

Onshore Grab Sample

Sample: LE-17
Sample Taken By: D. Phelps
Sample Collected On: 11/7/09
Splits? N/A

County: Lee
Latitude: 26° 34' 51.9"
Longitude: 82° 12' 58"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 56.955 grams
Total Fines in Sample 0.098 grams
Total Percent Fines 0.17 %

Dry Sieving Summary

Total Sample Weight 56.834 grams
Total Digested Weight 33.227 grams
Total Carbonate Weight 23.607 grams
Total Silica % 58.46 %
Total Carbonate % 41.54 %
Carbonate/Silica Ratio 0.710

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-17

Total Sample Mass: 56.834 grams

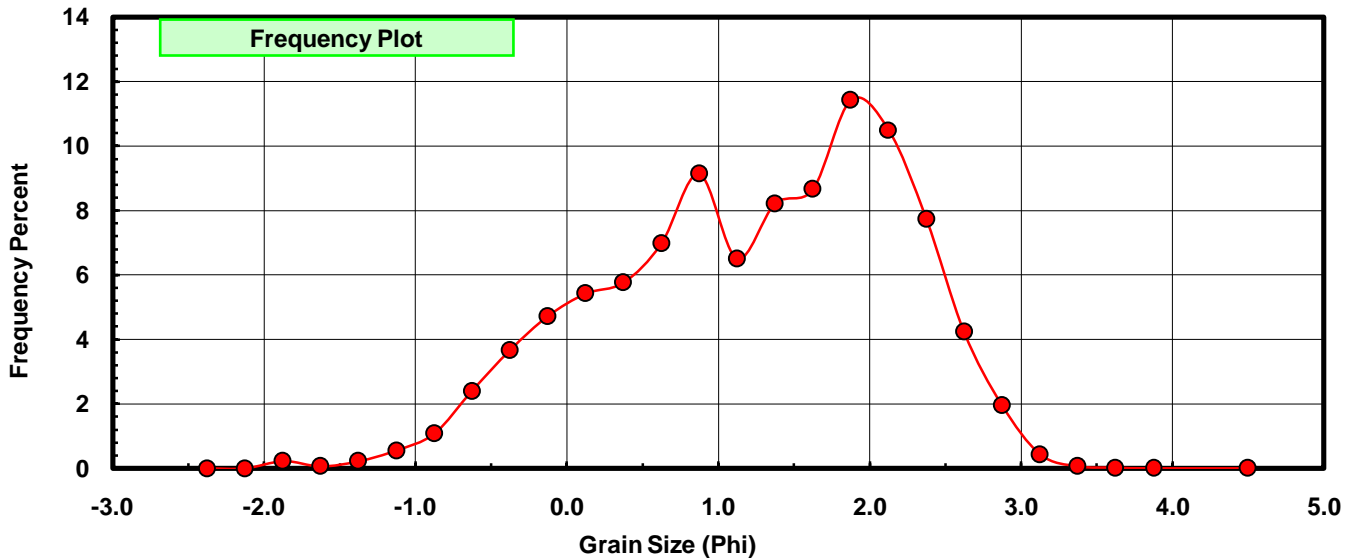
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.126	0.222	0.222
-1.50	-1.625	0.036	0.063	0.285
-1.25	-1.375	0.125	0.220	0.505
-1.00	-1.125	0.313	0.551	1.056
-0.75	-0.875	0.610	1.073	2.129
-0.50	-0.625	1.361	2.395	4.524
-0.25	-0.375	2.085	3.669	8.192
0.00	-0.125	2.683	4.721	12.913
0.25	0.125	3.085	5.428	18.341
0.50	0.375	3.278	5.768	24.109
0.75	0.625	3.965	6.976	31.085
1.00	0.875	5.196	9.142	40.228
1.25	1.125	3.697	6.505	46.733
1.50	1.375	4.668	8.213	54.946
1.75	1.625	4.922	8.660	63.606
2.00	1.875	6.493	11.424	75.031
2.25	2.125	5.970	10.504	85.535
2.50	2.375	4.399	7.740	93.275
2.75	2.625	2.407	4.235	97.510
3.00	2.875	1.113	1.958	99.469
3.25	3.125	0.247	0.435	99.903
3.50	3.375	0.035	0.062	99.965
3.75	3.625	0.011	0.019	99.984
4.00	3.875	0.003	0.005	99.989
5.00	4.50	0.006	0.011	100.000

Statistical Results			
Mean:	1.2262	phi	(0.4274 mm)
Standard Dev:	0.9752	phi-units	(0.5087 mm)
Skewness:	-0.3945	dimensionless	
Kurtosis:	2.4191	dimensionless	
5th Moment:	-2.5375	dimensionless	
6th Moment:	9.7565	dimensionless	
RARD *	0.7953	dimensionless	
Median	1.2245	phi	(0.428 mm)

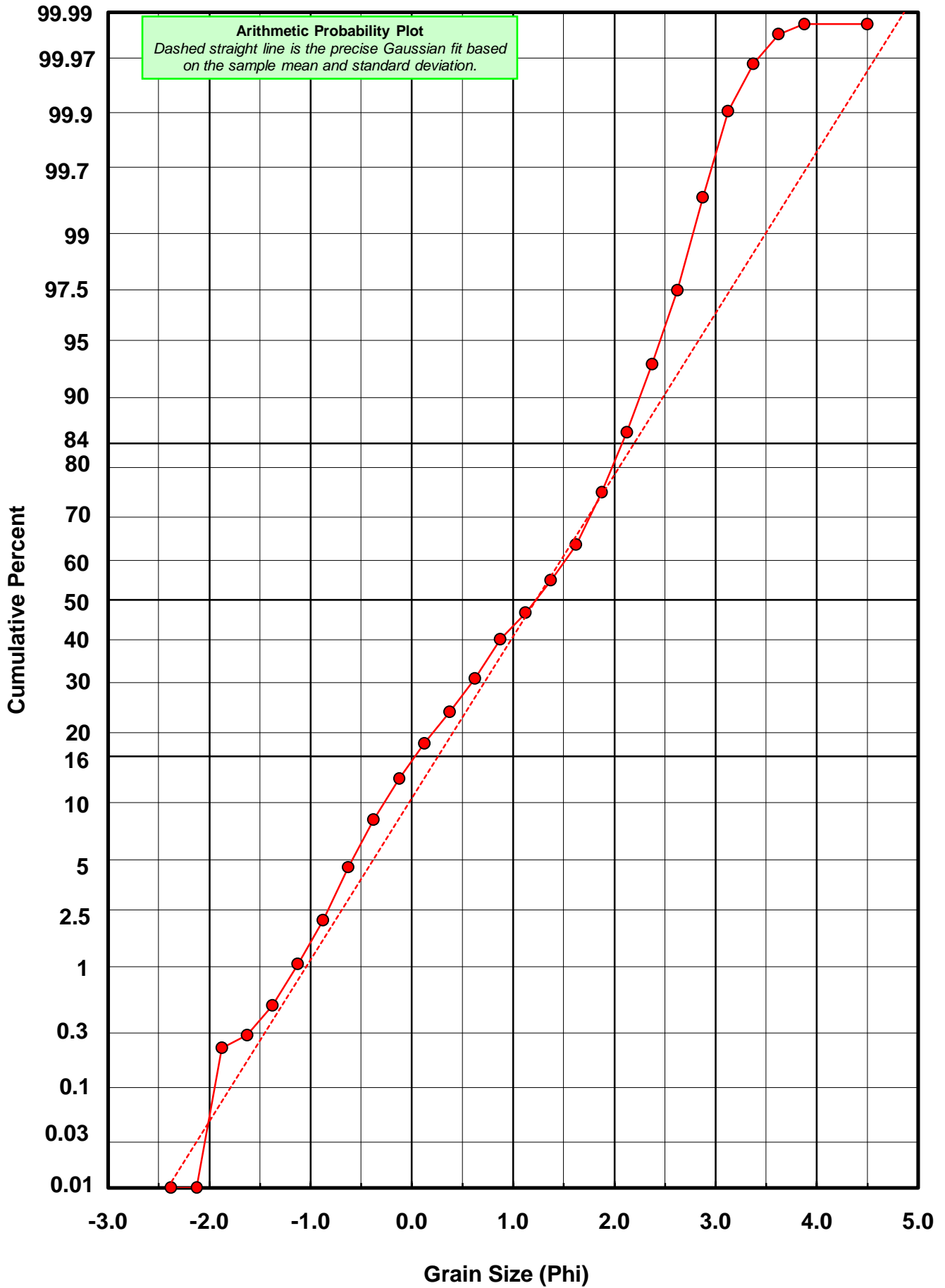
* RARD = reciprocal absolute relative dispersion (see below)

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-17



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: LE-17

Total Carbonate Mass: 23.636 grams

% Carbonate: 41.5 %

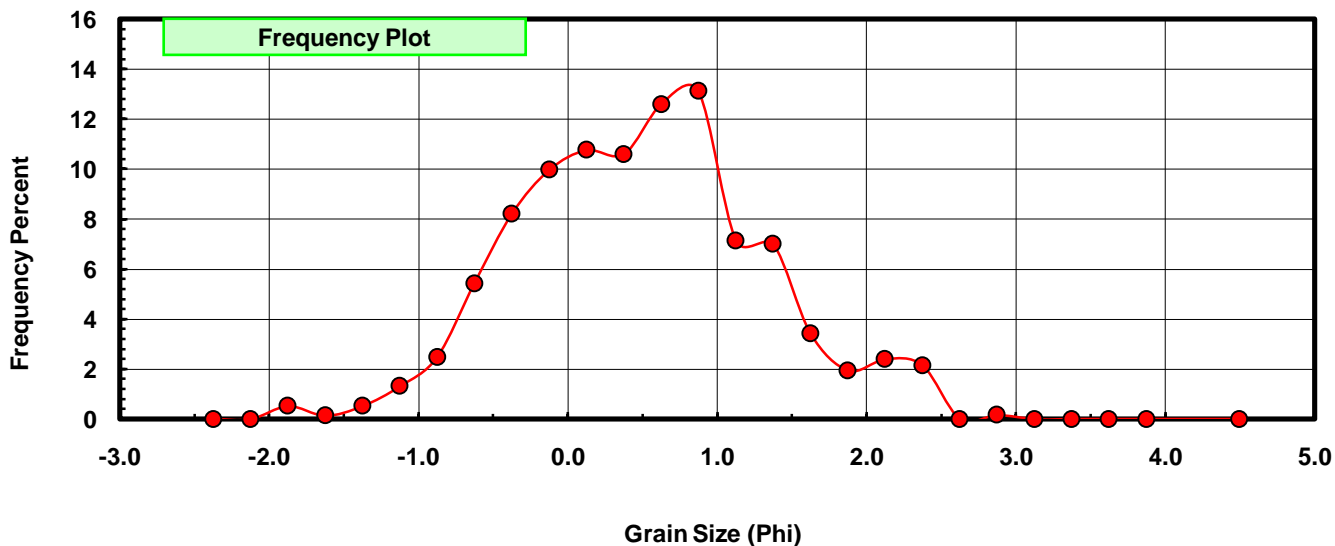
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.126	0.533	0.533
-1.50	-1.625	0.036	0.152	0.685
-1.25	-1.375	0.125	0.529	1.214
-1.00	-1.125	0.313	1.324	2.539
-0.75	-0.875	0.587	2.483	5.022
-0.50	-0.625	1.285	5.437	10.459
-0.25	-0.375	1.942	8.216	18.675
0.00	-0.125	2.357	9.972	28.647
0.25	0.125	2.544	10.763	39.410
0.50	0.375	2.506	10.602	50.013
0.75	0.625	2.978	12.599	62.612
1.00	0.875	3.102	13.124	75.736
1.25	1.125	1.688	7.142	82.878
1.50	1.375	1.657	7.010	89.888
1.75	1.625	0.813	3.440	93.328
2.00	1.875	0.460	1.946	95.274
2.25	2.125	0.568	2.403	97.677
2.50	2.375	0.508	2.149	99.827
2.75	2.625	0.000	0.000	99.827
3.00	2.875	0.040	0.169	99.996
3.25	3.125	0.000	0.000	99.996
3.50	3.375	0.000	0.000	99.996
3.75	3.625	0.000	0.000	99.996
4.00	3.875	0.000	0.000	99.996
5.00	4.500	0.001	0.004	100.000

Statistical Results			
Mean:	0.4895	phi	(0.7123 mm)
Standard Dev:	0.8279	phi-units	(0.5634 mm)
Skewness:	0.1051	dimensionless	
Kurtosis:	2.8429	dimensionless	
5th Moment:	0.5273	dimensionless	
6th Moment:	12.9500	dimensionless	
RARD *	1.6914	dimensionless	
Median	0.3747	phi	(0.7713 mm)

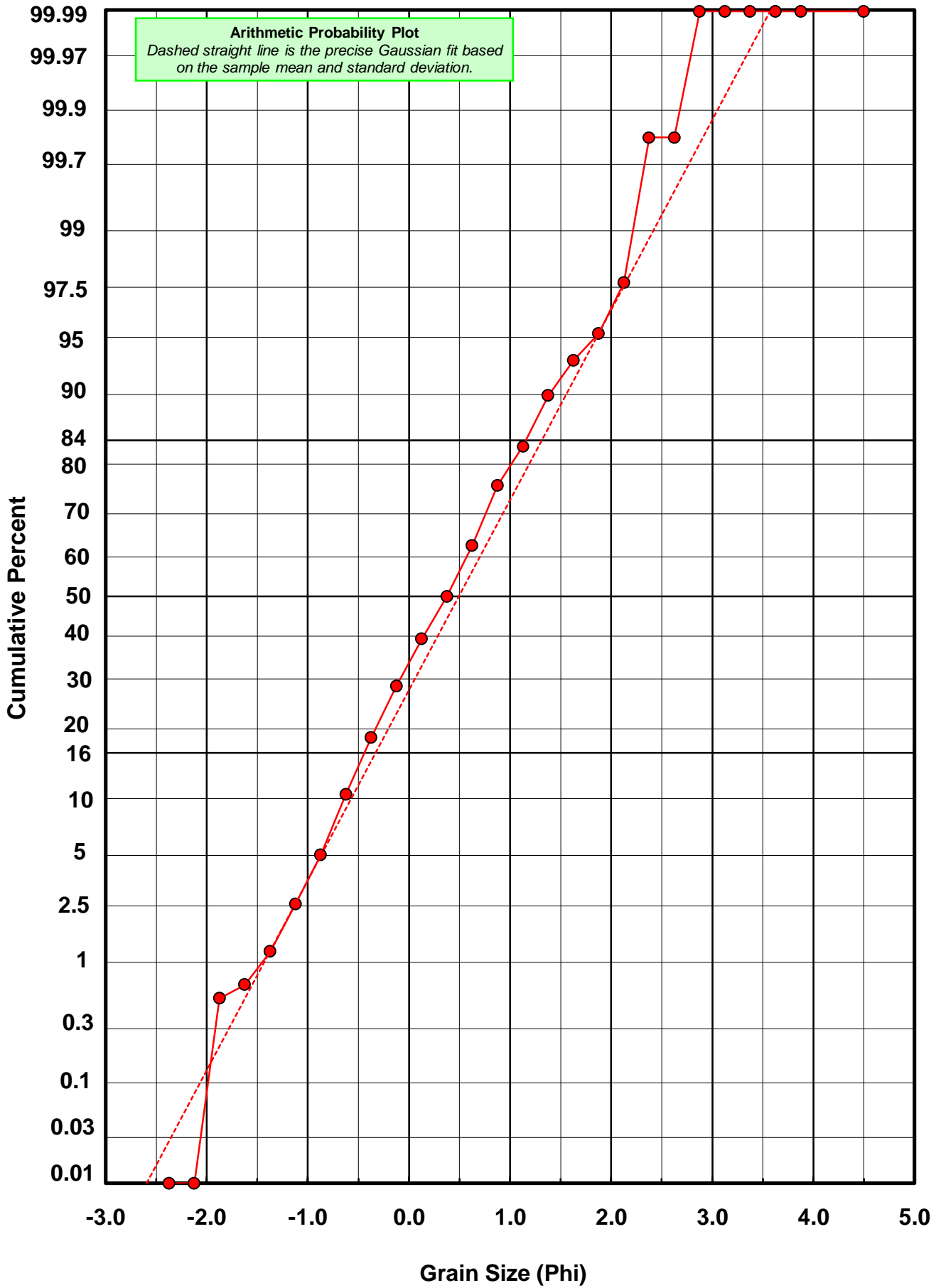
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Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-17

Total Digested Mass: 33.227 grams

% Silica: 58.5 %

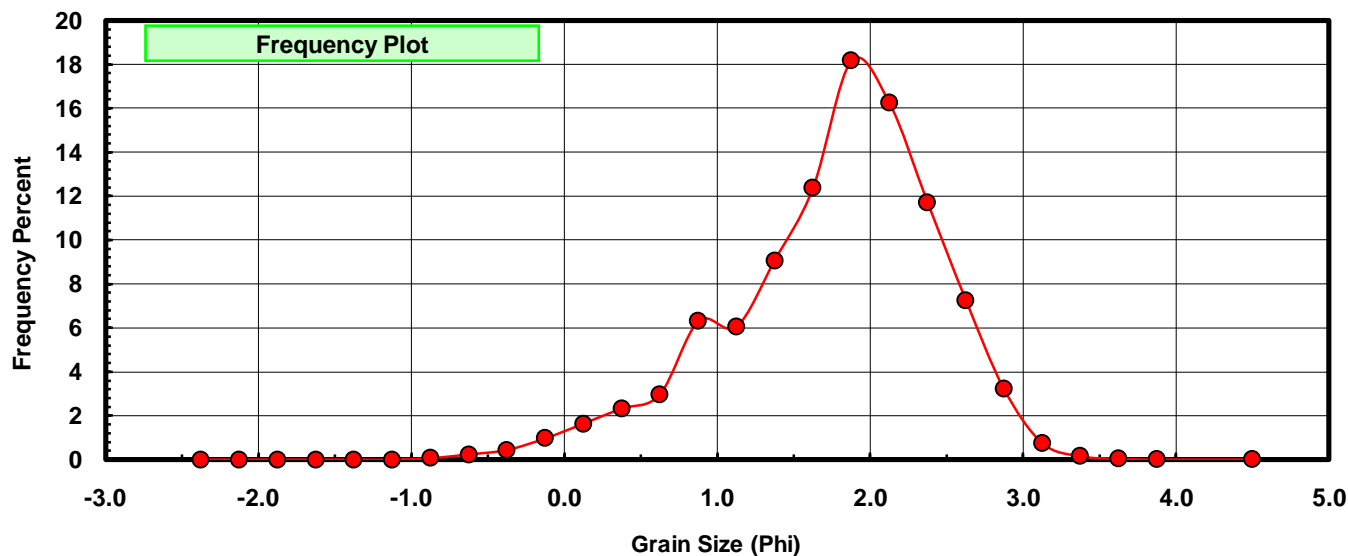
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-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.023	0.069	0.069
-0.50	-0.625	0.076	0.229	0.298
-0.25	-0.375	0.143	0.430	0.728
0.00	-0.125	0.326	0.981	1.709
0.25	0.125	0.541	1.628	3.338
0.50	0.375	0.772	2.323	5.661
0.75	0.625	0.987	2.970	8.632
1.00	0.875	2.094	6.302	14.934
1.25	1.125	2.009	6.046	20.980
1.50	1.375	3.011	9.062	30.042
1.75	1.625	4.109	12.366	42.408
2.00	1.875	6.033	18.157	60.565
2.25	2.125	5.402	16.258	76.823
2.50	2.375	3.891	11.710	88.533
2.75	2.625	2.408	7.247	95.781
3.00	2.875	1.073	3.229	99.010
3.25	3.125	0.253	0.761	99.771
3.50	3.375	0.052	0.156	99.928
3.75	3.625	0.014	0.042	99.970
4.00	3.875	0.005	0.015	99.985
5.00	4.500	0.005	0.015	100.000

Statistical Results			
Mean:	1.7521	phi	(0.2969 mm)
Standard Dev:	0.6978	phi-units	(0.6165 mm)
Skewness:	-0.6701	dimensionless	
Kurtosis:	3.3876	dimensionless	
5th Moment:	-5.4179	dimensionless	
6th Moment:	20.5642	dimensionless	
RARD *	0.3983	dimensionless	
Median	1.7295	phi	(0.3016 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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