Onshore Grab Sample

Sample: LE-53
Sample Taken By: D. Phelps
Sample Collected On: 1/14/10
Splits? N/A

County: Lee
Latitude: 26° 21' 49.9"
Longitude: 82° 51' 47.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	67.07	grams
Total Fines in Sample	0.205	grams
Total Percent Fines	0.30	%

Dry Sieving Summary

Total Sample Weight	66.936	grams
Total Digested Weight	13.088	grams
Total Carbonate Weight	53.848	grams
Total Silica %	19.55	%
Total Carbonate %	80.45	%
Carbonate/Silica Ratio	4.114	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-53

Total Sample Mass: 66.936 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	8.474	12.660	12.660
-2.00	-2.125	2.817	4.208	16.868
-1.75	-1.875	2.935	4.385	21.253
-1.50	-1.625	3.178	4.748	26.001
-1.25	-1.375	3.751	5.604	31.605
-1.00	-1.125	3.735	5.580	37.185
-0.75	-0.875	4.081	6.097	43.282
-0.50	-0.625	4.962	7.413	50.695
-0.25	-0.375	3.975	5.939	56.633
0.00	-0.125	3.448	5.151	61.784
0.25	0.125	2.679	4.002	65.787
0.50	0.375	2.296	3.430	69.217
0.75	0.625	2.181	3.258	72.475
1.00	0.875	2.671	3.990	76.466
1.25	1.125	1.762	2.632	79.098
1.50	1.375	2.287	3.417	82.515
1.75	1.625	2.212	3.305	85.819
2.00	1.875	2.721	4.065	89.884
2.25	2.125	2.414	3.606	93.491
2.50	2.375	1.789	2.673	96.163
2.75	2.625	1.372	2.050	98.213
3.00	2.875	0.837	1.250	99.464
3.25	3.125	0.256	0.382	99.846
3.50	3.375	0.063	0.094	99.940
3.75	3.625	0.026	0.039	99.979
4.00	3.875	0.006	0.009	99.988
5.00	4.50	0.008	0.012	100.000

Statistical Results			
Mean:	-0.2907	phi	(1.2233 mm)
Standard Dev:	1.5454	phi-units	(0.3426 mm)
Skewness:	0.3655	dimensionless	
Kurtosis:	2.0300	dimensionless	
5th Moment:	1.7185	dimensionless	
6th Moment:	5.4827	dimensionless	
RARD *	5.3154	dimensionless	
Median	-0.6484	phi	(1.5675 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

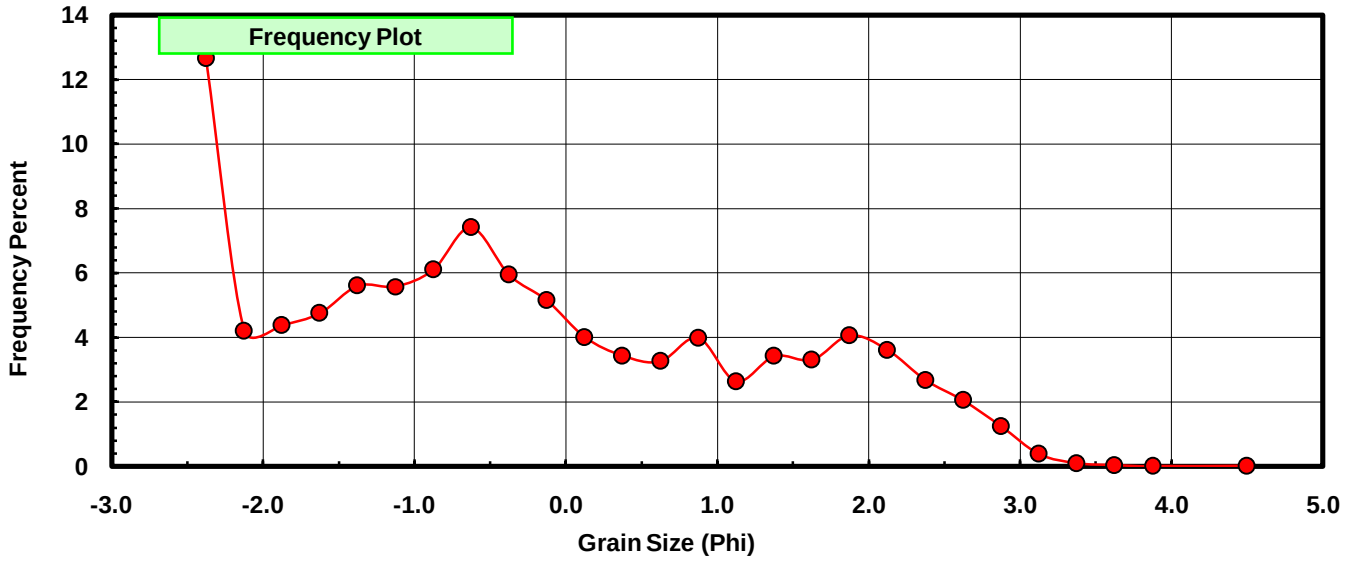
Statistical Explanation

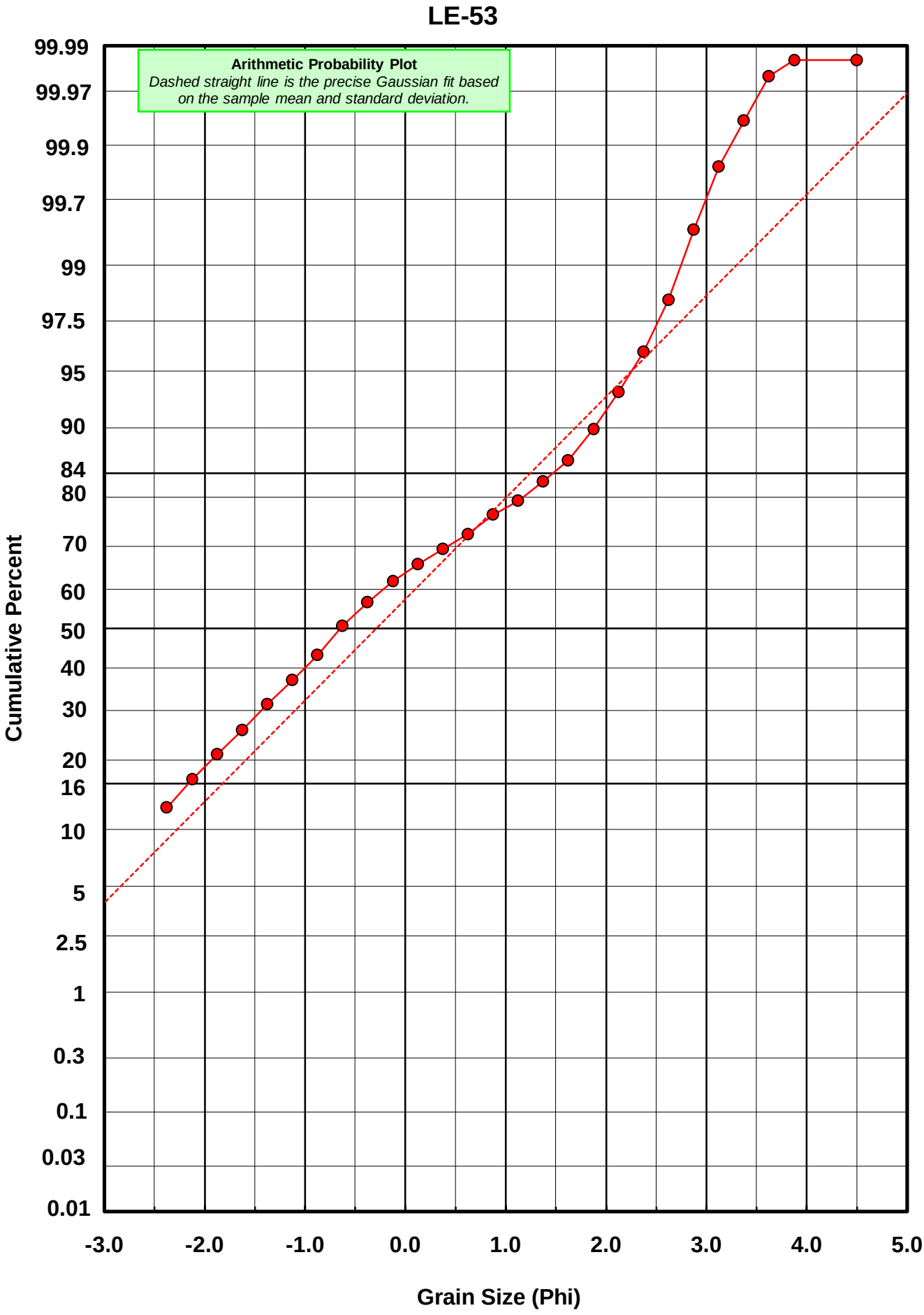
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

For Further Explanation, See Basillle 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-53
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: LE-53

Total Carbonate Mass: 54.377 grams

% Carbonate: 80.4 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	8.474	15.584	15.584
-2.00	-2.125	2.817	5.180	20.764
-1.75	-1.875	2.935	5.398	26.162
-1.50	-1.625	3.178	5.844	32.006
-1.25	-1.375	3.751	6.898	38.904
-1.00	-1.125	3.735	6.869	45.773
-0.75	-0.875	4.081	7.505	53.278
-0.50	-0.625	4.962	9.125	62.403
-0.25	-0.375	3.965	7.292	69.695
0.00	-0.125	3.430	6.308	76.003
0.25	0.125	2.666	4.903	80.906
0.50	0.375	2.272	4.178	85.084
0.75	0.625	2.129	3.915	88.999
1.00	0.875	2.395	4.404	93.403
1.25	1.125	1.150	2.115	95.518
1.50	1.375	1.098	2.019	97.538
1.75	1.625	0.704	1.295	98.832
2.00	1.875	0.324	0.596	99.428
2.25	2.125	0.310	0.570	99.998
2.50	2.375	0.000	0.000	99.998
2.75	2.625	0.000	0.000	99.998
3.00	2.875	0.000	0.000	99.998
3.25	3.125	0.000	0.000	99.998
3.50	3.375	0.000	0.000	99.998
3.75	3.625	0.000	0.000	99.998
4.00	3.875	0.000	0.000	99.998
5.00	4.500	0.001	0.002	100.000

Statistical Results			
Mean:	-0.8257	phi	(1.7723 mm)
Standard Dev:	1.1503	phi-units	(0.4505 mm)
Skewness:	0.3415	dimensionless	
Kurtosis:	2.2340	dimensionless	
5th Moment:	2.2012	dimensionless	
6th Moment:	7.4096	dimensionless	
RARD *	1.3932	dimensionless	
Median	-0.9842	phi	(1.9782 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 Basillle et al. 2002

Millimeter data calculated by mm = 2^(-phi)

Reciprocal Absolute Relative Dispersion (RARD) Scale	
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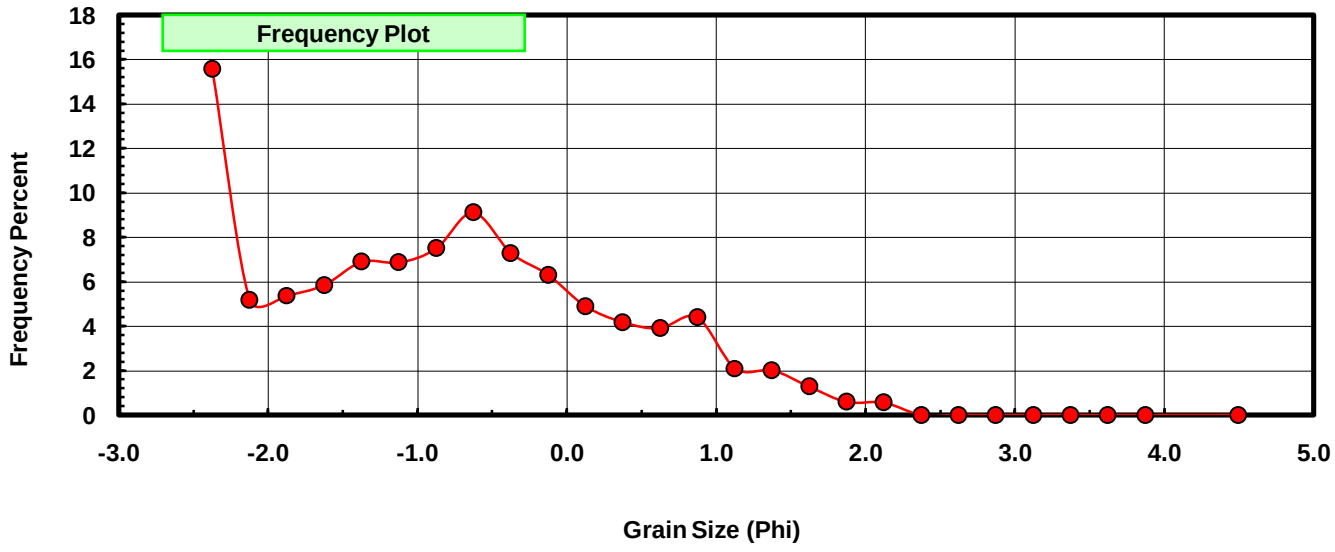

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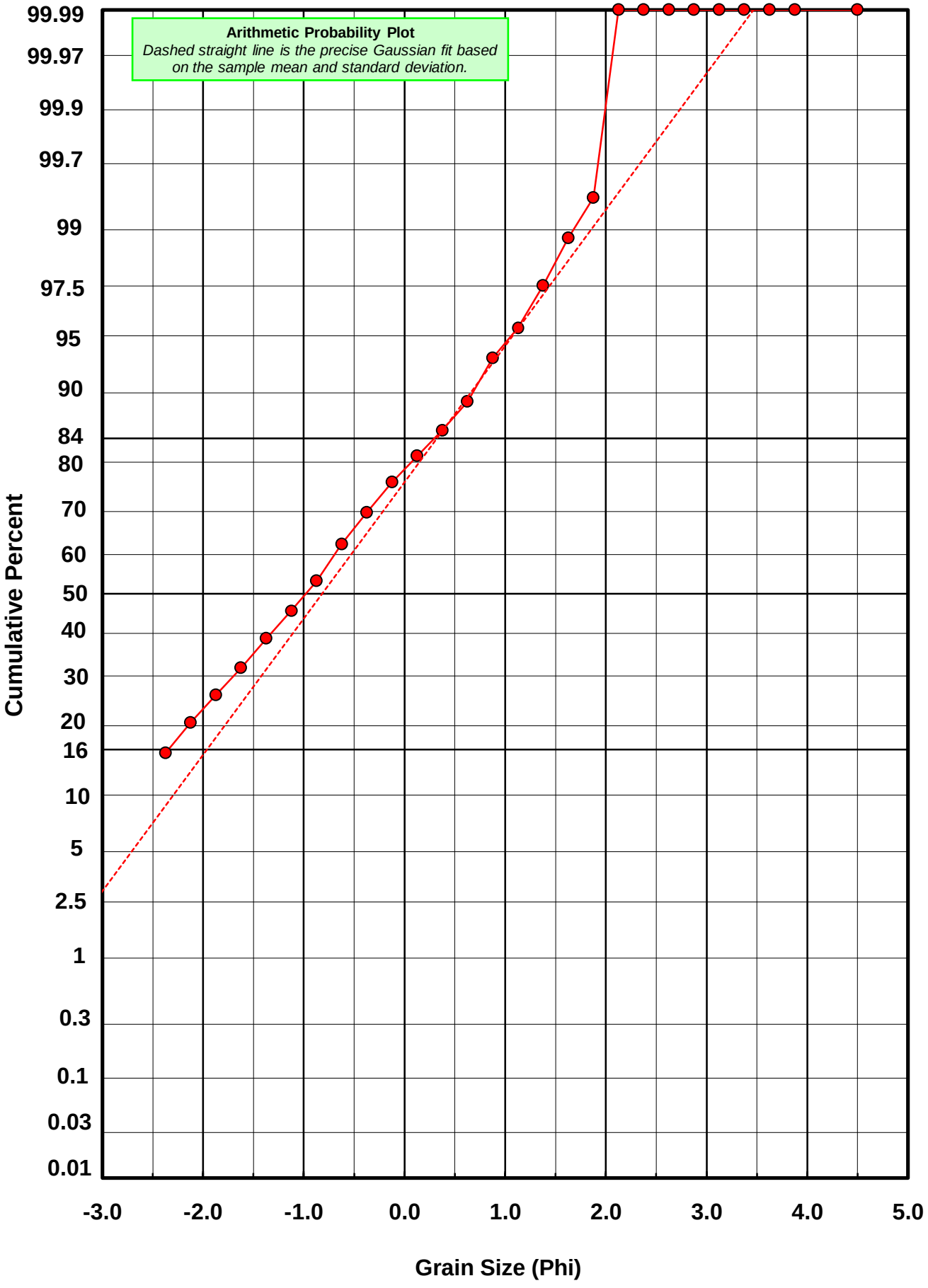
Arithmetic Probability Plot
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Cumulative Percent
99.99
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16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-53

Total Digested Mass: 13.088 grams

% Silica: 19.6 %

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	0.010	0.076	0.076
0.00	-0.125	0.018	0.138	0.214
0.25	0.125	0.013	0.099	0.313
0.50	0.375	0.024	0.183	0.497
0.75	0.625	0.052	0.397	0.894
1.00	0.875	0.276	2.109	3.003
1.25	1.125	0.612	4.676	7.679
1.50	1.375	1.189	9.085	16.763
1.75	1.625	1.508	11.522	28.285
2.00	1.875	2.397	18.314	46.600
2.25	2.125	2.104	16.076	62.676
2.50	2.375	2.017	15.411	78.087
2.75	2.625	1.519	11.606	89.693
3.00	2.875	0.897	6.854	96.546
3.25	3.125	0.297	2.269	98.816
3.50	3.375	0.095	0.726	99.542
3.75	3.625	0.040	0.306	99.847
4.00	3.875	0.013	0.099	99.947
5.00	4.500	0.007	0.053	100.000

Statistical Results			
Mean:	2.0515	phi	(0.2412 mm)
Standard Dev:	0.5887	phi-units	(0.6649 mm)
Skewness:	-0.1372	dimensionless	
Kurtosis:	3.1275	dimensionless	
5th Moment:	-1.6453	dimensionless	
6th Moment:	21.3172	dimensionless	
RARD *	0.2870	dimensionless	
Median	1.9279	phi	(0.2628 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

Statistical Explanation

Calculations based on the Method of Moments
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Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

For Further Explanation, See Basillle et al. 2002

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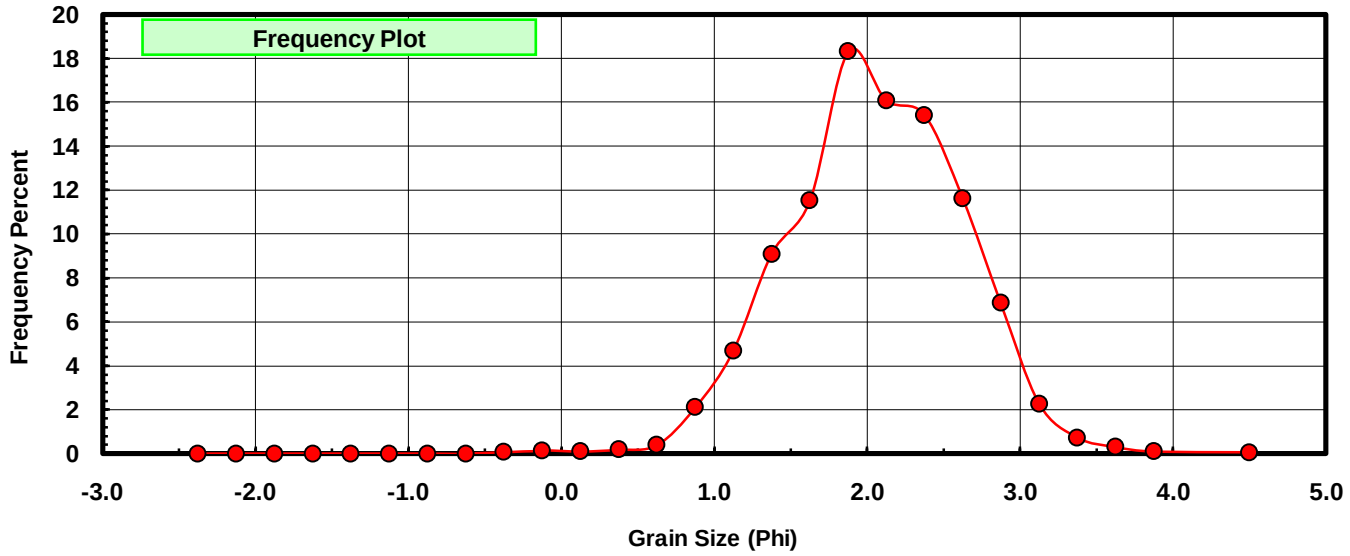

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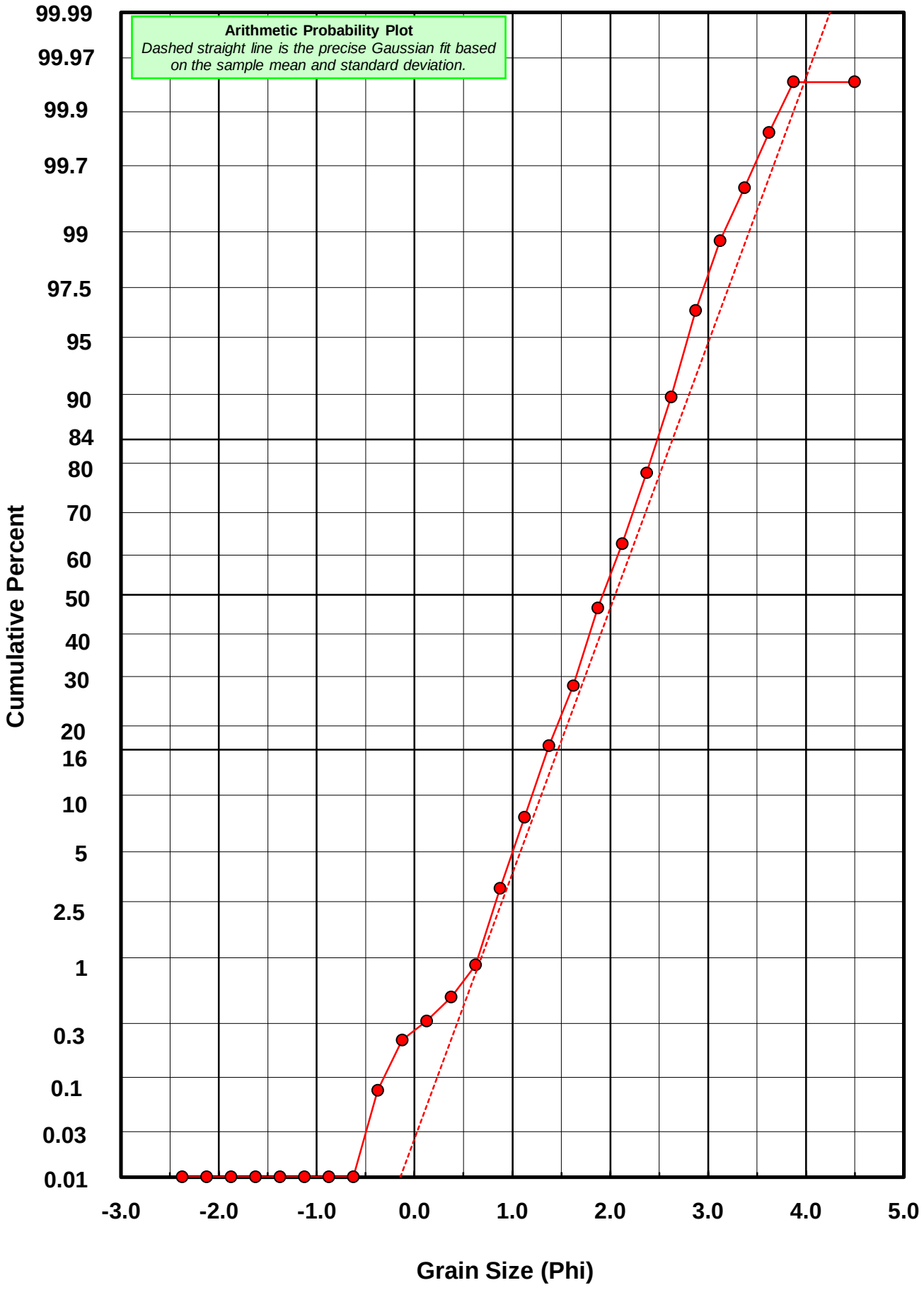
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-2.0
-1.0
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3.0
4.0
5.0
Grain Size (Phi)