Onshore Grab Sample

Sample: LE-14
Sample Taken By: D. Phelps
Sample Collected On: 11/8/09
Splits? N/A

County: Lee
Latitude: 26° 36' 49.9"
Longitude: 82° 13' 24.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	60.149	grams
Total Fines in Sample	0.182	grams
Total Percent Fines	0.30	%

Dry Sieving Summary

Total Sample Weight	60.043	grams
Total Digested Weight	27.125	grams
Total Carbonate Weight	32.918	grams
Total Silica %	45.18	%
Total Carbonate %	54.82	%
Carbonate/Silica Ratio	1.214	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-14

Total Sample Mass: 60.043 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	6.965	11.600	11.600
-2.00	-2.125	1.393	2.320	13.920
-1.75	-1.875	2.009	3.346	17.266
-1.50	-1.625	1.693	2.820	20.086
-1.25	-1.375	1.620	2.698	22.784
-1.00	-1.125	1.624	2.705	25.488
-0.75	-0.875	1.631	2.716	28.205
-0.50	-0.625	2.082	3.468	31.672
-0.25	-0.375	1.967	3.276	34.948
0.00	-0.125	1.846	3.074	38.023
0.25	0.125	1.758	2.928	40.951
0.50	0.375	1.694	2.821	43.772
0.75	0.625	1.951	3.249	47.021
1.00	0.875	2.651	4.415	51.436
1.25	1.125	1.816	3.024	54.461
1.50	1.375	2.504	4.170	58.631
1.75	1.625	2.564	4.270	62.902
2.00	1.875	3.894	6.485	69.387
2.25	2.125	4.849	8.076	77.463
2.50	2.375	4.660	7.761	85.224
2.75	2.625	4.811	8.013	93.237
3.00	2.875	3.031	5.048	98.285
3.25	3.125	0.896	1.492	99.777
3.50	3.375	0.105	0.175	99.952
3.75	3.625	0.014	0.023	99.975
4.00	3.875	0.006	0.010	99.985
5.00	4.50	0.009	0.015	100.000

Statistical Results			
Mean:	0.5589	phi	(0.6788 mm)
Standard Dev:	1.8088	phi-units	(0.2854 mm)
Skewness:	-0.3448	dimensionless	
Kurtosis:	1.6877	dimensionless	
5th Moment:	-1.2004	dimensionless	
6th Moment:	3.4696	dimensionless	
RARD *	3.2362	dimensionless	
Median	0.7937	phi	(0.5769 mm)

* RARD = reciprocal absolute relative dispersion (see below)

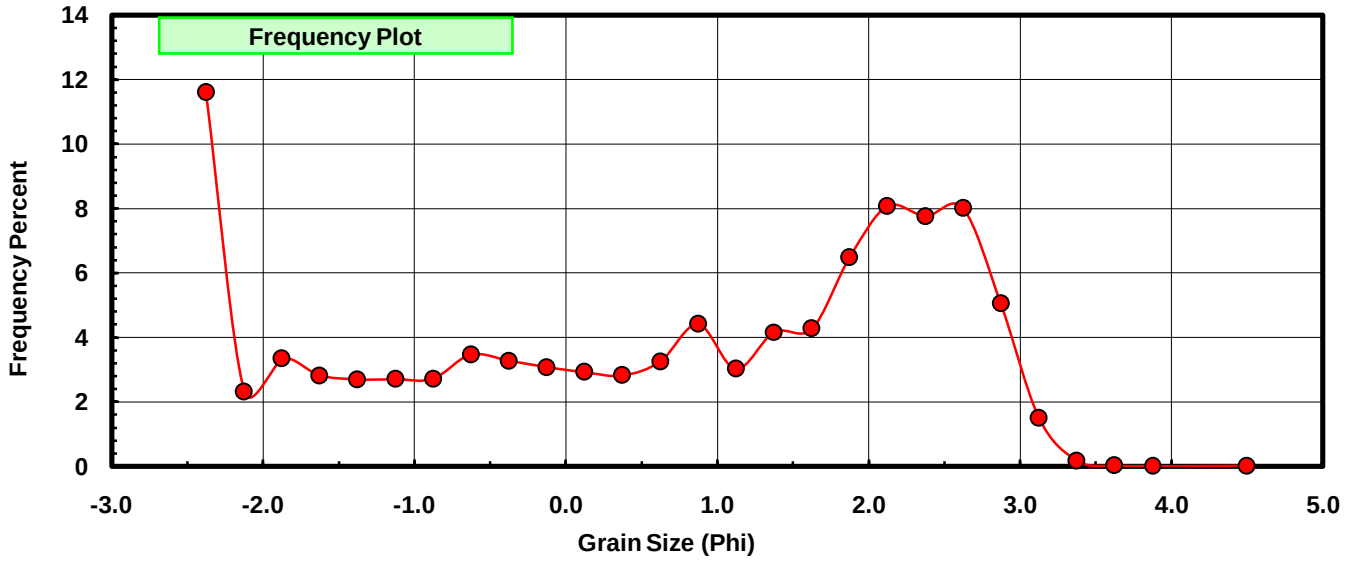
Statistical Explanation

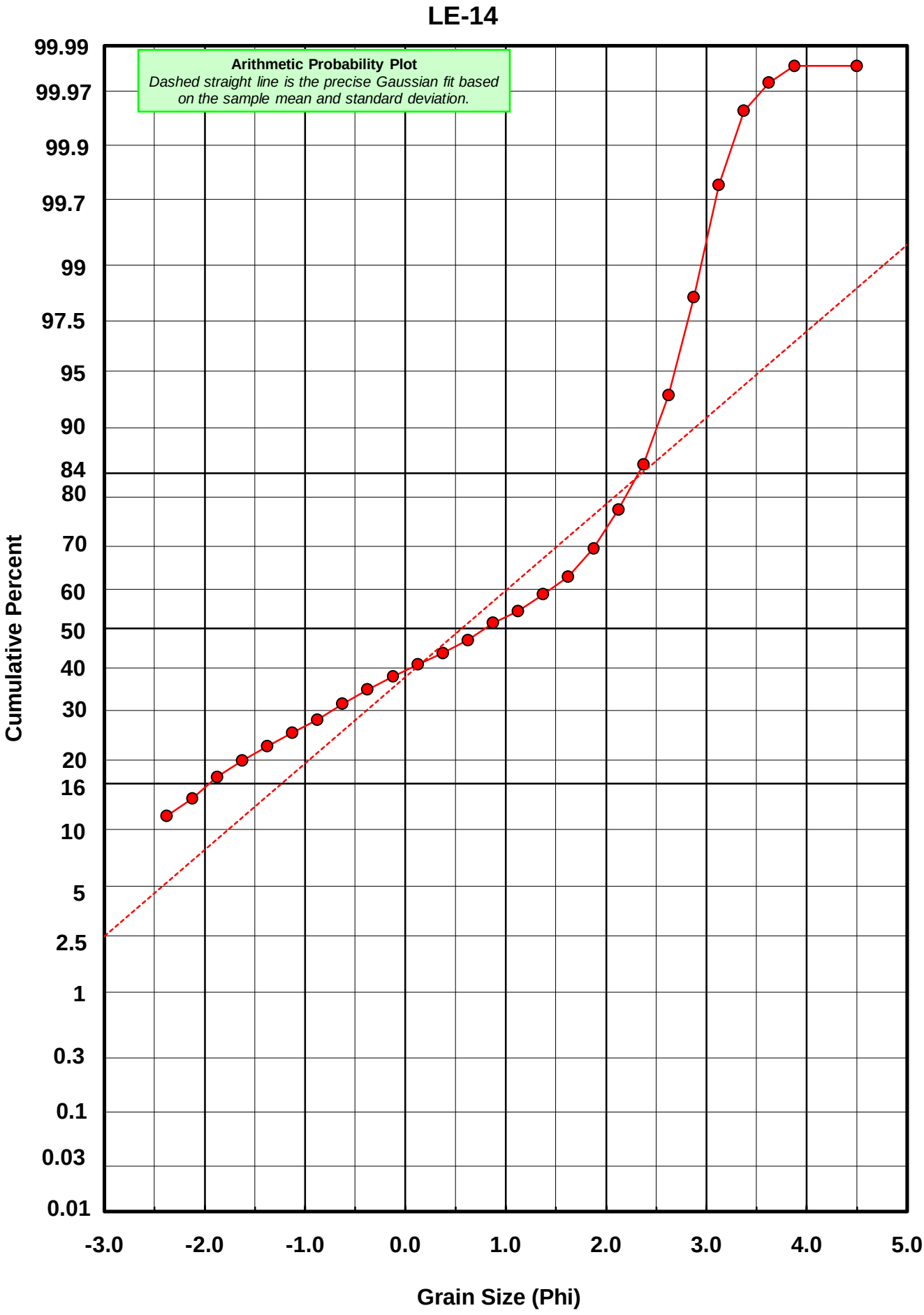
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-14
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-14

Total Carbonate Mass: 33.052 grams

% Carbonate: 54.8 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	6.965	21.073	21.073
-2.00	-2.125	1.393	4.215	25.287
-1.75	-1.875	2.009	6.078	31.366
-1.50	-1.625	1.693	5.122	36.488
-1.25	-1.375	1.620	4.901	41.389
-1.00	-1.125	1.608	4.865	46.254
-0.75	-0.875	1.631	4.935	51.189
-0.50	-0.625	2.054	6.214	57.403
-0.25	-0.375	1.874	5.670	63.073
0.00	-0.125	1.713	5.183	68.256
0.25	0.125	1.549	4.687	72.943
0.50	0.375	1.384	4.187	77.130
0.75	0.625	1.549	4.687	81.817
1.00	0.875	1.751	5.298	87.114
1.25	1.125	0.935	2.829	89.943
1.50	1.375	1.089	3.295	93.238
1.75	1.625	0.573	1.734	94.972
2.00	1.875	0.383	1.159	96.130
2.25	2.125	0.598	1.809	97.940
2.50	2.375	0.145	0.439	98.378
2.75	2.625	0.510	1.543	99.921
3.00	2.875	0.000	0.000	99.921
3.25	3.125	0.023	0.070	99.991
3.50	3.375	0.000	0.000	99.991
3.75	3.625	0.000	0.000	99.991
4.00	3.875	0.000	0.000	99.991
5.00	4.500	0.003	0.009	100.000

Statistical Results			
Mean:	-0.7029	phi	(1.6278 mm)
Standard Dev:	1.4109	phi-units	(0.3761 mm)
Skewness:	0.4366	dimensionless	
Kurtosis:	2.1216	dimensionless	
5th Moment:	2.5231	dimensionless	
6th Moment:	7.0741	dimensionless	
RARD *	2.0071	dimensionless	
Median	-0.9352	phi	(1.9122 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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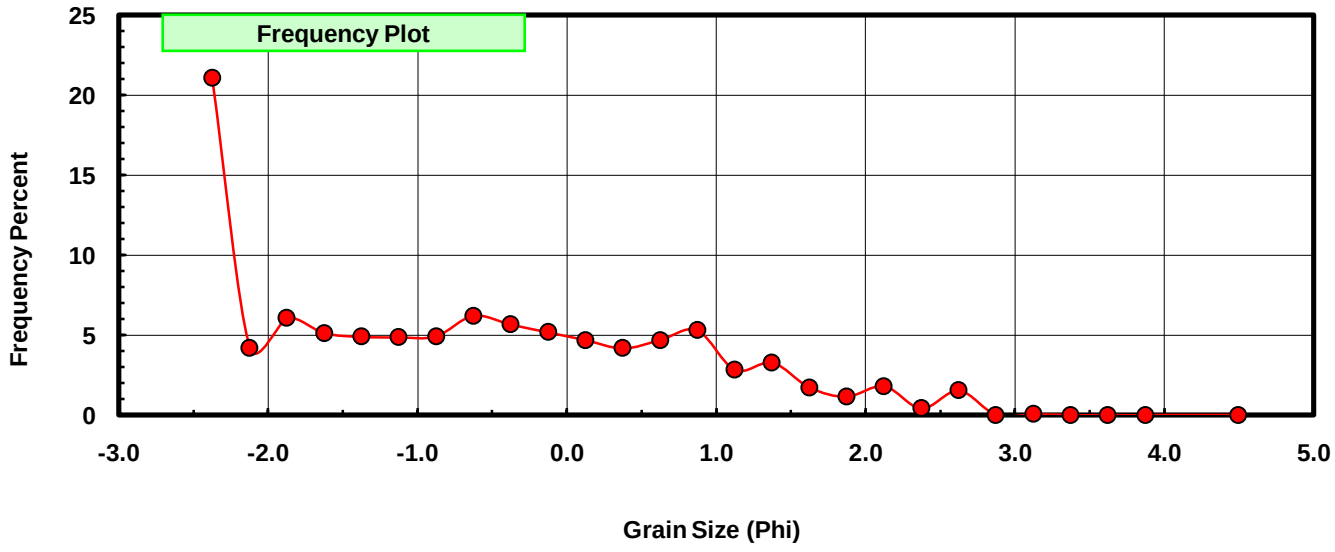

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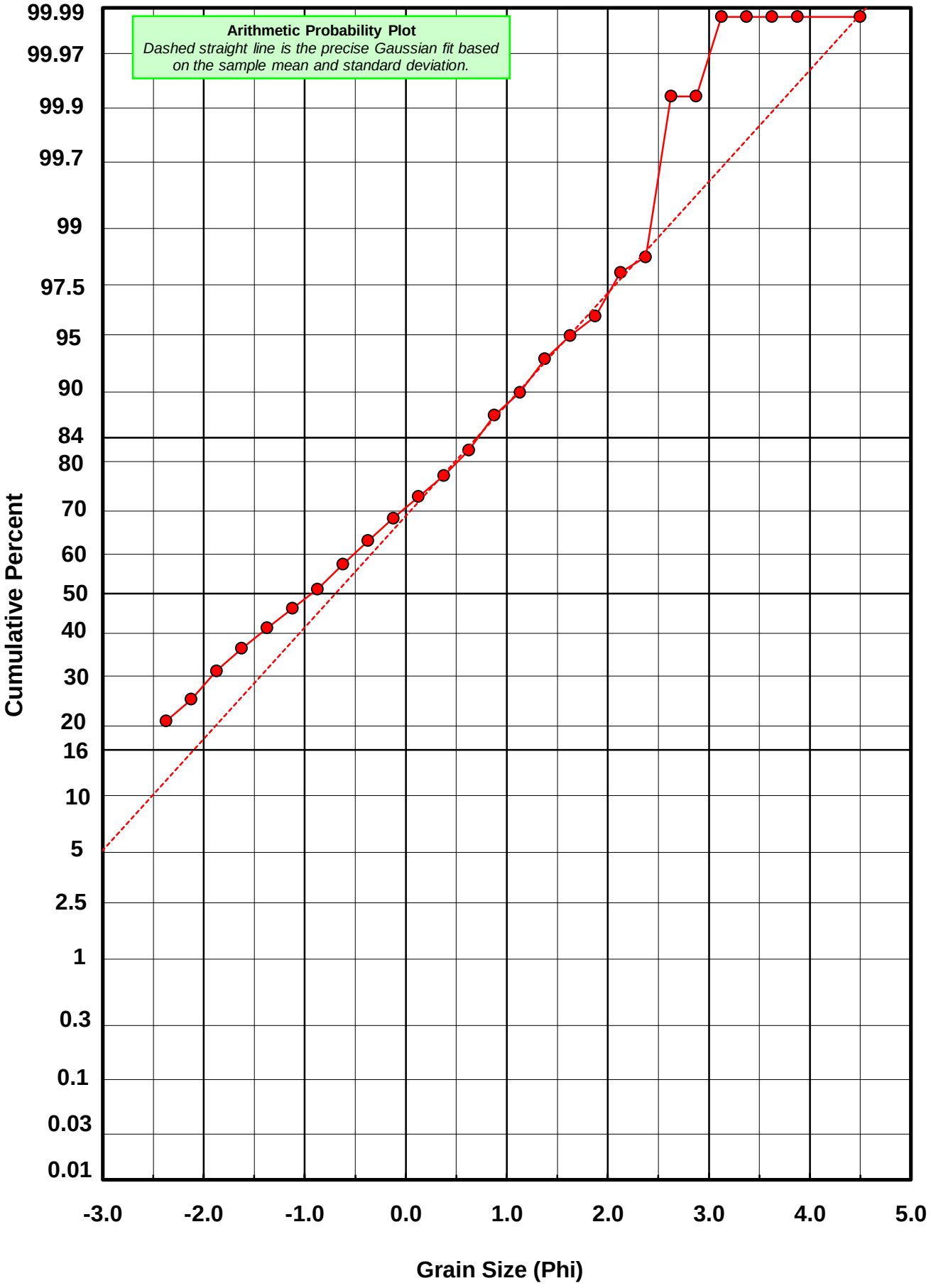
Arithmetic Probability Plot
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Cumulative Percent
99.99
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16
10
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2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-14

Total Digested Mass: 27.125 grams

% Silica: 45.2 %

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	0.016	0.059	0.059
-0.75	-0.875	0.000	0.000	0.059
-0.50	-0.625	0.028	0.103	0.162
-0.25	-0.375	0.093	0.343	0.505
0.00	-0.125	0.133	0.490	0.995
0.25	0.125	0.209	0.771	1.766
0.50	0.375	0.310	1.143	2.909
0.75	0.625	0.402	1.482	4.391
1.00	0.875	0.900	3.318	7.709
1.25	1.125	0.881	3.248	10.957
1.50	1.375	1.415	5.217	16.173
1.75	1.625	1.991	7.340	23.513
2.00	1.875	3.511	12.944	36.457
2.25	2.125	4.251	15.672	52.129
2.50	2.375	4.515	16.645	68.774
2.75	2.625	4.301	15.856	84.630
3.00	2.875	3.120	11.502	96.133
3.25	3.125	0.873	3.218	99.351
3.50	3.375	0.142	0.524	99.875
3.75	3.625	0.019	0.070	99.945
4.00	3.875	0.009	0.033	99.978
5.00	4.500	0.006	0.022	100.000

Statistical Results			
Mean:	2.1089	phi	(0.2318 mm)
Standard Dev:	0.6898	phi-units	(0.62 mm)
Skewness:	-0.9869	dimensionless	
Kurtosis:	4.1730	dimensionless	
5th Moment:	-10.0200	dimensionless	
6th Moment:	36.2244	dimensionless	
RARD *	0.3271	dimensionless	
Median	2.0910	phi	(0.2347 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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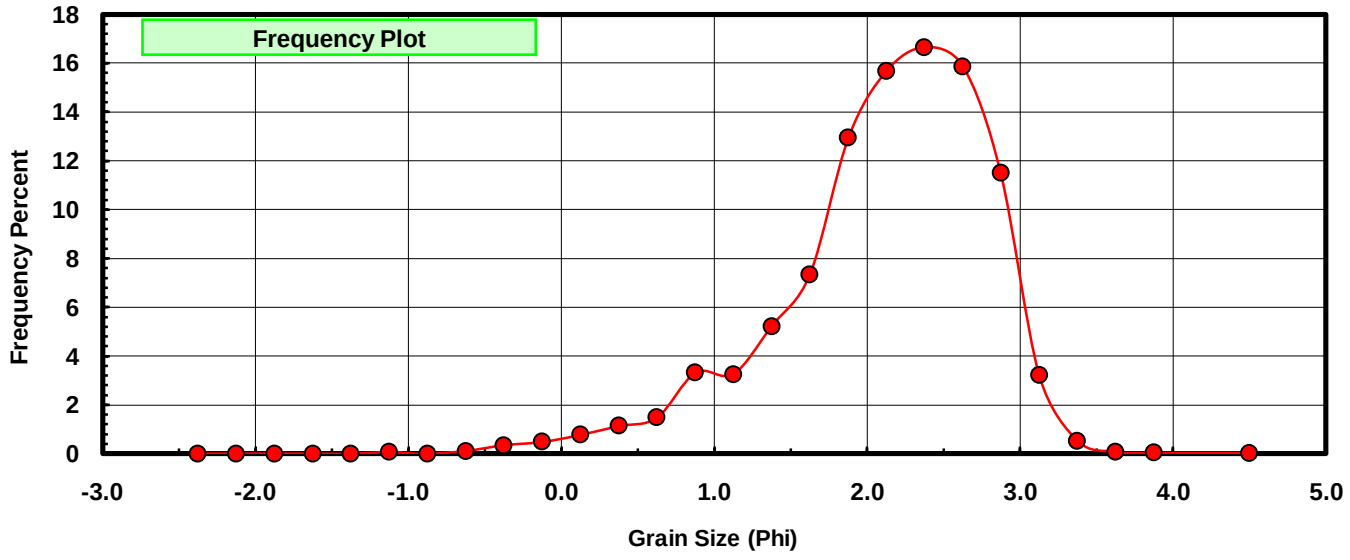

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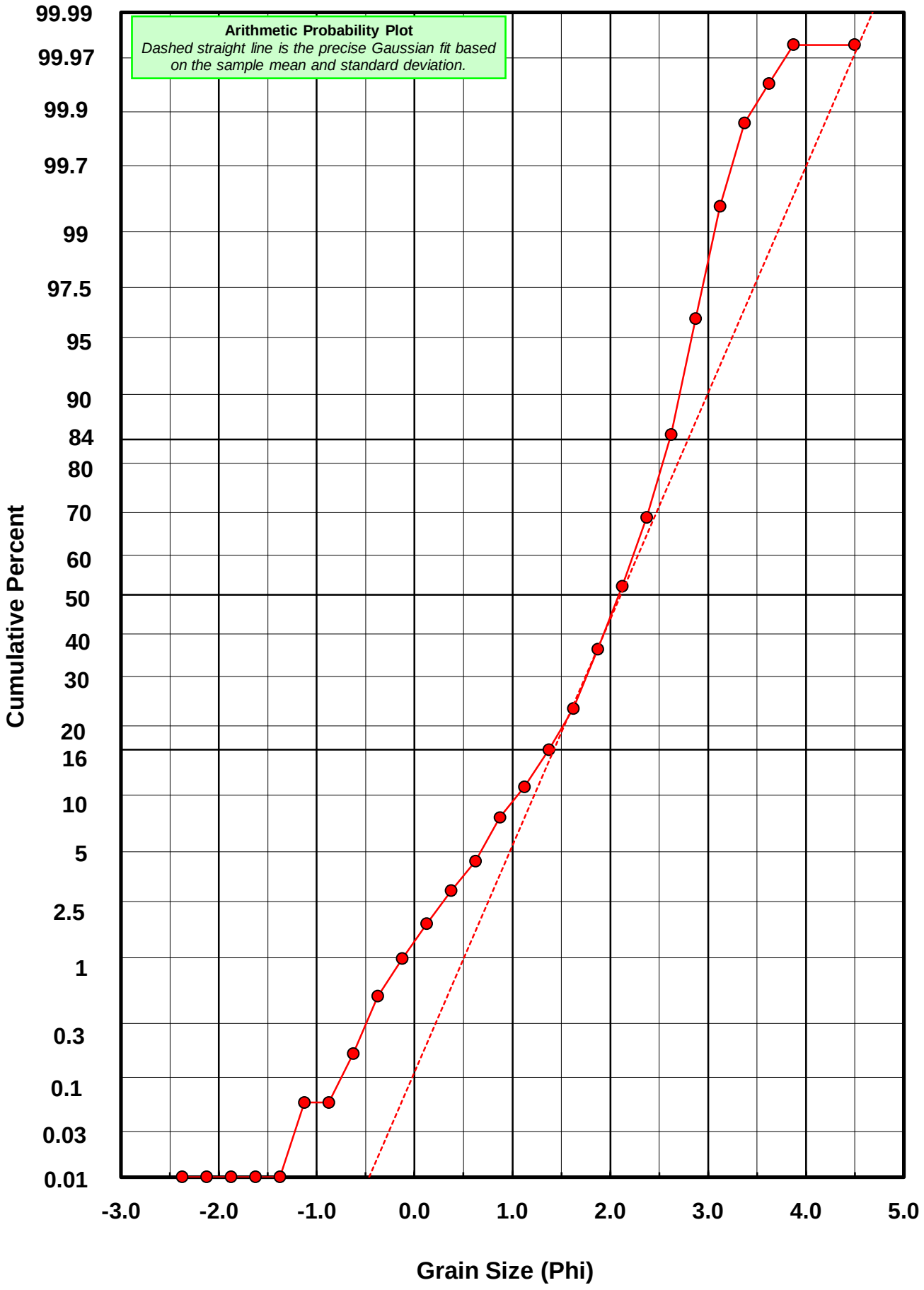
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Grain Size (Phi)