

## Onshore Grab Sample

Sample: PI-05  
Sample Taken By: D. Phelps  
Sample Collected On: 10/9/09  
Splits? N/A

County: Pinellas  
Latitude: 28° 05' 5.1"  
Longitude: 82° 50' 13.5"  
Datum: WGS 84  
Surf. Elev: N/A  
Datum: N/A

### Fine Data Summary

Total Sample Weight	58.962 grams
Total Fines in Sample	0.293 grams
Total Percent Fines	0.49 %

### Dry Sieving Summary

Total Sample Weight	58.661 grams
Total Digested Weight	53.715 grams
Total Carbonate Weight	4.946 grams
Total Silica %	91.57 %
Total Carbonate %	8.43 %
Carbonate/Silica Ratio	0.092

### General Comments:

None

### Description

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-05

Total Sample Mass: 58.661 grams

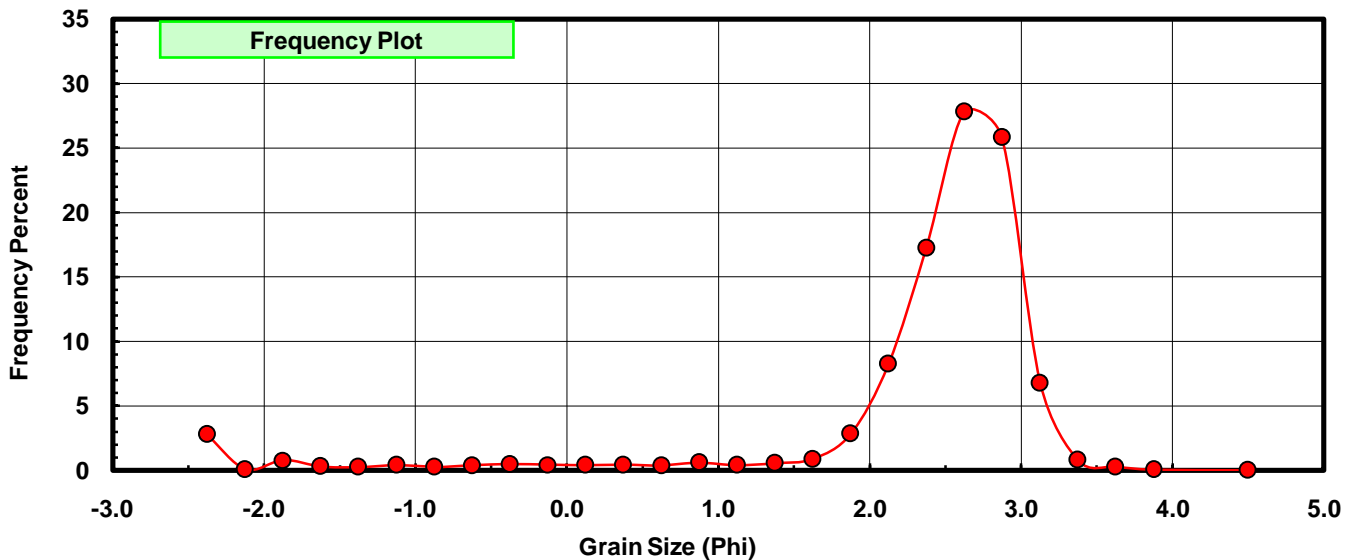
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.640	2.796	2.796
-2.00	-2.125	0.055	0.094	2.889
-1.75	-1.875	0.467	0.796	3.686
-1.50	-1.625	0.180	0.307	3.992
-1.25	-1.375	0.156	0.266	4.258
-1.00	-1.125	0.246	0.419	4.678
-0.75	-0.875	0.162	0.276	4.954
-0.50	-0.625	0.226	0.385	5.339
-0.25	-0.375	0.288	0.491	5.830
0.00	-0.125	0.263	0.448	6.278
0.25	0.125	0.244	0.416	6.694
0.50	0.375	0.256	0.436	7.131
0.75	0.625	0.227	0.387	7.518
1.00	0.875	0.358	0.610	8.128
1.25	1.125	0.247	0.421	8.549
1.50	1.375	0.331	0.564	9.113
1.75	1.625	0.520	0.886	10.000
2.00	1.875	1.666	2.840	12.840
2.25	2.125	4.843	8.256	21.096
2.50	2.375	10.123	17.257	38.353
2.75	2.625	16.320	27.821	66.173
3.00	2.875	15.156	25.837	92.010
3.25	3.125	3.987	6.797	98.807
3.50	3.375	0.476	0.811	99.618
3.75	3.625	0.175	0.298	99.916
4.00	3.875	0.043	0.073	99.990
5.00	4.50	0.006	0.010	100.000

Statistical Results			
Mean:	2.2984	phi	(0.2033 mm)
Standard Dev:	1.1426	phi-units	(0.453 mm)
Skewness:	-2.9658	dimensionless	
Kurtosis:	11.4482	dimensionless	
5th Moment:	-43.7251	dimensionless	
6th Moment:	170.8632	dimensionless	
RARD *	0.4971	dimensionless	
Median	2.4797	phi	(0.1793 mm)

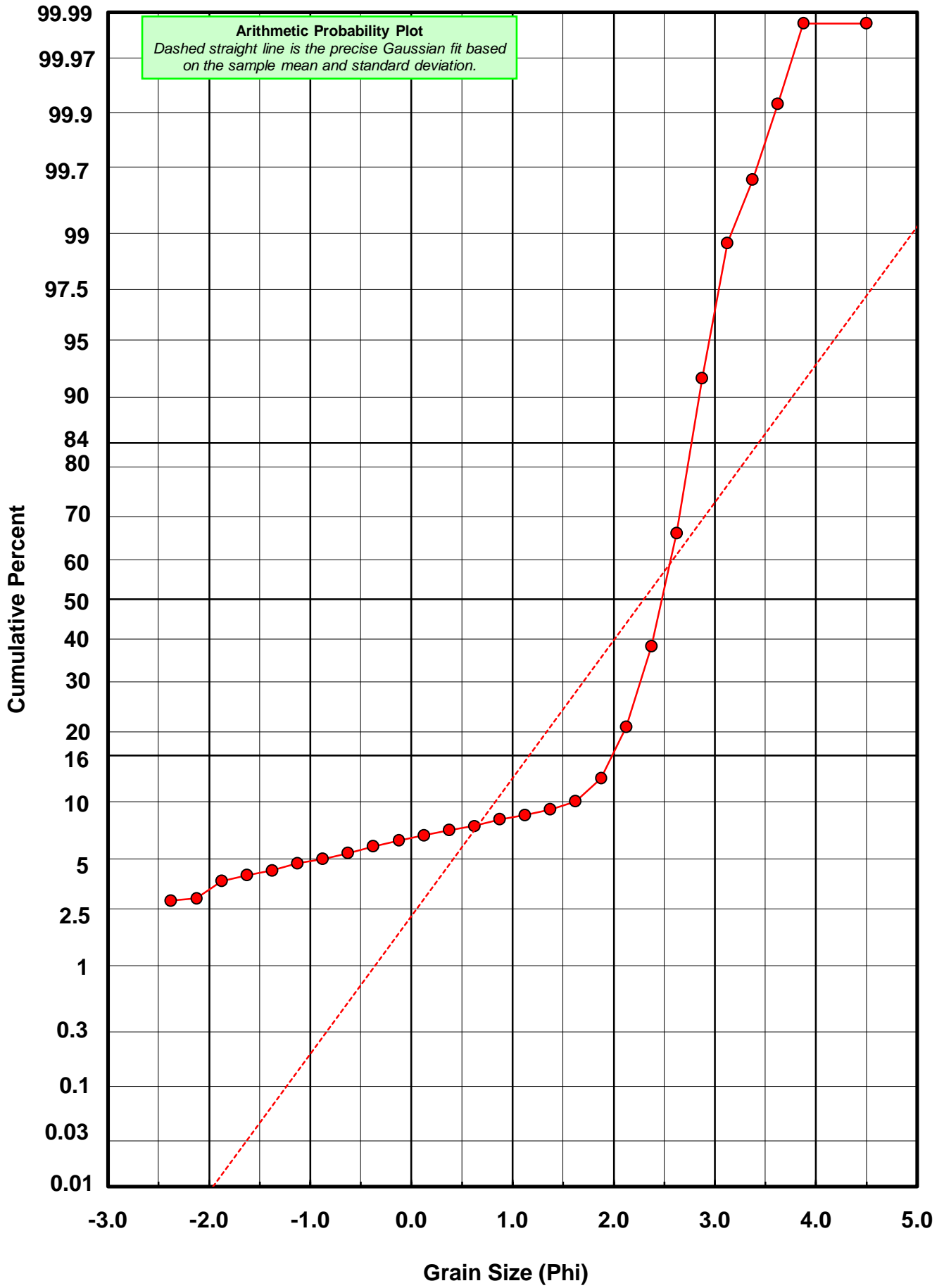
\* RARD = reciprocal absolute relative dispersion (see below)

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-05



# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: PI-05

Total Carbonate Mass: 14.089 grams

% Carbonate: 8.4 %

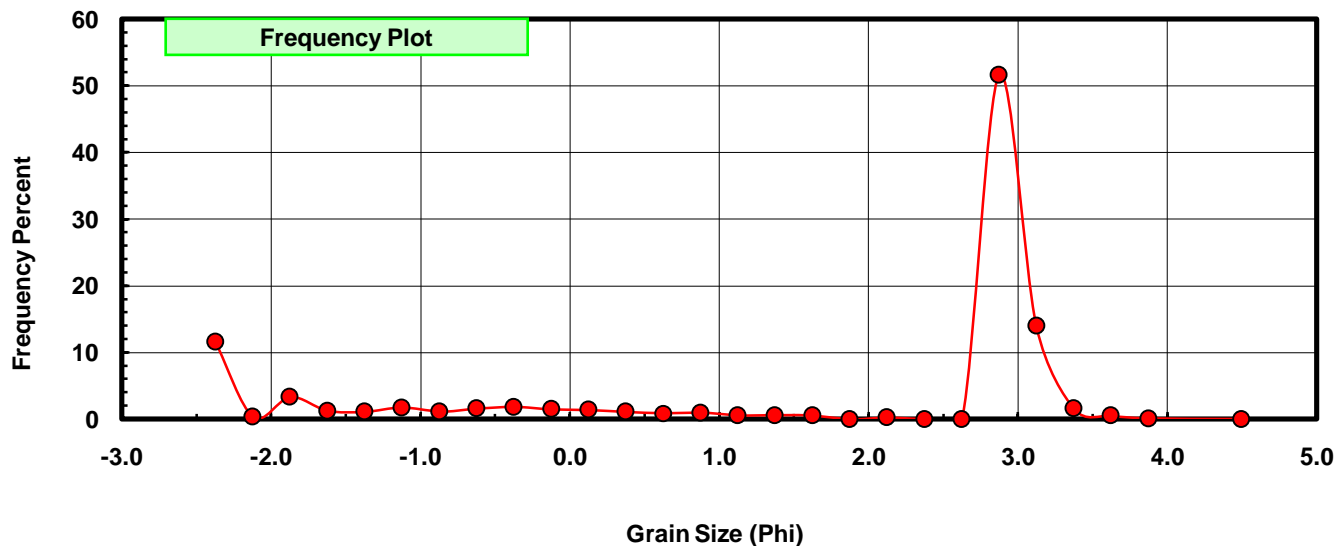
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.640	11.640	11.640
-2.00	-2.125	0.055	0.390	12.031
-1.75	-1.875	0.467	3.315	15.345
-1.50	-1.625	0.180	1.278	16.623
-1.25	-1.375	0.156	1.107	17.730
-1.00	-1.125	0.246	1.746	19.476
-0.75	-0.875	0.162	1.150	20.626
-0.50	-0.625	0.226	1.604	22.230
-0.25	-0.375	0.262	1.860	24.090
0.00	-0.125	0.213	1.512	25.602
0.25	0.125	0.199	1.412	27.014
0.50	0.375	0.160	1.136	28.150
0.75	0.625	0.128	0.909	29.058
1.00	0.875	0.139	0.987	30.045
1.25	1.125	0.085	0.603	30.648
1.50	1.375	0.087	0.618	31.266
1.75	1.625	0.080	0.568	31.833
2.00	1.875	0.000	0.000	31.833
2.25	2.125	0.037	0.263	32.096
2.50	2.375	0.000	0.000	32.096
2.75	2.625	0.000	0.000	32.096
3.00	2.875	7.279	51.664	83.760
3.25	3.125	1.970	13.983	97.743
3.50	3.375	0.227	1.611	99.354
3.75	3.625	0.075	0.532	99.886
4.00	3.875	0.015	0.106	99.993
5.00	4.500	0.001	0.007	100.000

Statistical Results			
Mean:	1.6194	phi	(0.3255 mm)
Standard Dev:	2.1335	phi-units	(0.2279 mm)
Skewness:	-1.0150	dimensionless	
Kurtosis:	2.1978	dimensionless	
5th Moment:	-3.6101	dimensionless	
6th Moment:	6.6816	dimensionless	
RARD *	1.3175	dimensionless	
Median	2.7116	phi	(0.1527 mm)

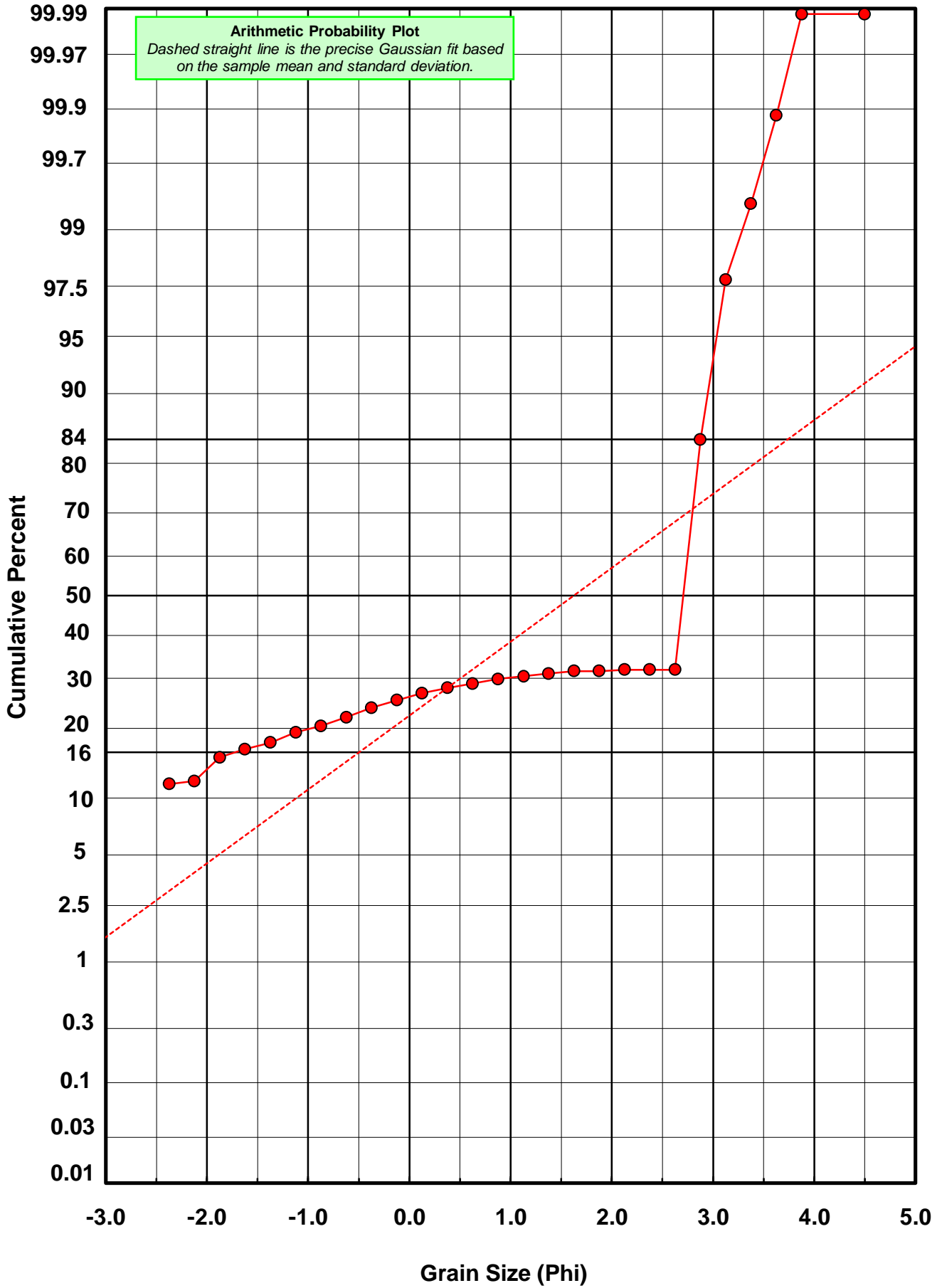
\* RARD = reciprocal absolute relative dispersion (see below)

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)
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# PI-05



# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: PI-05

Total Digested Mass: 53.715 grams

% Silica: 91.6 %

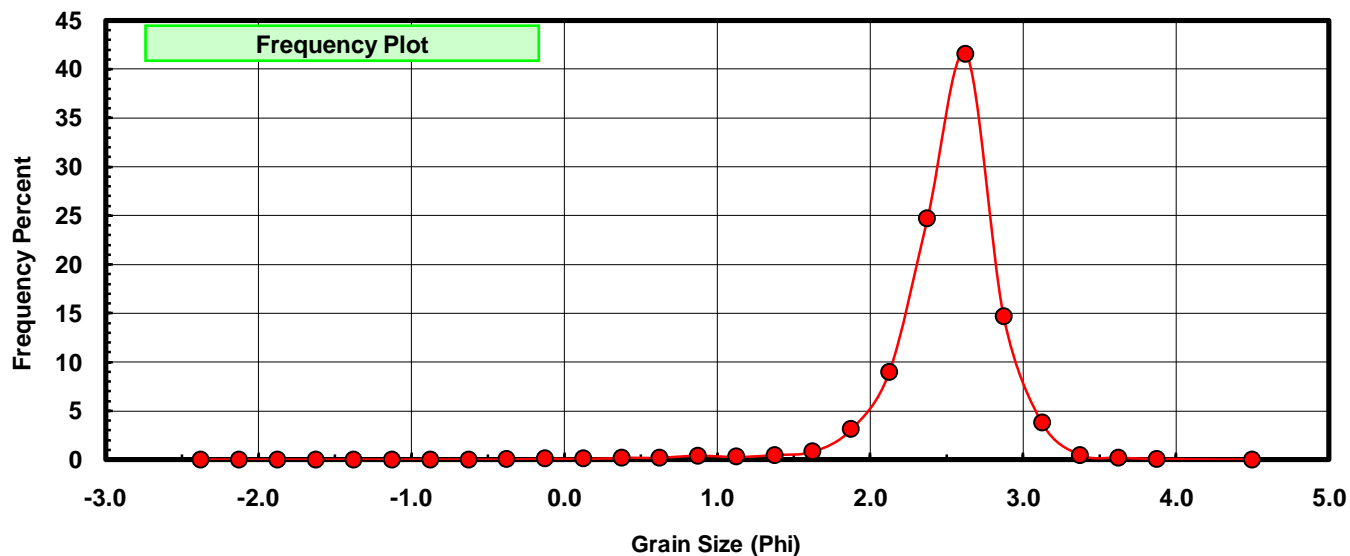
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.026	0.048	0.048
0.00	-0.125	0.050	0.093	0.141
0.25	0.125	0.045	0.084	0.225
0.50	0.375	0.096	0.179	0.404
0.75	0.625	0.099	0.184	0.588
1.00	0.875	0.219	0.408	0.996
1.25	1.125	0.162	0.302	1.298
1.50	1.375	0.244	0.454	1.752
1.75	1.625	0.440	0.819	2.571
2.00	1.875	1.667	3.103	5.674
2.25	2.125	4.806	8.947	14.622
2.50	2.375	13.265	24.695	39.317
2.75	2.625	22.320	41.553	80.869
3.00	2.875	7.877	14.664	95.534
3.25	3.125	2.017	3.755	99.289
3.50	3.375	0.249	0.464	99.752
3.75	3.625	0.100	0.186	99.939
4.00	3.875	0.028	0.052	99.991
5.00	4.500	0.005	0.009	100.000

Statistical Results			
Mean:	2.5175	phi	(0.1746 mm)
Standard Dev:	0.3716	phi-units	(0.773 mm)
Skewness:	-1.9961	dimensionless	
Kurtosis:	13.1295	dimensionless	
5th Moment:	-68.6157	dimensionless	
6th Moment:	445.4925	dimensionless	
RARD *	0.1476	dimensionless	
Median	2.4393	phi	(0.1844 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)
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