Onshore Grab Sample

Sample: LE-52
Sample Taken By: D. Phelps
Sample Collected On: 1/28/10
Splits? N/A

County: Lee
Latitude: 26° 22' 2.8"
Longitude: 82° 51' 44.9"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	63.264	grams
Total Fines in Sample	0.245	grams
Total Percent Fines	0.39	%

Dry Sieving Summary

Total Sample Weight	62.983	grams
Total Digested Weight	40.667	grams
Total Carbonate Weight	22.316	grams
Total Silica %	64.57	%
Total Carbonate %	35.43	%
Carbonate/Silica Ratio	0.549	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-52

Total Sample Mass: 62.983 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	3.706	5.884	5.884
-2.00	-2.125	0.879	1.396	7.280
-1.75	-1.875	1.035	1.643	8.923
-1.50	-1.625	1.082	1.718	10.641
-1.25	-1.375	1.053	1.672	12.313
-1.00	-1.125	0.804	1.277	13.589
-0.75	-0.875	1.081	1.716	15.306
-0.50	-0.625	1.024	1.626	16.932
-0.25	-0.375	1.009	1.602	18.534
0.00	-0.125	0.946	1.502	20.036
0.25	0.125	0.900	1.429	21.465
0.50	0.375	0.811	1.288	22.752
0.75	0.625	0.811	1.288	24.040
1.00	0.875	1.176	1.867	25.907
1.25	1.125	0.876	1.391	27.298
1.50	1.375	1.175	1.866	29.163
1.75	1.625	1.525	2.421	31.585
2.00	1.875	2.794	4.436	36.021
2.25	2.125	4.744	7.532	43.553
2.50	2.375	7.736	12.283	55.836
2.75	2.625	12.767	20.271	76.106
3.00	2.875	11.840	18.799	94.905
3.25	3.125	2.850	4.525	99.430
3.50	3.375	0.283	0.449	99.879
3.75	3.625	0.055	0.087	99.967
4.00	3.875	0.012	0.019	99.986
5.00	4.50	0.009	0.014	100.000

Statistical Results			
Mean:	1.5817	phi	(0.3341 mm)
Standard Dev:	1.7029	phi-units	(0.3072 mm)
Skewness:	-1.2509	dimensionless	
Kurtosis:	3.1197	dimensionless	
5th Moment:	-6.2494	dimensionless	
6th Moment:	13.9213	dimensionless	
RARD *	1.0766	dimensionless	
Median	2.2562	phi	(0.2093 mm)

* RARD = reciprocal absolute relative dispersion (see below)

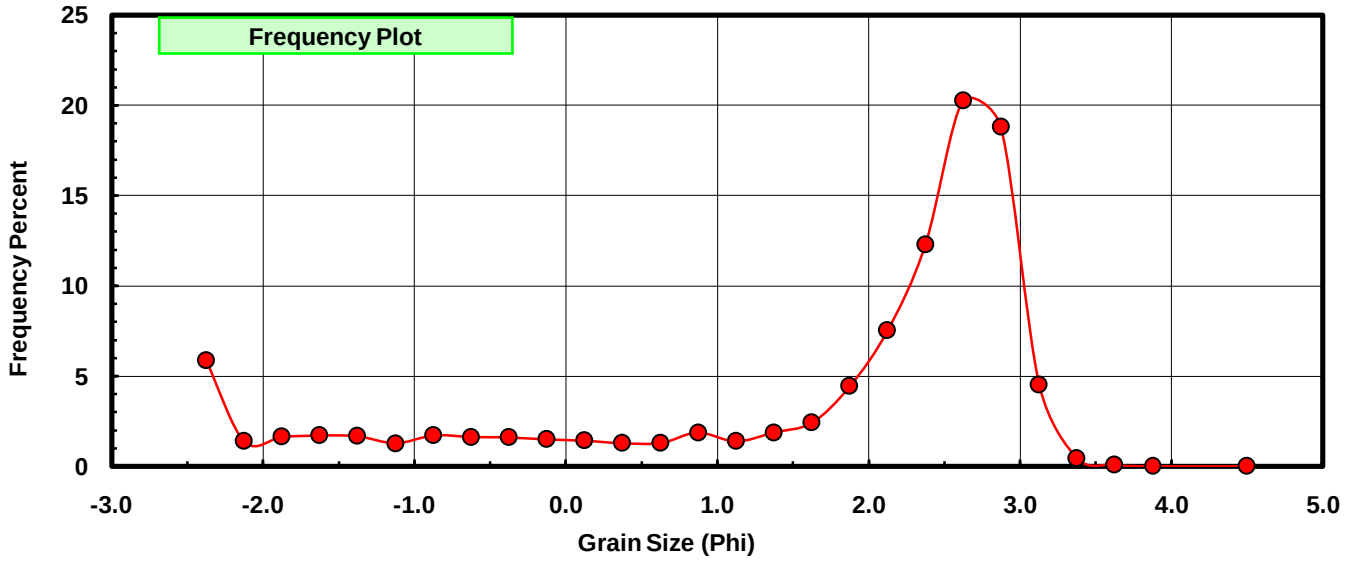
Statistical Explanation

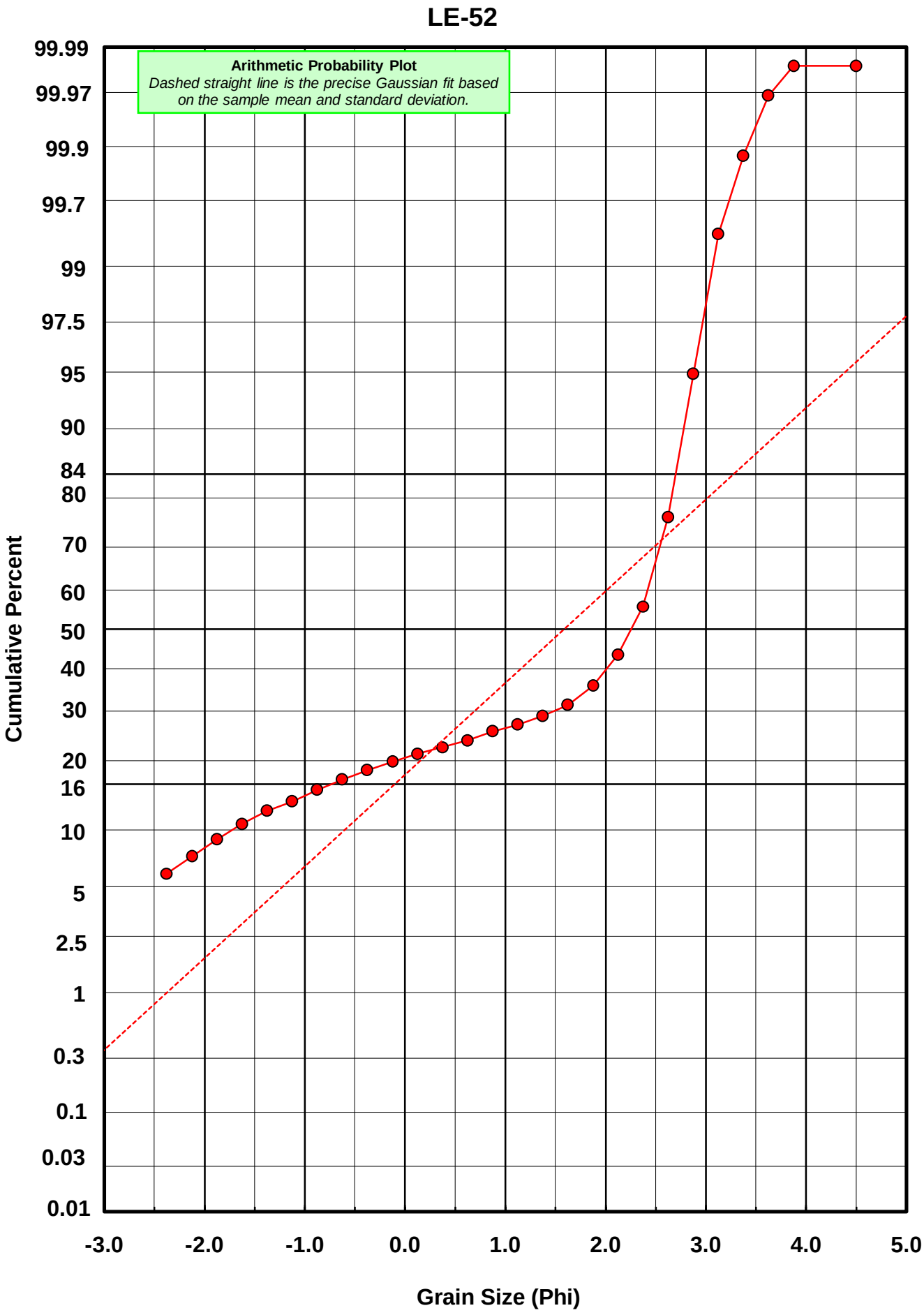
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-52
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-52

Total Carbonate Mass: 23.459 grams

% Carbonate: 35.4 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	3.706	15.798	15.798
-2.00	-2.125	0.879	3.747	19.545
-1.75	-1.875	1.035	4.412	23.957
-1.50	-1.625	1.082	4.612	28.569
-1.25	-1.375	1.053	4.489	33.058
-1.00	-1.125	0.804	3.427	36.485
-0.75	-0.875	1.081	4.608	41.093
-0.50	-0.625	1.024	4.365	45.458
-0.25	-0.375	1.009	4.301	49.759
0.00	-0.125	0.935	3.986	53.745
0.25	0.125	0.893	3.807	57.551
0.50	0.375	0.797	3.397	60.949
0.75	0.625	0.787	3.355	64.304
1.00	0.875	1.070	4.561	68.865
1.25	1.125	0.681	2.903	71.768
1.50	1.375	0.758	3.231	74.999
1.75	1.625	0.670	2.856	77.855
2.00	1.875	0.582	2.481	80.336
2.25	2.125	0.788	3.359	83.695
2.50	2.375	0.000	0.000	83.695
2.75	2.625	0.621	2.647	86.342
3.00	2.875	2.327	9.919	96.262
3.25	3.125	0.845	3.602	99.864
3.50	3.375	0.029	0.124	99.987
3.75	3.625	0.001	0.004	99.991
4.00	3.875	0.000	0.000	99.991
5.00	4.500	0.002	0.009	100.000

Statistical Results			
Mean:	-0.0098	phi	(1.0068 mm)
Standard Dev:	1.8735	phi-units	(0.2729 mm)
Skewness:	0.2687	dimensionless	
Kurtosis:	1.6981	dimensionless	
5th Moment:	1.0135	dimensionless	
6th Moment:	3.4325	dimensionless	
RARD *	191.8171	dimensionless	
Median	-0.3599	phi	(1.2833 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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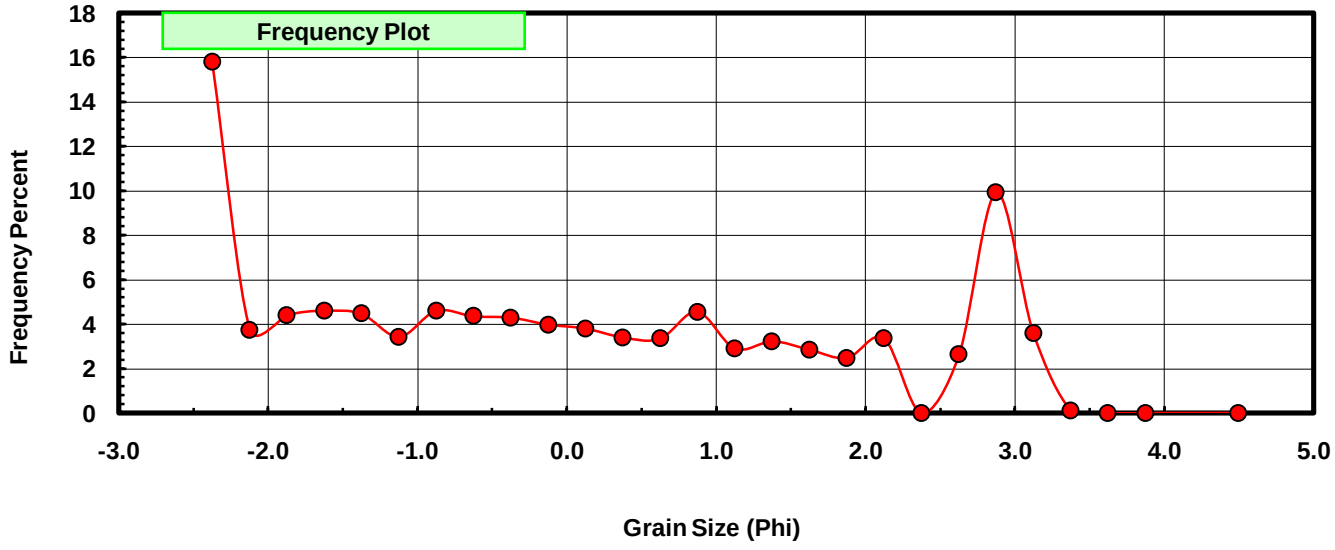

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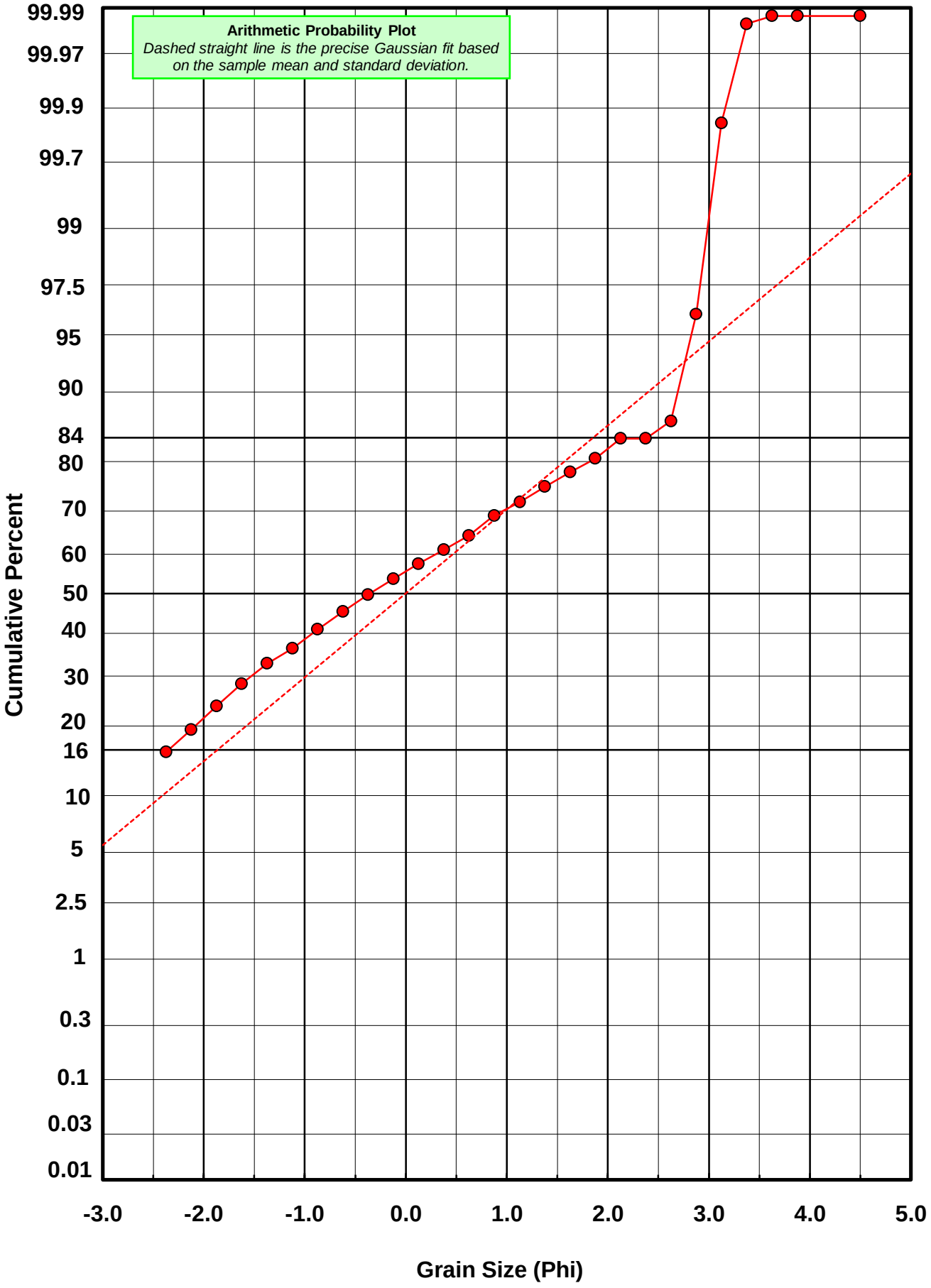
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-52

Total Digested Mass: 40.667 grams

% Silica: 64.6 %

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	0.000	0.000	0.000
0.00	-0.125	0.011	0.027	0.027
0.25	0.125	0.007	0.017	0.044
0.50	0.375	0.014	0.034	0.079
0.75	0.625	0.024	0.059	0.138
1.00	0.875	0.106	0.261	0.398
1.25	1.125	0.195	0.480	0.878
1.50	1.375	0.417	1.025	1.903
1.75	1.625	0.855	2.102	4.006
2.00	1.875	2.212	5.439	9.445
2.25	2.125	3.956	9.728	19.173
2.50	2.375	8.879	21.833	41.006
2.75	2.625	12.146	29.867	70.873
3.00	2.875	9.513	23.392	94.266
3.25	3.125	2.005	4.930	99.196
3.50	3.375	0.254	0.625	99.820
3.75	3.625	0.054	0.133	99.953
4.00	3.875	0.012	0.030	99.983
5.00	4.500	0.007	0.017	100.000

Statistical Results			
Mean:	2.5221	phi	(0.1741 mm)
Standard Dev:	0.3972	phi-units	(0.7593 mm)
Skewness:	-1.0243	dimensionless	
Kurtosis:	5.5156	dimensionless	
5th Moment:	-16.5029	dimensionless	
6th Moment:	86.9933	dimensionless	
RARD *	0.1575	dimensionless	
Median	2.4503	phi	(0.183 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)

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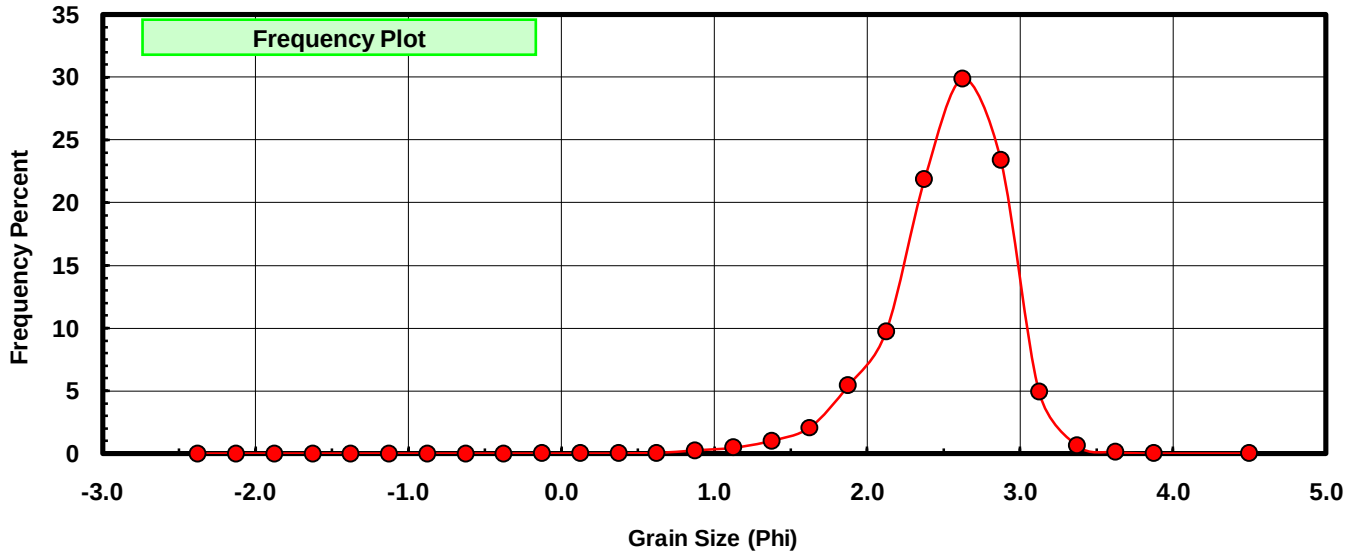

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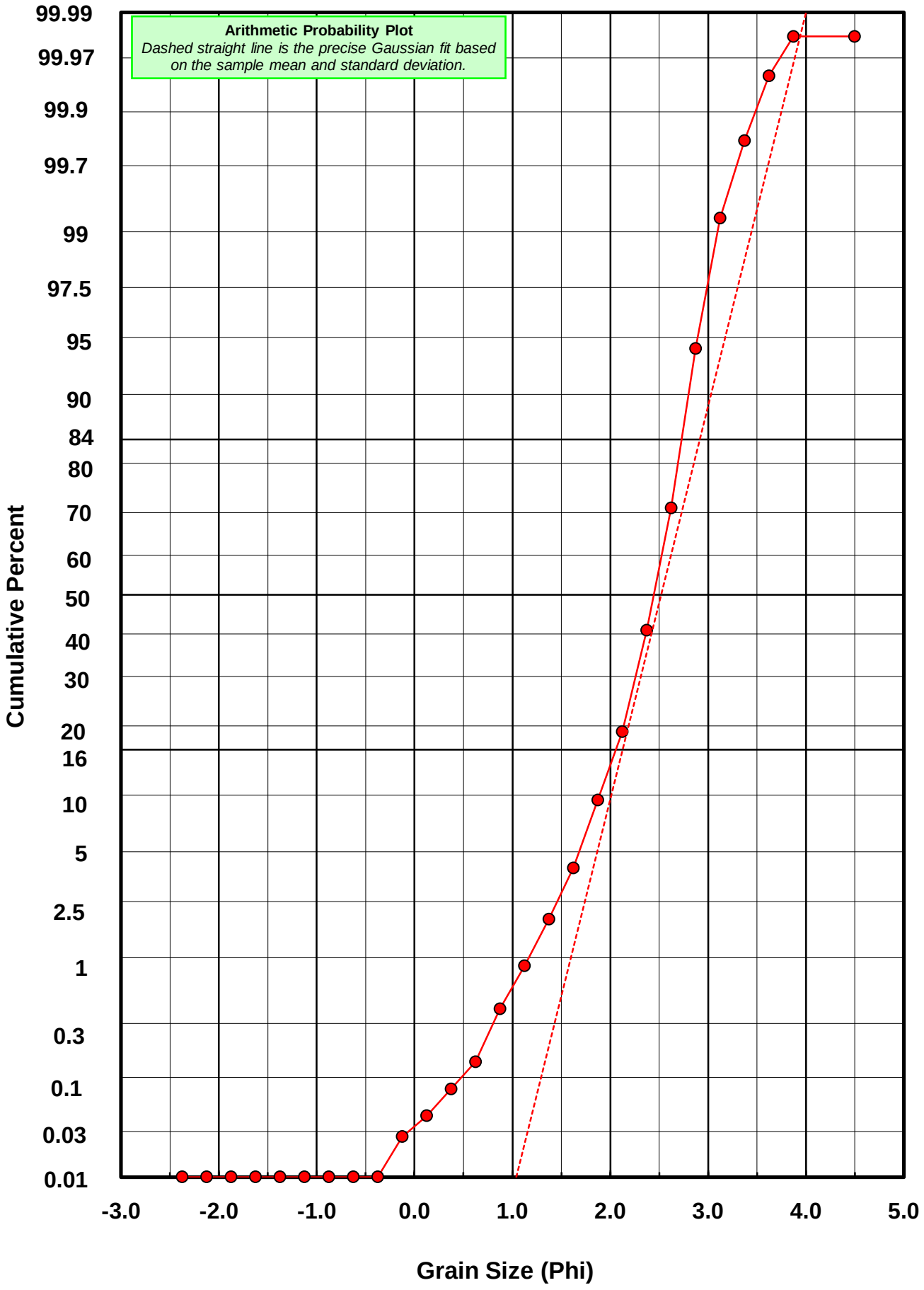
Arithmetic Probability Plot
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0.03
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-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)