

Onshore Grab Sample

Sample: SL-10-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/16/08
Splits? N/A

County: St. Lucie
Latitude: 27° 26' 11.5"
Longitude: 80° 16' 42.9"
Datum: WGS 84
Surf. Elev: 0
Datum: N/A

Fine Data Summary

Total Sample Weight 68.543 grams
Total Fines in Sample 0.140 grams
Total Percent Fines 0.20 %

Dry Sieving Summary

Total Sample Weight 68.444 grams
Total Digested Weight 18.018 grams
Total Carbonate Weight 50.426 grams
Total Silica % 26.33 %
Total Carbonate % 73.67 %
Carbonate/Silica Ratio 2.799

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-10-BB

Total Sample Mass: 68.444 grams

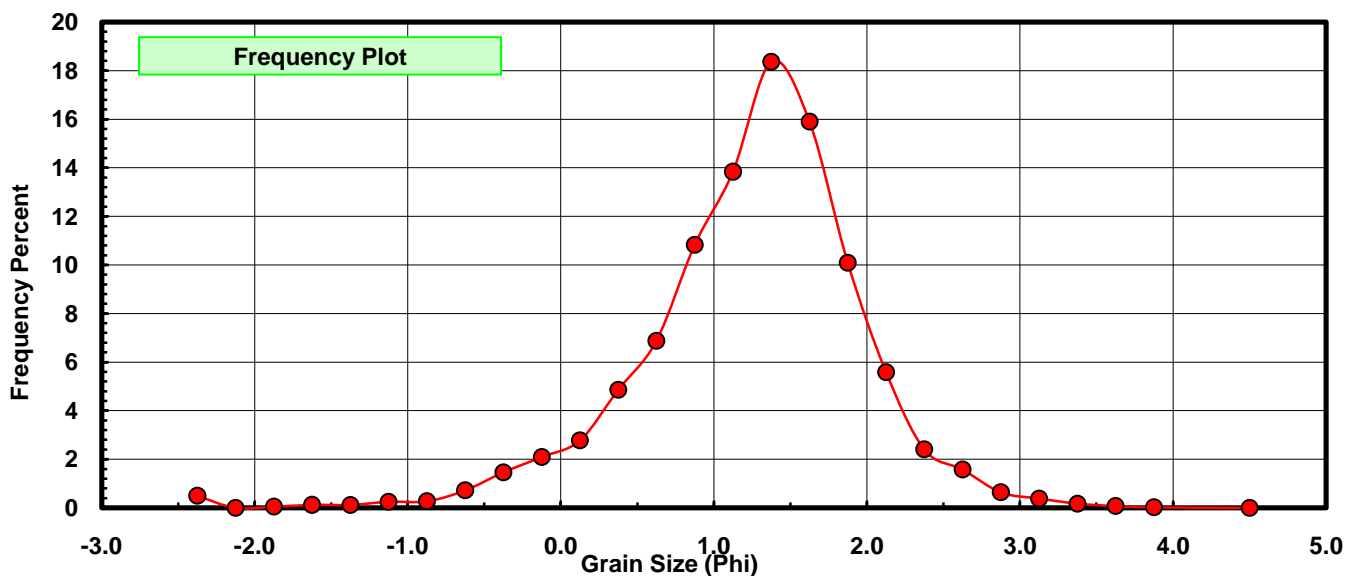
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.341	0.498	0.498
-2.00	-2.125	0.000	0.000	0.498
-1.75	-1.875	0.032	0.047	0.545
-1.50	-1.625	0.085	0.124	0.669
-1.25	-1.375	0.084	0.123	0.792
-1.00	-1.125	0.172	0.251	1.043
-0.75	-0.875	0.186	0.272	1.315
-0.50	-0.625	0.492	0.719	2.034
-0.25	-0.375	1.001	1.463	3.496
0.00	-0.125	1.434	2.095	5.591
0.25	0.125	1.900	2.776	8.367
0.50	0.375	3.325	4.858	13.225
0.75	0.625	4.708	6.879	20.104
1.00	0.875	7.410	10.826	30.930
1.25	1.125	9.473	13.841	44.771
1.50	1.375	12.571	18.367	63.138
1.75	1.625	10.881	15.898	79.035
2.00	1.875	6.905	10.089	89.124
2.25	2.125	3.826	5.590	94.714
2.50	2.375	1.647	2.406	97.120
2.75	2.625	1.082	1.581	98.701
3.00	2.875	0.438	0.640	99.341
3.25	3.125	0.264	0.386	99.727
3.50	3.375	0.121	0.177	99.904
3.75	3.625	0.051	0.075	99.978
4.00	3.875	0.015	0.022	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	1.2383	phi	(0.4239 mm)
Standard Dev:	0.7451	phi-units	(0.5966 mm)
Skewness:	-0.9160	dimensionless	
Kurtosis:	6.0108	dimensionless	
5th Moment:	-17.1902	dimensionless	
6th Moment:	88.4462	dimensionless	
RARD *	0.6017	dimensionless	
Median	1.1962	phi	(0.4364 mm)

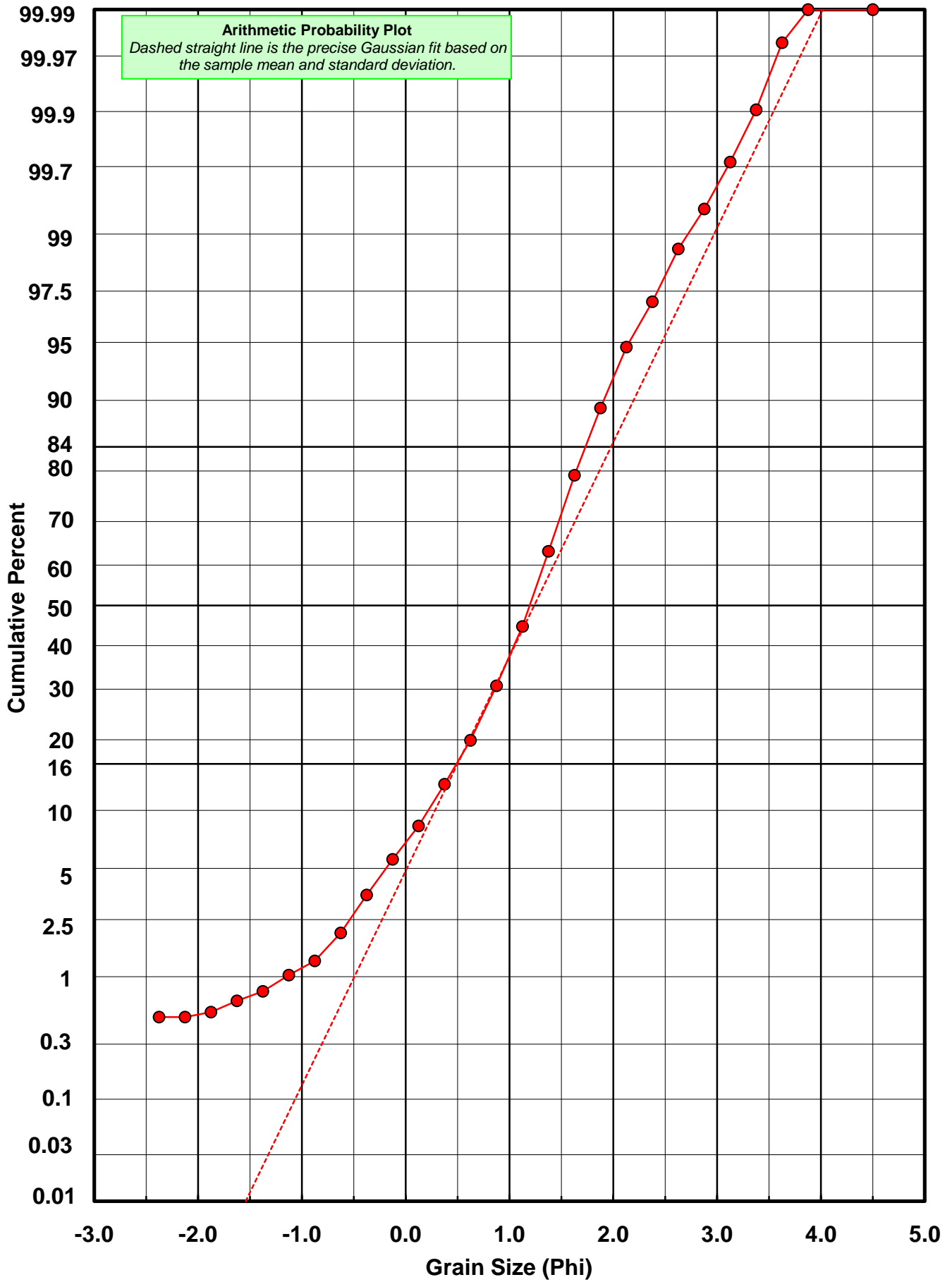
* RARD = reciprocal absolute relative dispersion (see below)

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)



SL-10-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SL-10-BB

Total Carbonate Mass: 50.460 grams

% Carbonate: 73.7 %

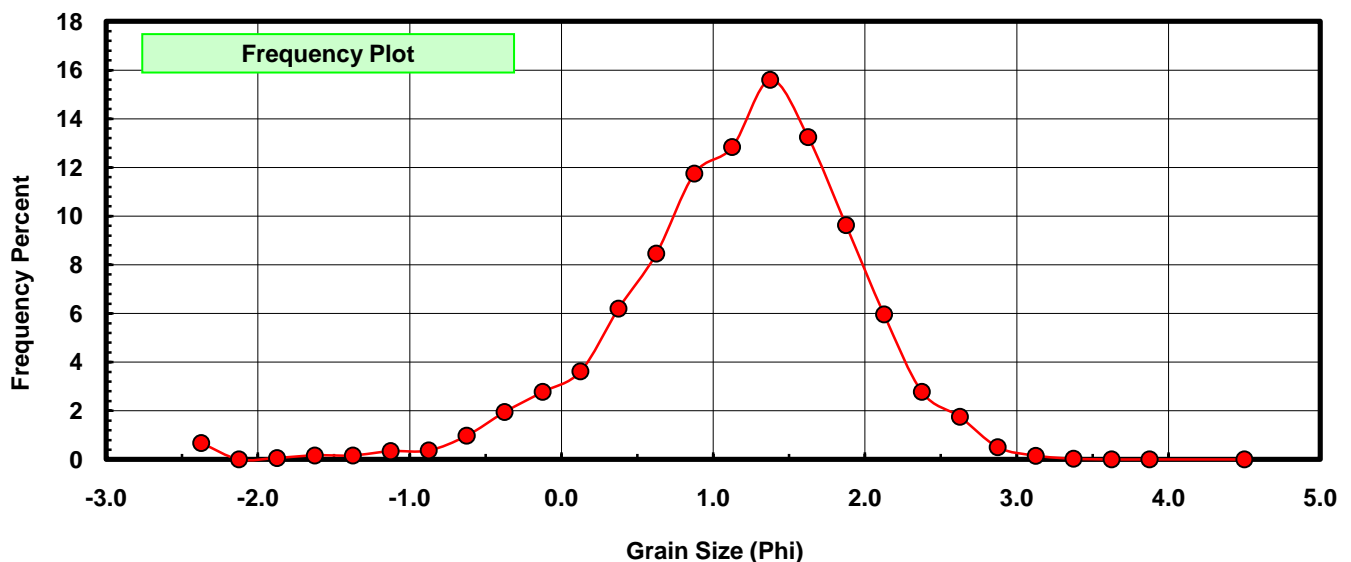
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.341	0.676	0.676
-2.00	-2.125	0.000	0.000	0.676
-1.75	-1.875	0.032	0.063	0.739
-1.50	-1.625	0.085	0.168	0.908
-1.25	-1.375	0.084	0.166	1.074
-1.00	-1.125	0.172	0.341	1.415
-0.75	-0.875	0.186	0.369	1.784
-0.50	-0.625	0.492	0.975	2.759
-0.25	-0.375	0.983	1.948	4.707
0.00	-0.125	1.400	2.774	7.481
0.25	0.125	1.827	3.621	11.102
0.50	0.375	3.127	6.197	17.299
0.75	0.625	4.270	8.462	25.761
1.00	0.875	5.926	11.744	37.505
1.25	1.125	6.478	12.838	50.343
1.50	1.375	7.873	15.602	65.945
1.75	1.625	6.683	13.244	79.189
2.00	1.875	4.859	9.629	88.819
2.25	2.125	3.009	5.963	94.782
2.50	2.375	1.402	2.778	97.560
2.75	2.625	0.883	1.750	99.310
3.00	2.875	0.254	0.503	99.814
3.25	3.125	0.079	0.157	99.970
3.50	3.375	0.015	0.030	100.000
3.75	3.625	0.000	0.000	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.1510	phi	(0.4503 mm)
Standard Dev:	0.7967	phi-units	(0.5757 mm)
Skewness:	-0.9202	dimensionless	
Kurtosis:	5.2479	dimensionless	
5th Moment:	-14.9475	dimensionless	
6th Moment:	66.7474	dimensionless	
RARD *	0.6922	dimensionless	
Median	1.1183	phi	(0.4606 mm)

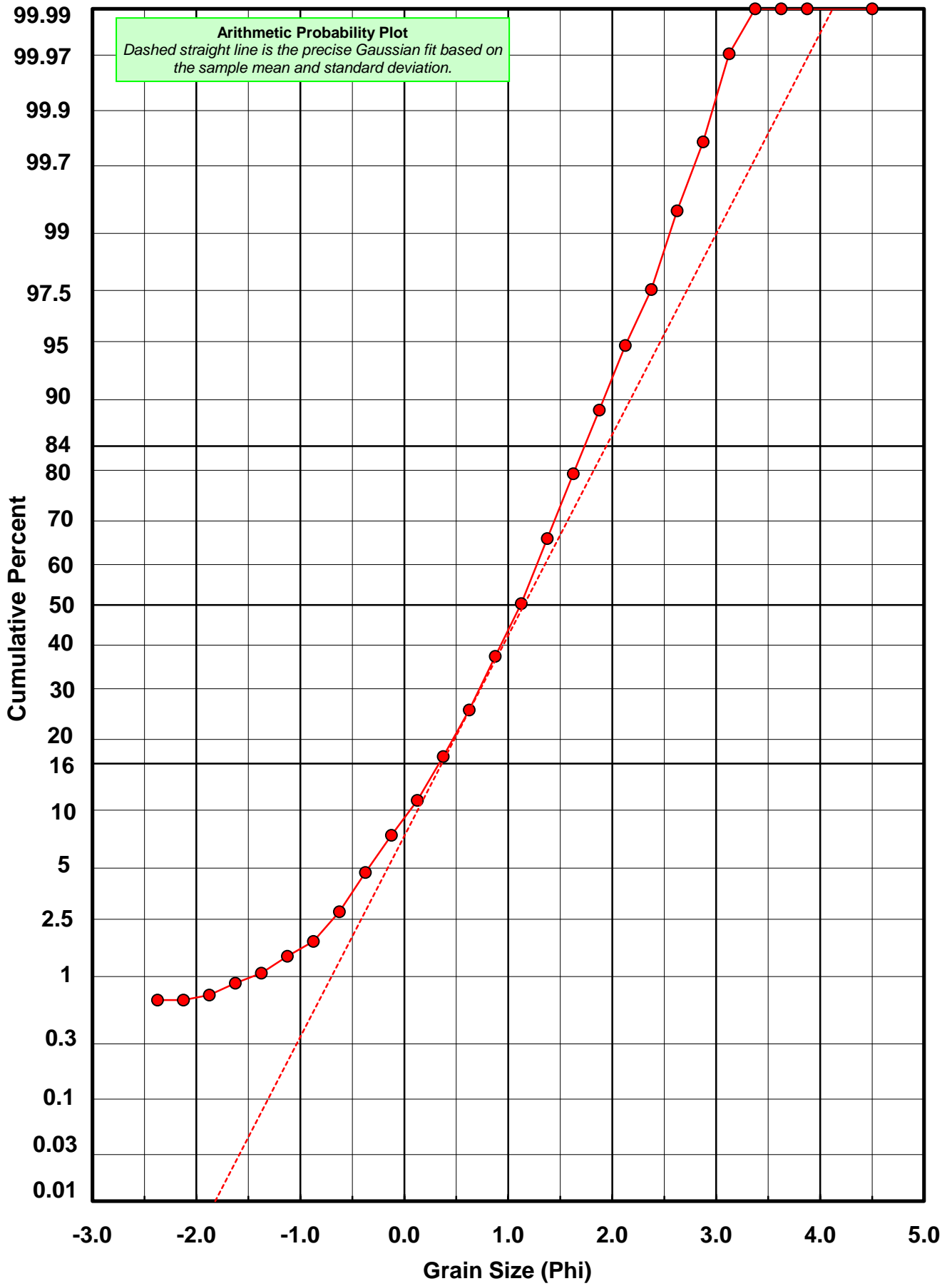
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Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{(-\phi)}$	

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SL-10-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-10-BB

Total Digested Mass: 18.018 grams

% Silica: 26.3 %

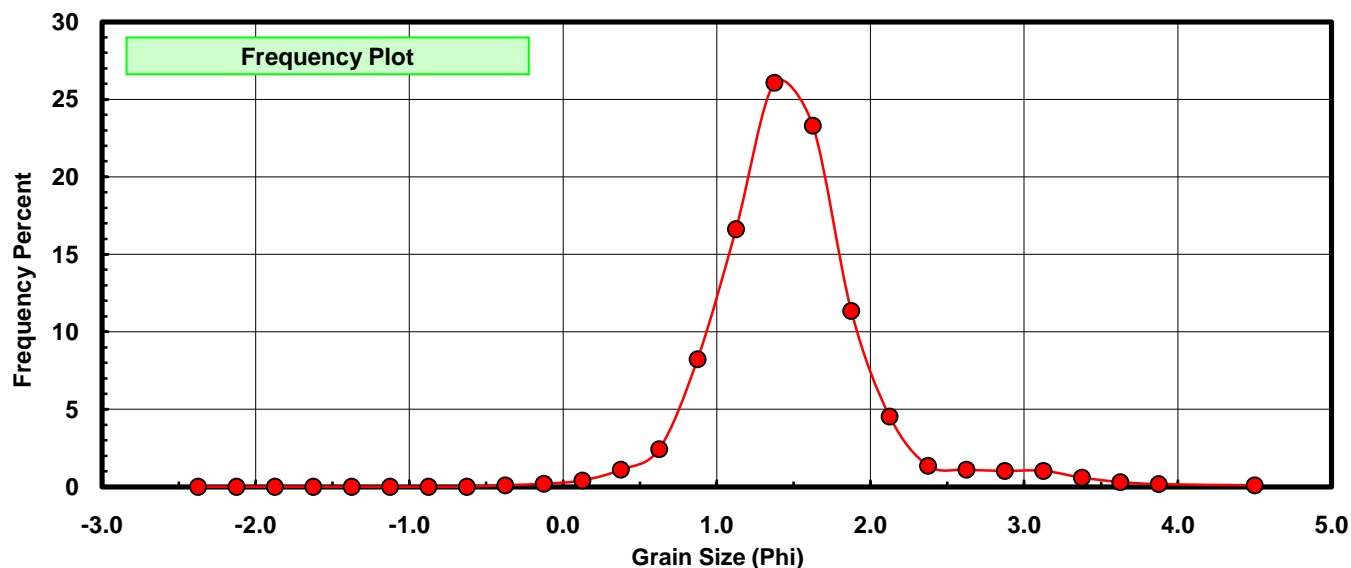
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.018	0.100	0.100
0.00	-0.125	0.034	0.189	0.289
0.25	0.125	0.073	0.405	0.694
0.50	0.375	0.198	1.099	1.793
0.75	0.625	0.438	2.431	4.224
1.00	0.875	1.484	8.236	12.460
1.25	1.125	2.995	16.622	29.082
1.50	1.375	4.698	26.074	55.156
1.75	1.625	4.198	23.299	78.455
2.00	1.875	2.046	11.355	89.810
2.25	2.125	0.817	4.534	94.345
2.50	2.375	0.245	1.360	95.704
2.75	2.625	0.199	1.104	96.809
3.00	2.875	0.184	1.021	97.830
3.25	3.125	0.185	1.027	98.857
3.50	3.375	0.106	0.588	99.445
3.75	3.625	0.054	0.300	99.745
4.00	3.875	0.030	0.167	99.911
5.00	4.500	0.016	0.089	100.000

Statistical Results			
Mean:	1.4886	phi	(0.3564 mm)
Standard Dev:	0.5326	phi-units	(0.6913 mm)
Skewness:	1.0474	dimensionless	
Kurtosis:	6.5288	dimensionless	
5th Moment:	18.0078	dimensionless	
6th Moment:	90.9631	dimensionless	
RARD *	0.3578	dimensionless	
Median	1.3256	phi	(0.399 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 $mm = 2^{(-\phi)}$	

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