

Onshore Grab Sample

Sample: PI-23-BB
Sample Taken By: D. Phelps
Sample Collected On: 10/8/09
Splits? N/A

County: Pinellas
Latitude: 27° 53' 13.1"
Longitude: 82° 51' 5.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	46.877 grams
Total Fines in Sample	0.098 grams
Total Percent Fines	0.21 %

Dry Sieving Summary

Total Sample Weight	46.766 grams
Total Digested Weight	20.341 grams
Total Carbonate Weight	26.425 grams
Total Silica %	43.50 %
Total Carbonate %	56.50 %
Carbonate/Silica Ratio	1.299

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-23-BB

Total Sample Mass: 46.766 grams

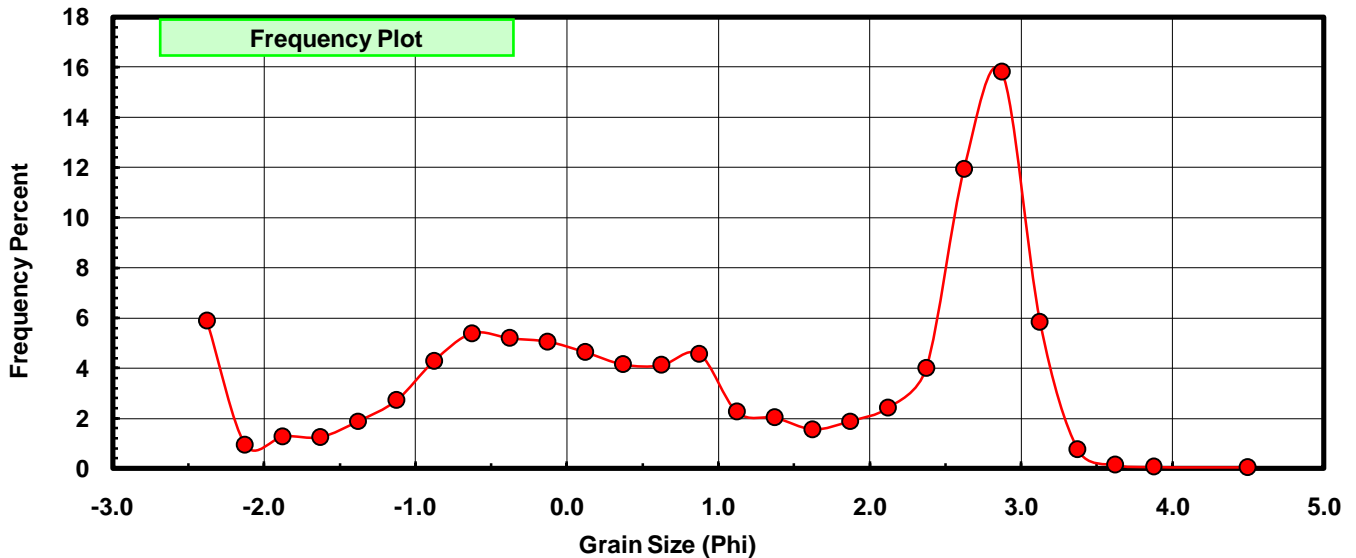
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	2.747	5.874	5.874
-2.00	-2.125	0.438	0.937	6.811
-1.75	-1.875	0.597	1.277	8.087
-1.50	-1.625	0.580	1.240	9.327
-1.25	-1.375	0.884	1.890	11.218
-1.00	-1.125	1.269	2.714	13.931
-0.75	-0.875	2.006	4.289	18.221
-0.50	-0.625	2.519	5.386	23.607
-0.25	-0.375	2.428	5.192	28.799
0.00	-0.125	2.360	5.046	33.845
0.25	0.125	2.167	4.634	38.479
0.50	0.375	1.940	4.148	42.627
0.75	0.625	1.923	4.112	46.739
1.00	0.875	2.135	4.565	51.304
1.25	1.125	1.052	2.249	53.554
1.50	1.375	0.944	2.019	55.572
1.75	1.625	0.727	1.555	57.127
2.00	1.875	0.884	1.890	59.017
2.25	2.125	1.133	2.423	61.440
2.50	2.375	1.869	3.996	65.436
2.75	2.625	5.586	11.945	77.381
3.00	2.875	7.395	15.813	93.194
3.25	3.125	2.724	5.825	99.019
3.50	3.375	0.351	0.751	99.769
3.75	3.625	0.062	0.133	99.902
4.00	3.875	0.025	0.053	99.955
5.00	4.50	0.021	0.045	100.000

Statistical Results			
Mean:	0.9746	phi	(0.5089 mm)
Standard Dev:	1.7564	phi-units	(0.296 mm)
Skewness:	-0.3193	dimensionless	
Kurtosis:	1.7963	dimensionless	
5th Moment:	-1.5983	dimensionless	
6th Moment:	4.5089	dimensionless	
RARD *	1.8022	dimensionless	
Median	0.8036	phi	(0.5729 mm)

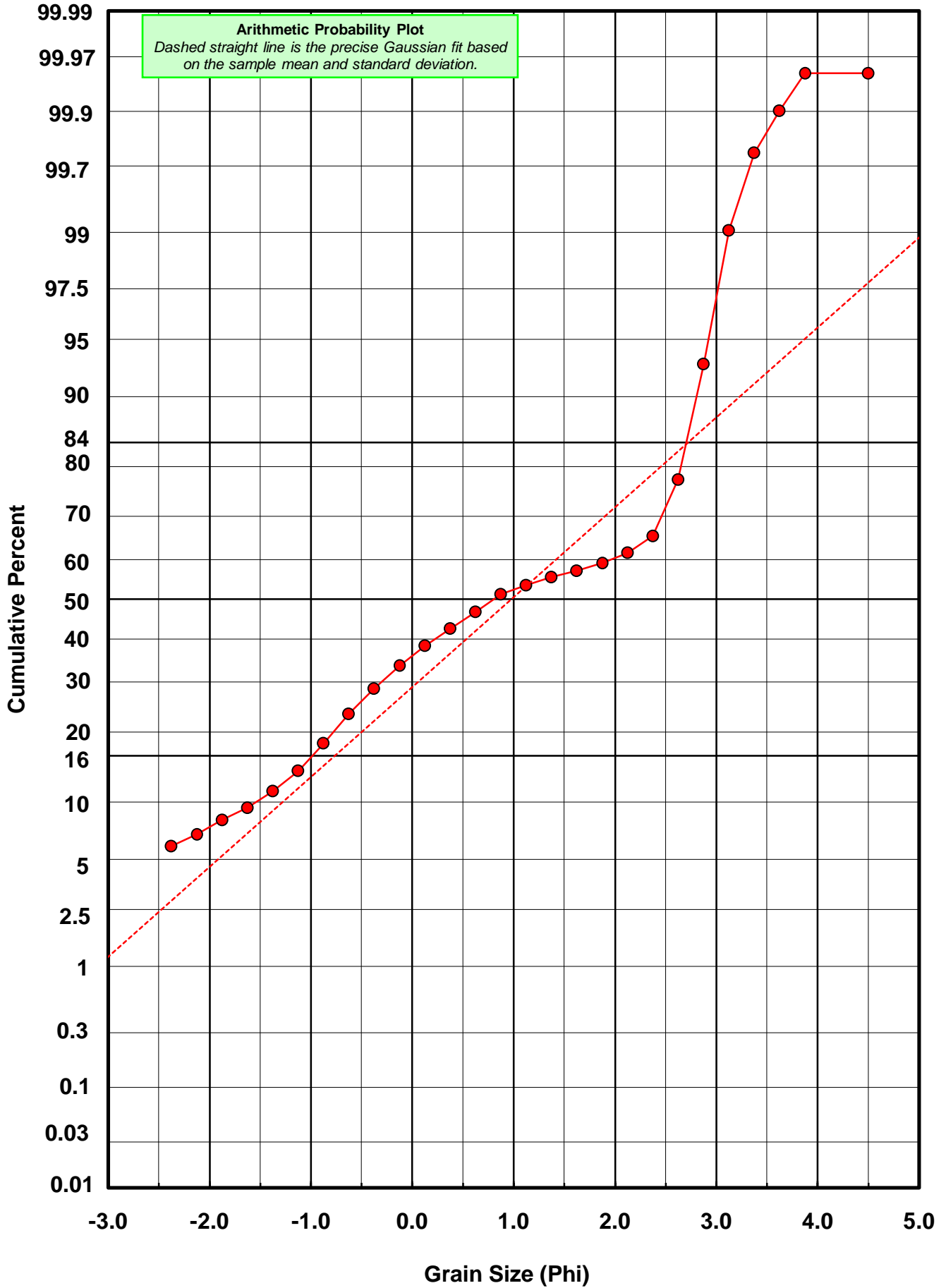
* RARD = reciprocal absolute relative dispersion (see below)

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-23-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-23-BB

Total Carbonate Mass: 26.725 grams

% Carbonate: 56.5 %

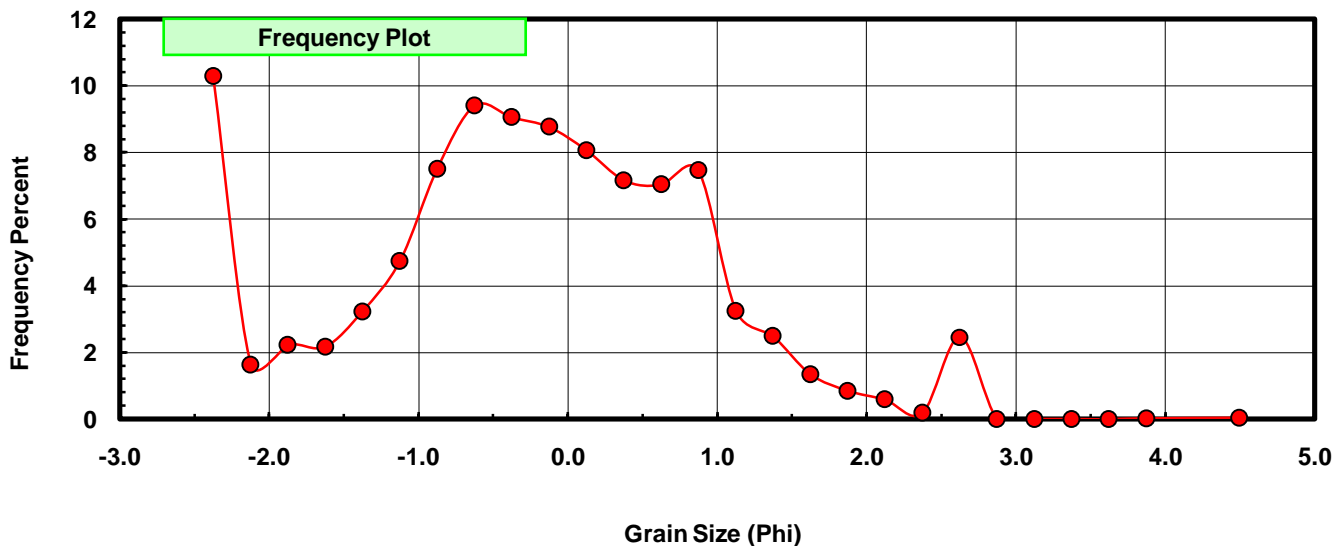
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	2.747	10.279	10.279
-2.00	-2.125	0.438	1.639	11.918
-1.75	-1.875	0.597	2.234	14.152
-1.50	-1.625	0.580	2.170	16.322
-1.25	-1.375	0.864	3.233	19.555
-1.00	-1.125	1.269	4.748	24.303
-0.75	-0.875	2.006	7.506	31.809
-0.50	-0.625	2.512	9.399	41.209
-0.25	-0.375	2.419	9.051	50.260
0.00	-0.125	2.344	8.771	59.031
0.25	0.125	2.156	8.067	67.098
0.50	0.375	1.914	7.162	74.260
0.75	0.625	1.880	7.035	81.295
1.00	0.875	1.994	7.461	88.756
1.25	1.125	0.869	3.252	92.007
1.50	1.375	0.665	2.488	94.496
1.75	1.625	0.360	1.347	95.843
2.00	1.875	0.227	0.849	96.692
2.25	2.125	0.158	0.591	97.283
2.50	2.375	0.049	0.183	97.467
2.75	2.625	0.659	2.466	99.933
3.00	2.875	0.000	0.000	99.933
3.25	3.125	0.000	0.000	99.933
3.50	3.375	0.000	0.000	99.933
3.75	3.625	0.000	0.000	99.933
4.00	3.875	0.007	0.026	99.959
5.00	4.500	0.011	0.041	100.000

Statistical Results			
Mean:	-0.2840	phi	(1.2176 mm)
Standard Dev:	1.2091	phi-units	(0.4325 mm)
Skewness:	0.0548	dimensionless	
Kurtosis:	2.7586	dimensionless	
5th Moment:	1.5303	dimensionless	
6th Moment:	11.7493	dimensionless	
RARD *	4.2577	dimensionless	
Median	-0.3822	phi	(1.3033 mm)

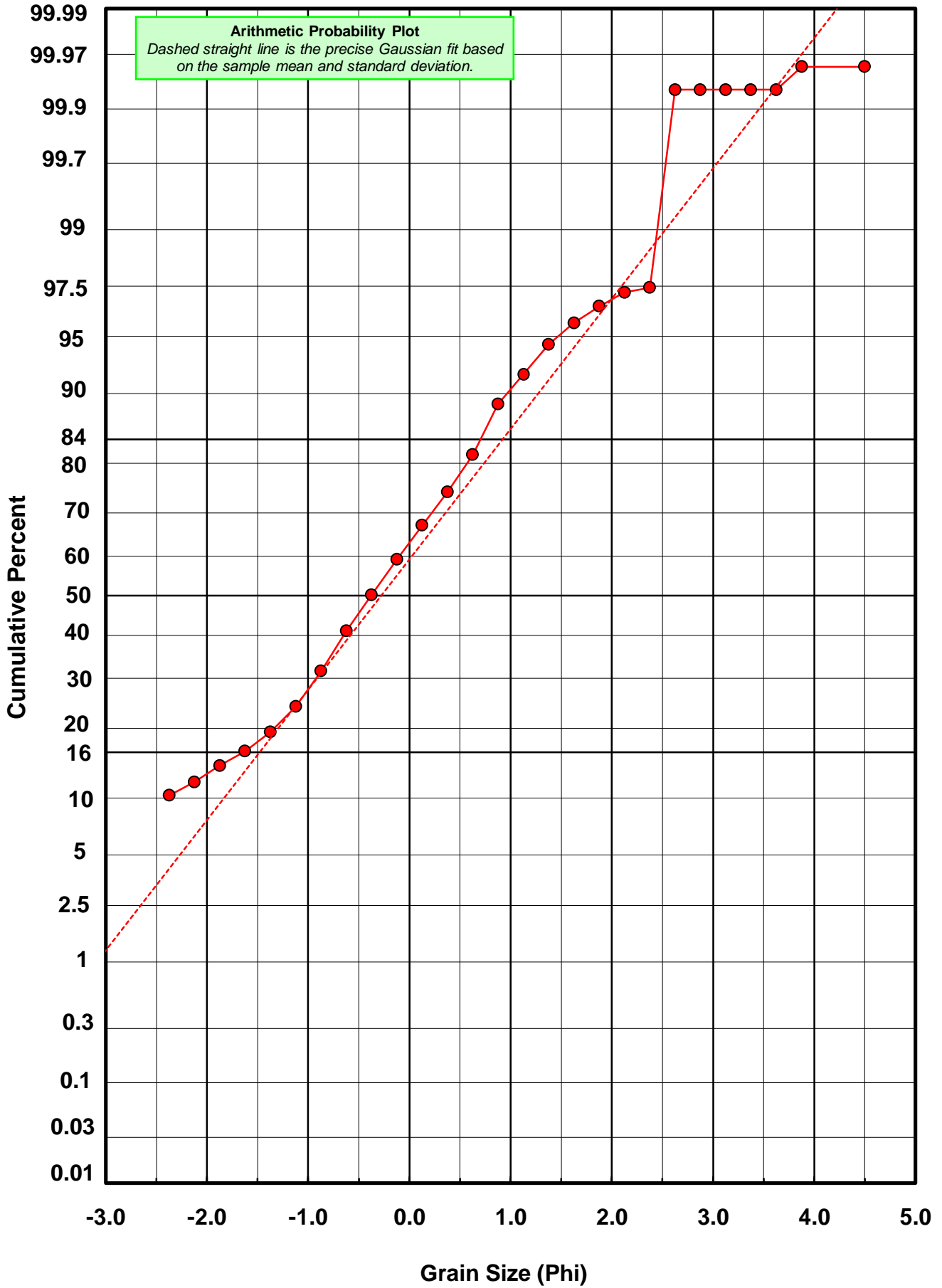
* RARD = reciprocal absolute relative dispersion (see below)

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	
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PI-23-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-23-BB

Total Digested Mass: 20.341 grams

% Silica: 43.5 %

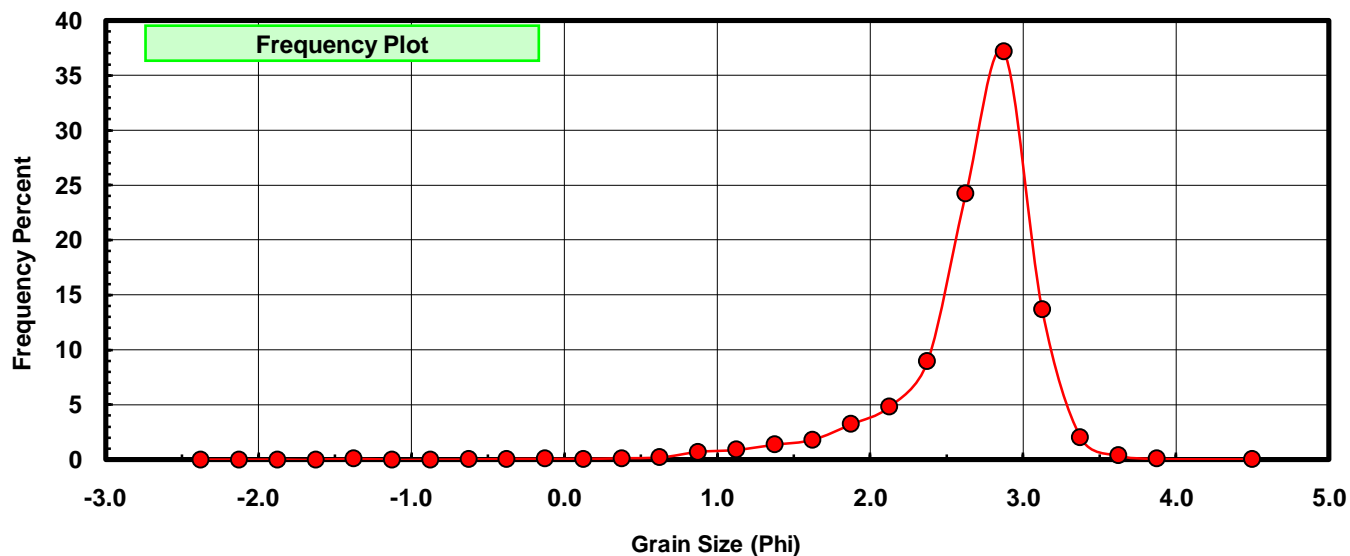
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.020	0.098	0.098
-1.00	-1.125	0.000	0.000	0.098
-0.75	-0.875	0.000	0.000	0.098
-0.50	-0.625	0.007	0.034	0.133
-0.25	-0.375	0.009	0.044	0.177
0.00	-0.125	0.016	0.079	0.256
0.25	0.125	0.011	0.054	0.310
0.50	0.375	0.026	0.128	0.438
0.75	0.625	0.043	0.211	0.649
1.00	0.875	0.141	0.693	1.342
1.25	1.125	0.183	0.900	2.242
1.50	1.375	0.279	1.372	3.613
1.75	1.625	0.367	1.804	5.418
2.00	1.875	0.657	3.230	8.648
2.25	2.125	0.975	4.793	13.441
2.50	2.375	1.820	8.947	22.388
2.75	2.625	4.927	24.222	46.610
3.00	2.875	7.554	37.137	83.747
3.25	3.125	2.787	13.701	97.449
3.50	3.375	0.414	2.035	99.484
3.75	3.625	0.077	0.379	99.862
4.00	3.875	0.018	0.088	99.951
5.00	4.500	0.010	0.049	100.000

Statistical Results			
Mean:	2.6591	phi	(0.1583 mm)
Standard Dev:	0.5013	phi-units	(0.7065 mm)
Skewness:	-2.1749	dimensionless	
Kurtosis:	11.6011	dimensionless	
5th Moment:	-63.0090	dimensionless	
6th Moment:	418.6644	dimensionless	
RARD *	0.1885	dimensionless	
Median	2.6478	phi	(0.1596 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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