

Onshore Grab Sample

Sample: LE-16
Sample Taken By: D. Phelps
Sample Collected On: 11/7/09
Splits? N/A

County: Lee
Latitude: 26° 35' 37.1"
Longitude: 82° 13' 27.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	57.383 grams
Total Fines in Sample	0.148 grams
Total Percent Fines	0.26 %

Dry Sieving Summary

Total Sample Weight	57.244 grams
Total Digested Weight	47.883 grams
Total Carbonate Weight	9.361 grams
Total Silica %	83.65 %
Total Carbonate %	16.35 %
Carbonate/Silica Ratio	0.195

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-16

Total Sample Mass: 57.244 grams

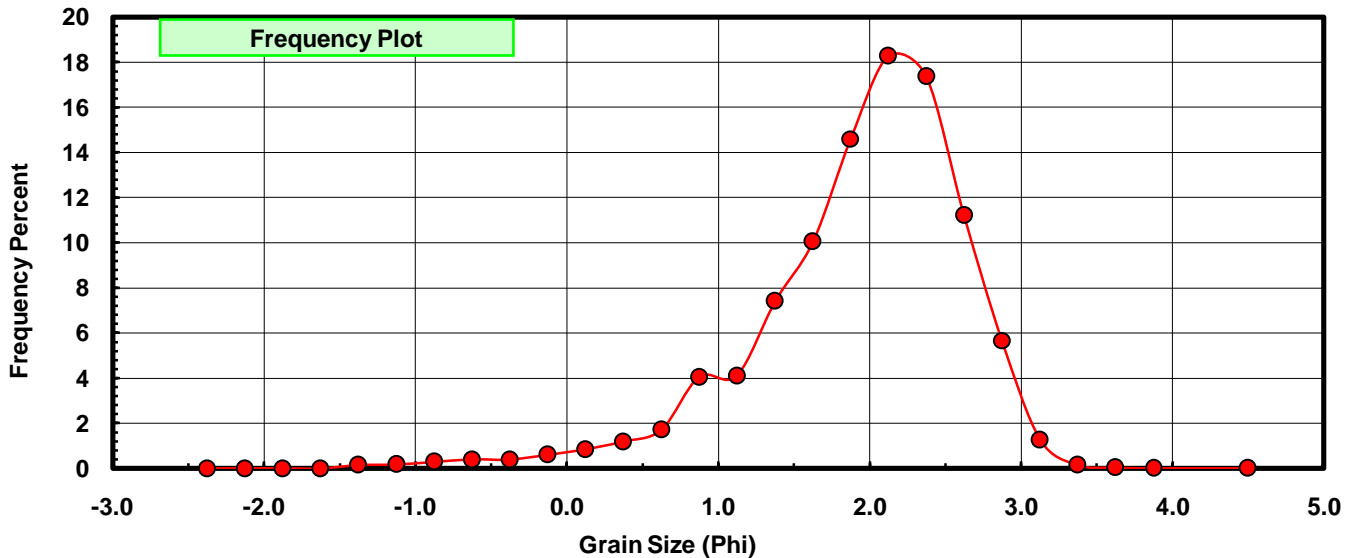
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.086	0.150	0.150
-1.00	-1.125	0.103	0.180	0.330
-0.75	-0.875	0.164	0.286	0.617
-0.50	-0.625	0.227	0.397	1.013
-0.25	-0.375	0.223	0.390	1.403
0.00	-0.125	0.347	0.606	2.009
0.25	0.125	0.482	0.842	2.851
0.50	0.375	0.679	1.186	4.037
0.75	0.625	0.981	1.714	5.751
1.00	0.875	2.316	4.046	9.797
1.25	1.125	2.349	4.103	13.900
1.50	1.375	4.244	7.414	21.314
1.75	1.625	5.755	10.053	31.367
2.00	1.875	8.363	14.609	45.977
2.25	2.125	10.466	18.283	64.260
2.50	2.375	9.945	17.373	81.633
2.75	2.625	6.420	11.215	92.848
3.00	2.875	3.248	5.674	98.522
3.25	3.125	0.730	1.275	99.797
3.50	3.375	0.088	0.154	99.951
3.75	3.625	0.020	0.035	99.986
4.00	3.875	0.004	0.007	99.993
5.00	4.50	0.004	0.007	100.000

Statistical Results			
Mean:	1.9313	phi	(0.2622 mm)
Standard Dev:	0.7039	phi-units	(0.6139 mm)
Skewness:	-1.2307	dimensionless	
Kurtosis:	5.4074	dimensionless	
5th Moment:	-16.3130	dimensionless	
6th Moment:	64.6892	dimensionless	
RARD *	0.3645	dimensionless	
Median	1.9300	phi	(0.2624 mm)

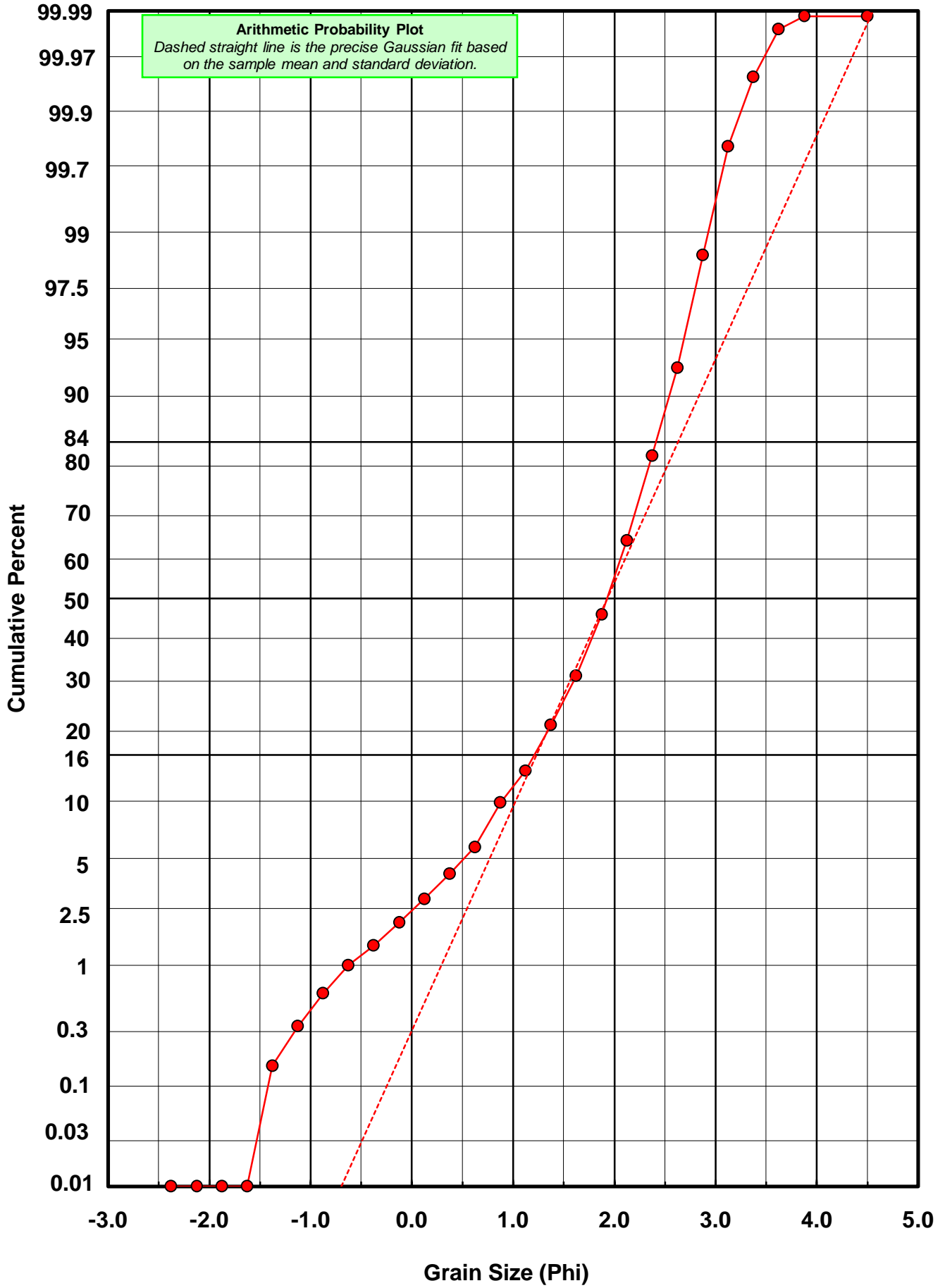
* RARD = reciprocal absolute relative dispersion (see below)

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)



LE-16



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: LE-16

Total Carbonate Mass: 9.550 grams

% Carbonate: 16.4 %

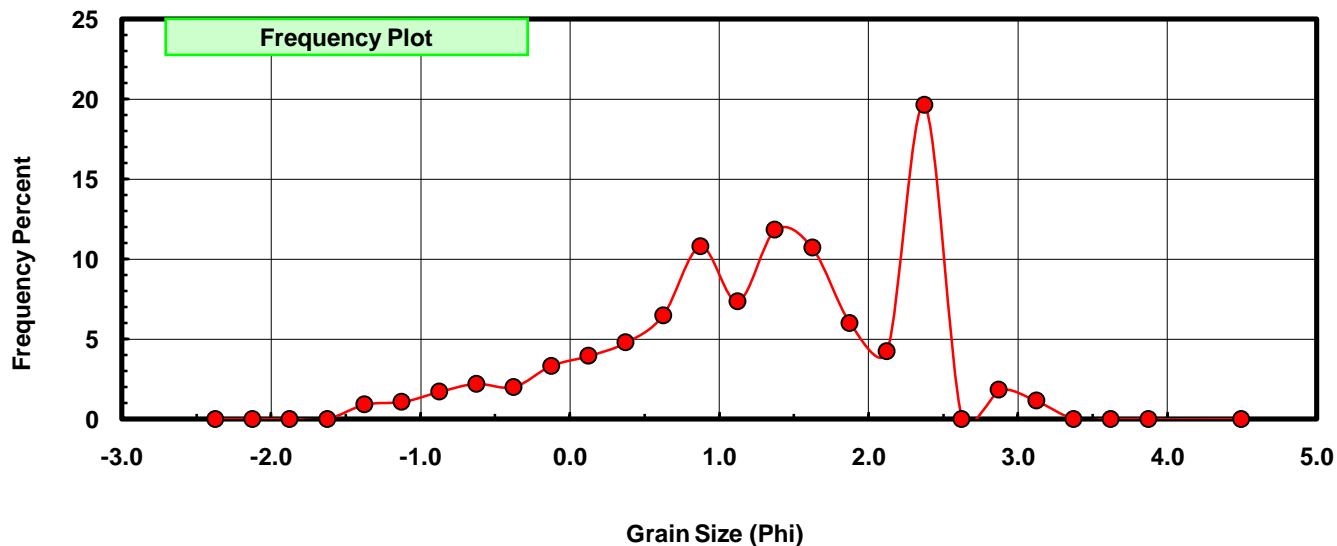
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.086	0.901	0.901
-1.00	-1.125	0.103	1.079	1.979
-0.75	-0.875	0.164	1.717	3.696
-0.50	-0.625	0.211	2.209	5.906
-0.25	-0.375	0.192	2.010	7.916
0.00	-0.125	0.317	3.319	11.236
0.25	0.125	0.377	3.948	15.183
0.50	0.375	0.457	4.785	19.969
0.75	0.625	0.620	6.492	26.461
1.00	0.875	1.030	10.785	37.246
1.25	1.125	0.703	7.361	44.607
1.50	1.375	1.130	11.832	56.440
1.75	1.625	1.022	10.702	67.141
2.00	1.875	0.573	6.000	73.141
2.25	2.125	0.406	4.251	77.393
2.50	2.375	1.875	19.634	97.026
2.75	2.625	0.000	0.000	97.026
3.00	2.875	0.174	1.822	98.848
3.25	3.125	0.109	1.141	99.990
3.50	3.375	0.000	0.000	99.990
3.75	3.625	0.001	0.010	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.2698	phi	(0.4147 mm)
Standard Dev:	1.0203	phi-units	(0.493 mm)
Skewness:	-0.4965	dimensionless	
Kurtosis:	2.4873	dimensionless	
5th Moment:	-3.0937	dimensionless	
6th Moment:	9.6459	dimensionless	
RARD *	0.8036	dimensionless	
Median	1.2389	phi	(0.4237 mm)

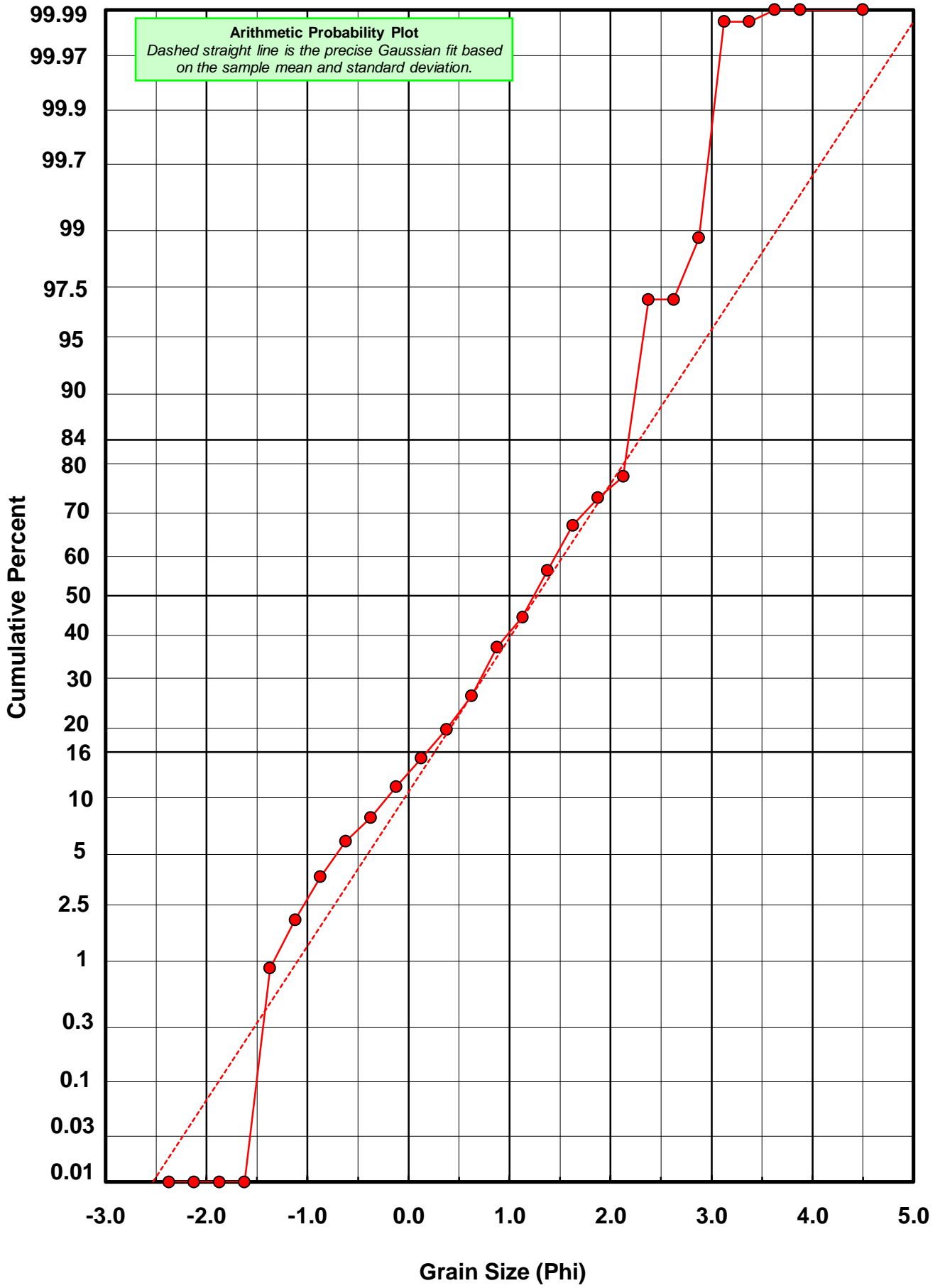
* RARD = reciprocal absolute relative dispersion (see below)

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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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Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-16

Total Digested Mass: 47.883 grams

% Silica: 83.6 %

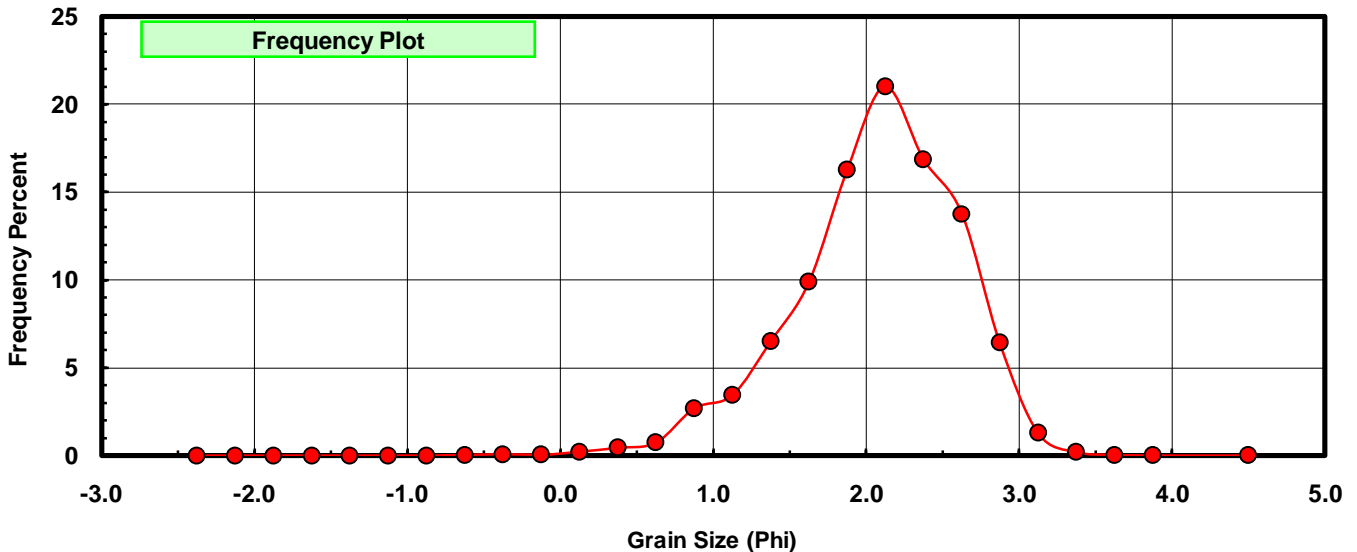
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
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-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.016	0.033	0.033
-0.25	-0.375	0.031	0.065	0.098
0.00	-0.125	0.030	0.063	0.161
0.25	0.125	0.105	0.219	0.380
0.50	0.375	0.222	0.464	0.844
0.75	0.625	0.361	0.754	1.598
1.00	0.875	1.286	2.686	4.283
1.25	1.125	1.646	3.438	7.721
1.50	1.375	3.114	6.503	14.224
1.75	1.625	4.733	9.885	24.109
2.00	1.875	7.790	16.269	40.378
2.25	2.125	10.060	21.010	61.387
2.50	2.375	8.070	16.854	78.241
2.75	2.625	6.595	13.773	92.014
3.00	2.875	3.074	6.420	98.434
3.25	3.125	0.621	1.297	99.731
3.50	3.375	0.096	0.200	99.931
3.75	3.625	0.019	0.040	99.971
4.00	3.875	0.009	0.019	99.990
5.00	4.500	0.005	0.010	100.000

Statistical Results			
Mean:	2.0662	phi	(0.2388 mm)
Standard Dev:	0.5473	phi-units	(0.6843 mm)
Skewness:	-0.6338	dimensionless	
Kurtosis:	3.7463	dimensionless	
5th Moment:	-7.0073	dimensionless	
6th Moment:	31.1622	dimensionless	
RARD *	0.2649	dimensionless	
Median	1.9895	phi	(0.2518 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{-(\phi)}$	

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