	2.944	9.620	46.432
0.25	0.125	2.841	9.283	55.715
0.50	0.375	2.847	9.303	65.018
0.75	0.625	2.044	6.679	71.697
1.00	0.875	3.295	10.767	82.463
1.25	1.125	1.367	4.467	86.930
1.50	1.375	1.238	4.045	90.975
1.75	1.625	0.773	2.526	93.501
2.00	1.875	0.602	1.967	95.468
2.25	2.125	0.505	1.650	97.118
2.50	2.375	0.670	2.189	99.307
2.75	2.625	0.177	0.578	99.886
3.00	2.875	0.000	0.000	99.886
3.25	3.125	0.016	0.052	99.938
3.50	3.375	0.000	0.000	99.938
3.75	3.625	0.000	0.000	99.938
4.00	3.875	0.007	0.023	99.961
5.00	4.500	0.012	0.039	100.000

Statistical Results			
Mean:	0.0839	phi	(0.9435 mm)
Standard Dev:	1.1019	phi-units	(0.4659 mm)
Skewness:	-0.0833	dimensionless	
Kurtosis:	2.8777	dimensionless	
5th Moment:	-0.2102	dimensionless	
6th Moment:	12.5789	dimensionless	
RARD *	13.1379	dimensionless	
Median	-0.0289	phi	(1.0202 mm)

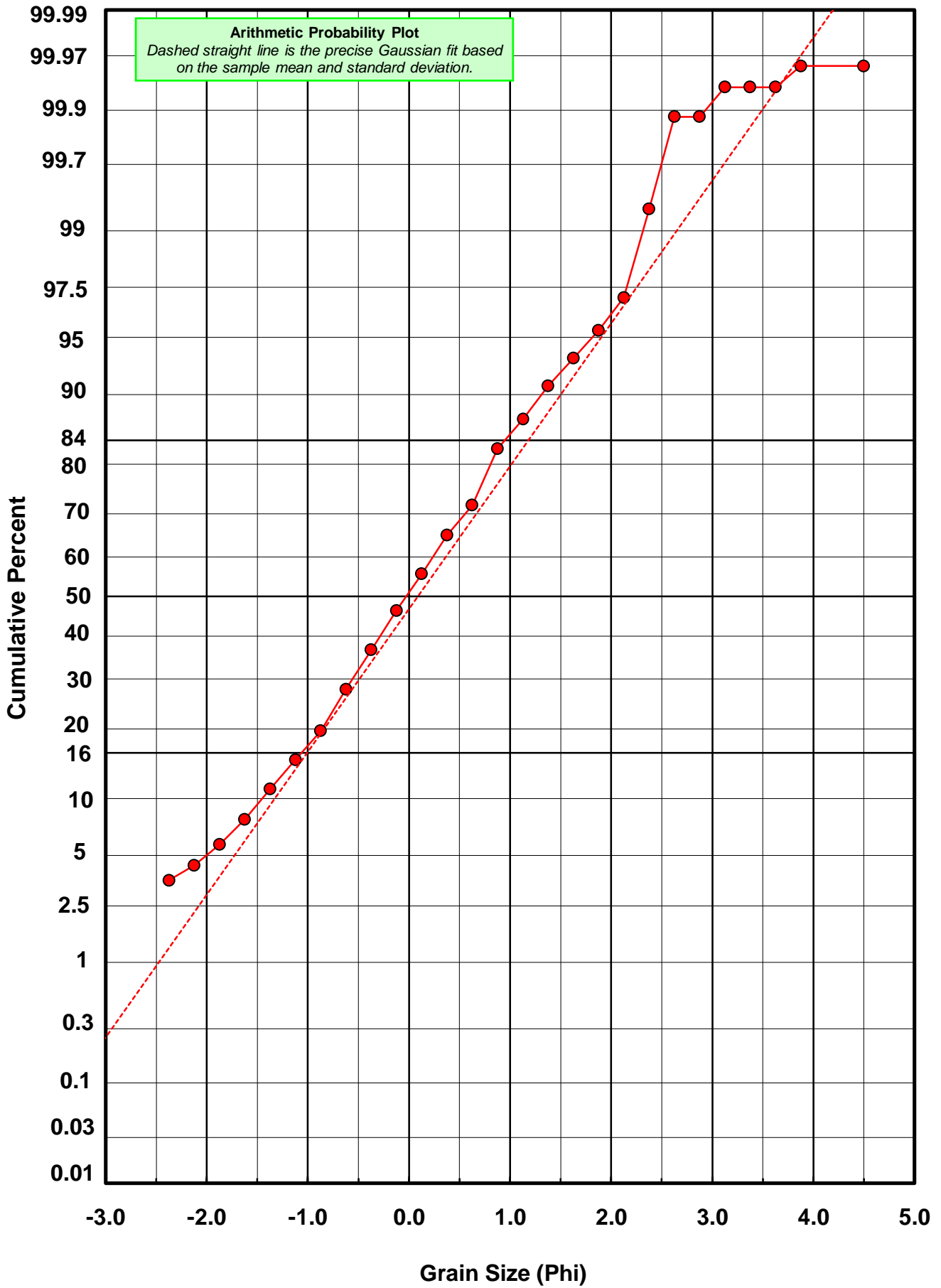
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Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
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Millimeter data calculated by $mm = 2^{-(\phi)}$	

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PI-39-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-39-BB

Total Digested Mass: 26.685 grams

% Silica: 46.7 %

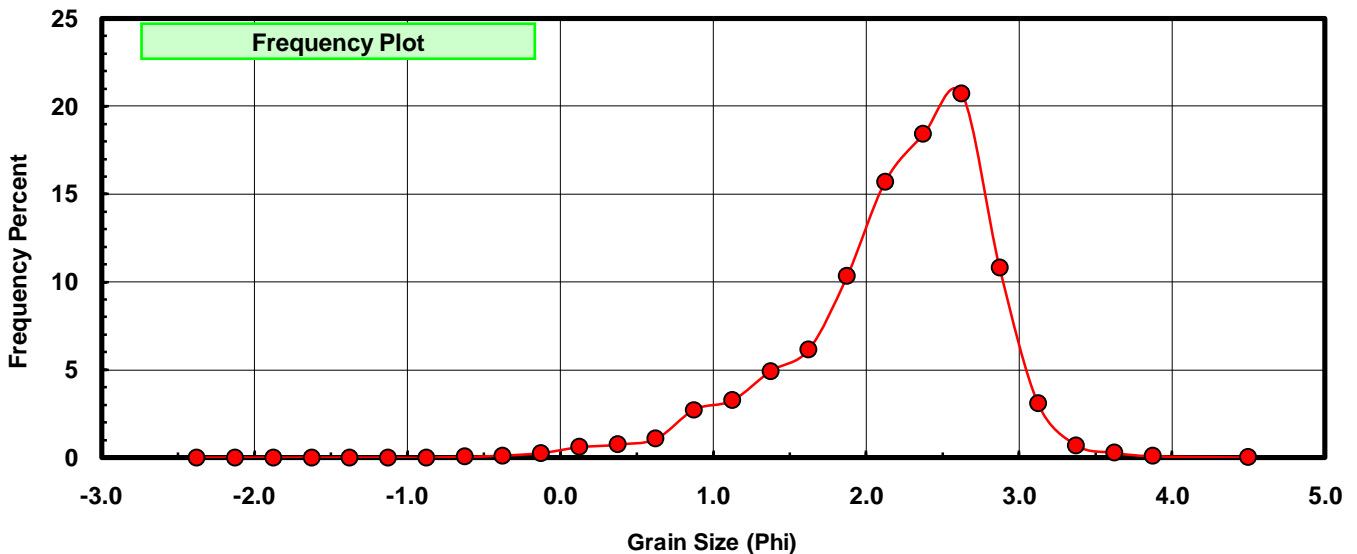
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.015	0.056	0.056
-0.25	-0.375	0.029	0.109	0.165
0.00	-0.125	0.069	0.259	0.423
0.25	0.125	0.160	0.600	1.023
0.50	0.375	0.201	0.753	1.776
0.75	0.625	0.285	1.068	2.844
1.00	0.875	0.731	2.739	5.584
1.25	1.125	0.868	3.253	8.836
1.50	1.375	1.313	4.920	13.757
1.75	1.625	1.642	6.153	19.910
2.00	1.875	2.758	10.335	30.245
2.25	2.125	4.188	15.694	45.940
2.50	2.375	4.912	18.407	64.347
2.75	2.625	5.524	20.701	85.048
3.00	2.875	2.882	10.800	95.848
3.25	3.125	0.823	3.084	98.932
3.50	3.375	0.183	0.686	99.618
3.75	3.625	0.072	0.270	99.888
4.00	3.875	0.023	0.086	99.974
5.00	4.500	0.007	0.026	100.000

Statistical Results			
Mean:	2.1896	phi	(0.2192 mm)
Standard Dev:	0.6379	phi-units	(0.6427 mm)
Skewness:	-0.9564	dimensionless	
Kurtosis:	4.1298	dimensionless	
5th Moment:	-9.1989	dimensionless	
6th Moment:	34.1864	dimensionless	
RARD *	0.2913	dimensionless	
Median	2.1801	phi	(0.2207 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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