Onshore Grab Sample

Sample: LE-51
Sample Taken By: D. Phelps
Sample Collected On: 1/28/10
Splits? N/A

County: Lee
Latitude: 26° 22' 38.9"
Longitude: 82° 52' 3.1"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	67.034	grams
Total Fines in Sample	0.206	grams
Total Percent Fines	0.31	%

Dry Sieving Summary

Total Sample Weight	66.906	grams
Total Digested Weight	50.701	grams
Total Carbonate Weight	16.205	grams
Total Silica %	75.78	%
Total Carbonate %	24.22	%
Carbonate/Silica Ratio	0.320	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-51

Total Sample Mass: 66.906 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.376	0.562	0.562
-2.00	-2.125	0.318	0.475	1.037
-1.75	-1.875	0.588	0.879	1.916
-1.50	-1.625	0.649	0.970	2.886
-1.25	-1.375	0.485	0.725	3.611
-1.00	-1.125	0.538	0.804	4.415
-0.75	-0.875	0.797	1.191	5.606
-0.50	-0.625	1.096	1.638	7.244
-0.25	-0.375	1.113	1.664	8.908
0.00	-0.125	1.223	1.828	10.736
0.25	0.125	1.094	1.635	12.371
0.50	0.375	0.970	1.450	13.821
0.75	0.625	0.851	1.272	15.093
1.00	0.875	1.394	2.084	17.176
1.25	1.125	1.065	1.592	18.768
1.50	1.375	1.853	2.770	21.538
1.75	1.625	2.489	3.720	25.258
2.00	1.875	4.625	6.913	32.171
2.25	2.125	7.180	10.731	42.902
2.50	2.375	10.049	15.020	57.922
2.75	2.625	14.183	21.198	79.120
3.00	2.875	10.660	15.933	95.053
3.25	3.125	2.799	4.183	99.236
3.50	3.375	0.333	0.498	99.734
3.75	3.625	0.132	0.197	99.931
4.00	3.875	0.031	0.046	99.978
5.00	4.50	0.015	0.022	100.000

Statistical Results			
Mean:	1.9326	phi	(0.262 mm)
Standard Dev:	1.2199	phi-units	(0.4293 mm)
Skewness:	-1.6670	dimensionless	
Kurtosis:	5.0829	dimensionless	
5th Moment:	-13.8888	dimensionless	
6th Moment:	41.6699	dimensionless	
RARD *	0.6312	dimensionless	
Median	2.2431	phi	(0.2112 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

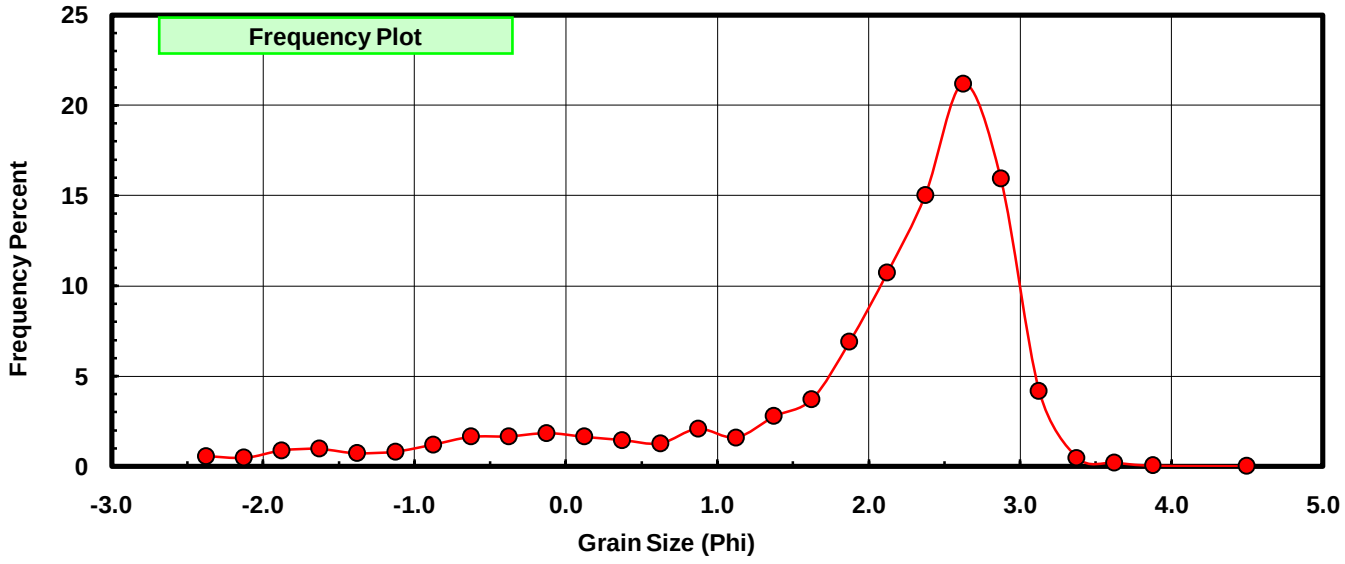
Statistical Explanation

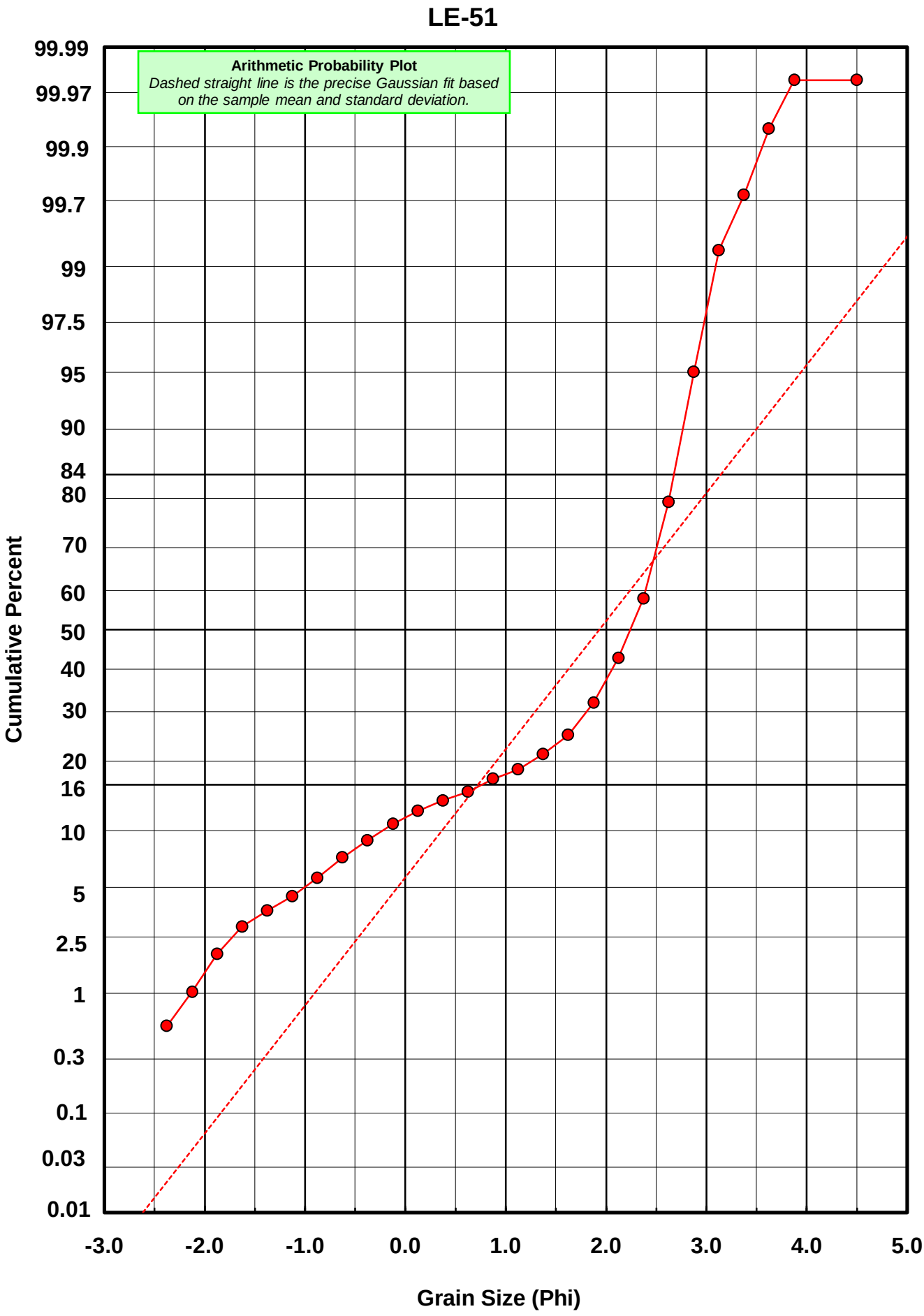
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-51
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-51

Total Carbonate Mass: 16.397 grams

% Carbonate: 24.2 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.376	2.293	2.293
-2.00	-2.125	0.318	1.939	4.232
-1.75	-1.875	0.588	3.586	7.819
-1.50	-1.625	0.649	3.958	11.777
-1.25	-1.375	0.485	2.958	14.734
-1.00	-1.125	0.538	3.281	18.015
-0.75	-0.875	0.797	4.861	22.876
-0.50	-0.625	1.096	6.684	29.560
-0.25	-0.375	1.113	6.788	36.348
0.00	-0.125	1.223	7.459	43.807
0.25	0.125	1.094	6.672	50.479
0.50	0.375	0.949	5.788	56.266
0.75	0.625	0.828	5.050	61.316
1.00	0.875	1.226	7.477	68.793
1.25	1.125	0.717	4.373	73.166
1.50	1.375	0.926	5.647	78.813
1.75	1.625	0.570	3.476	82.289
2.00	1.875	0.522	3.184	85.473
2.25	2.125	0.868	5.294	90.767
2.50	2.375	0.000	0.000	90.767
2.75	2.625	0.348	2.122	92.889
3.00	2.875	0.781	4.763	97.652
3.25	3.125	0.342	2.086	99.738
3.50	3.375	0.020	0.122	99.860
3.75	3.625	0.014	0.085	99.945
4.00	3.875	0.004	0.024	99.970
5.00	4.500	0.005	0.030	100.000

Statistical Results			
Mean:	0.3260	phi	(0.7977 mm)
Standard Dev:	1.4529	phi-units	(0.3653 mm)
Skewness:	0.1300	dimensionless	
Kurtosis:	2.1639	dimensionless	
5th Moment:	0.6494	dimensionless	
6th Moment:	6.0552	dimensionless	
RARD *	4.4568	dimensionless	
Median	0.1071	phi	(0.9285 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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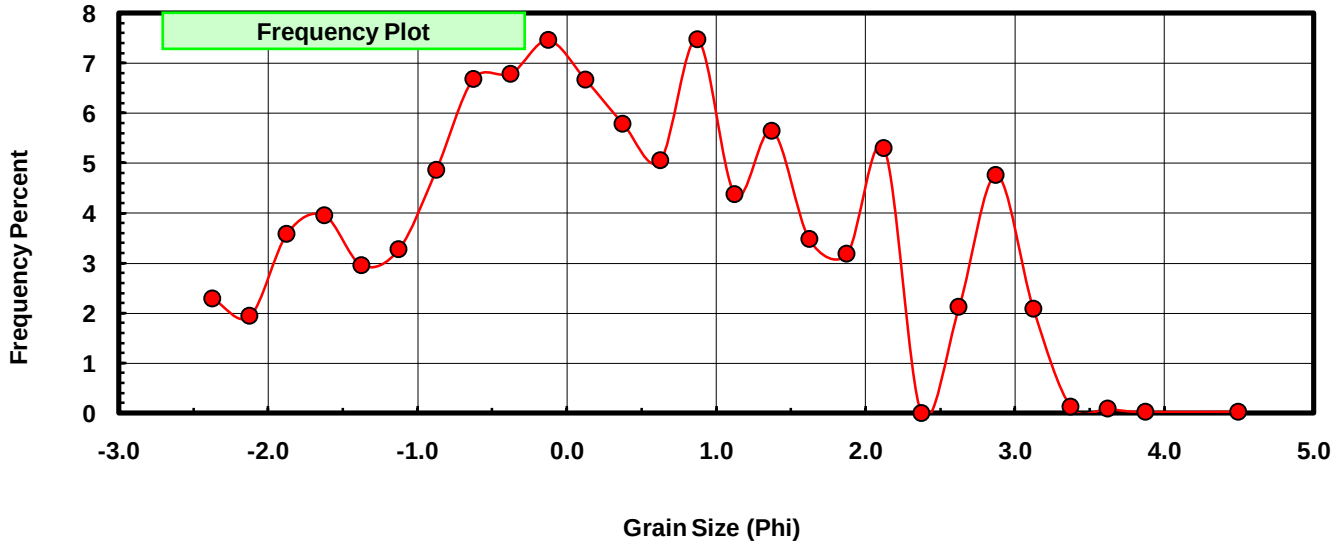

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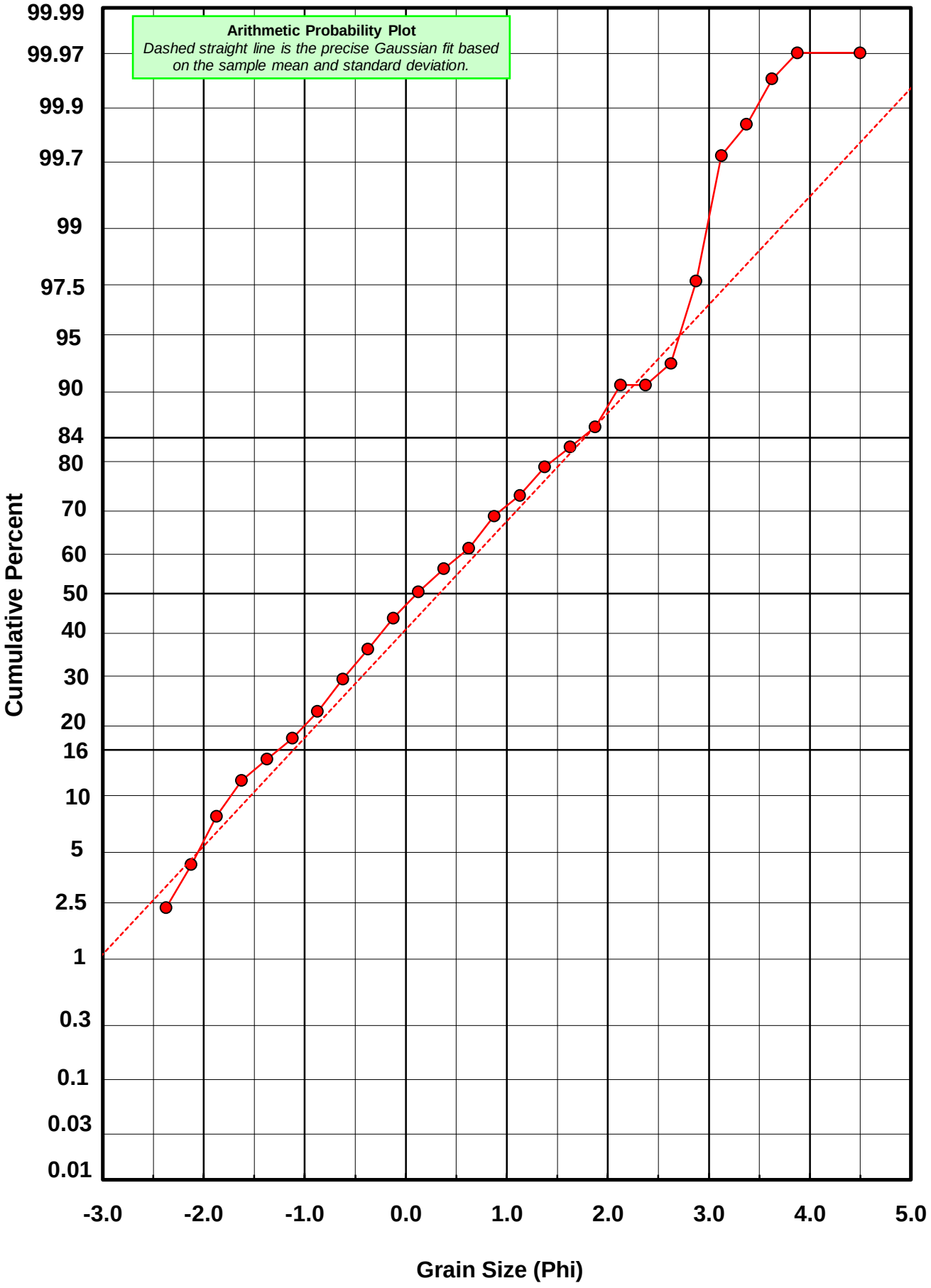
Arithmetic Probability Plot
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Cumulative Percent
99.99
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99
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20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-51

Total Digested Mass: 50.701 grams

% Silica: 75.8 %

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	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.021	0.041	0.041
0.75	0.625	0.023	0.045	0.087
1.00	0.875	0.168	0.331	0.418
1.25	1.125	0.348	0.686	1.105
1.50	1.375	0.927	1.828	2.933
1.75	1.625	1.919	3.785	6.718
2.00	1.875	4.103	8.093	14.810
2.25	2.125	6.312	12.449	27.260
2.50	2.375	10.241	20.199	47.459
2.75	2.625	13.835	27.287	74.746
3.00	2.875	9.879	19.485	94.231
3.25	3.125	2.457	4.846	99.077
3.50	3.375	0.313	0.617	99.694
3.75	3.625	0.118	0.233	99.927
4.00	3.875	0.027	0.053	99.980
5.00	4.500	0.010	0.020	100.000

Statistical Results			
Mean:	2.4539	phi	(0.1825 mm)
Standard Dev:	0.4374	phi-units	(0.7385 mm)
Skewness:	-0.7075	dimensionless	
Kurtosis:	3.8649	dimensionless	
5th Moment:	-6.6915	dimensionless	
6th Moment:	31.7697	dimensionless	
RARD *	0.1782	dimensionless	
Median	2.3983	phi	(0.1897 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

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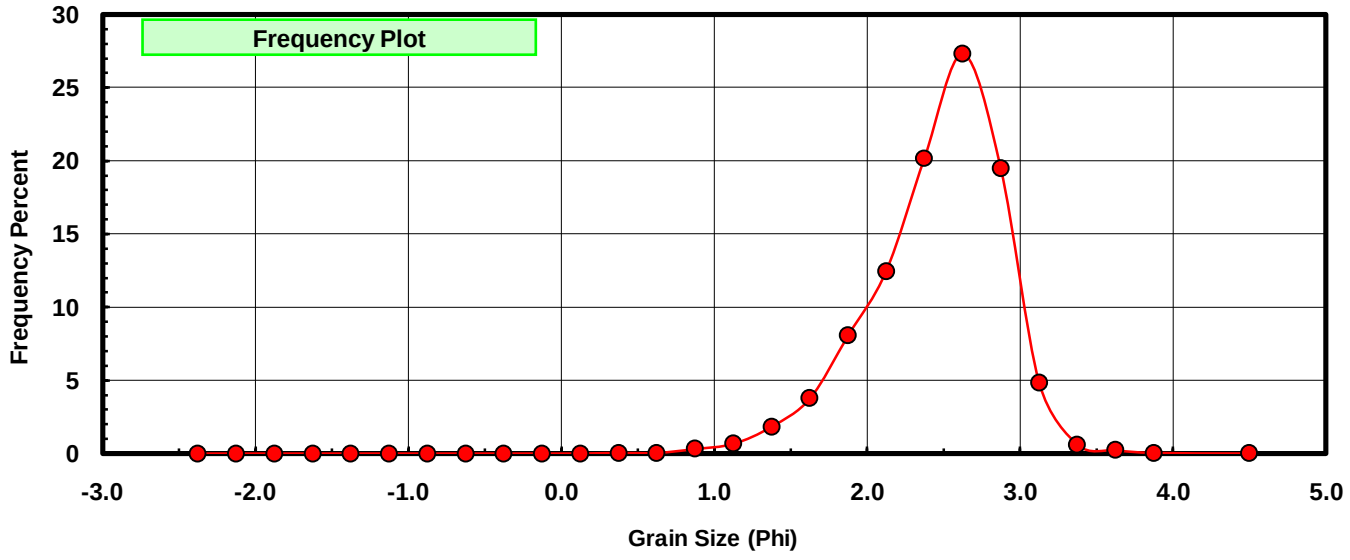

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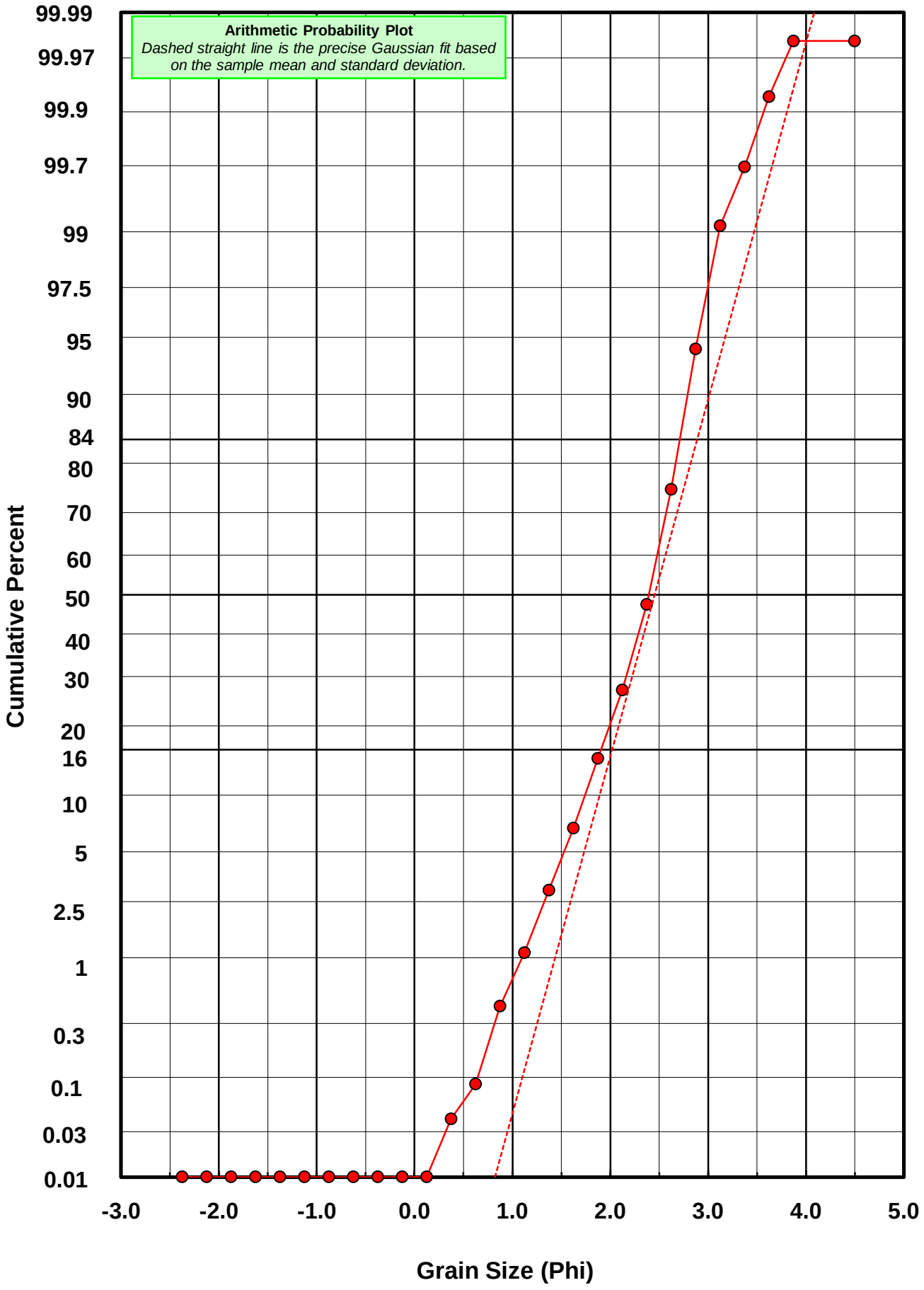
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1.0
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3.0
4.0
5.0
Grain Size (Phi)