

Onshore Grab Sample

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

County: St. Lucie
Latitude: 27° 24' 40.8"
Longitude: 80° 16' 07.4"
Datum: WGS 84
Surf. Elev: 0
Datum: N/A

Fine Data Summary

Total Sample Weight 60.643 grams
Total Fines in Sample 0.156 grams
Total Percent Fines 0.26 %

Dry Sieving Summary

Total Sample Weight 60.503 grams
Total Digested Weight 13.851 grams
Total Carbonate Weight 46.652 grams
Total Silica % 22.89 %
Total Carbonate % 77.11 %
Carbonate/Silica Ratio 3.368

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-12-BB

Total Sample Mass: 60.503 grams

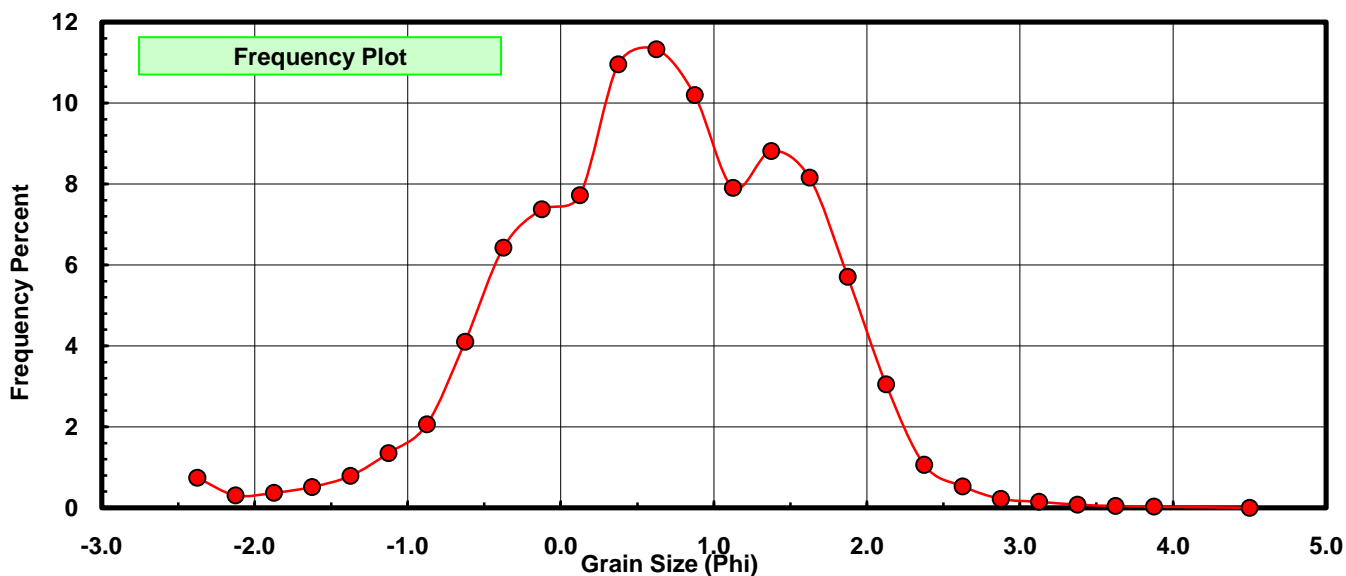
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.450	0.744	0.744
-2.00	-2.125	0.186	0.307	1.051
-1.75	-1.875	0.223	0.369	1.420
-1.50	-1.625	0.312	0.516	1.935
-1.25	-1.375	0.476	0.787	2.722
-1.00	-1.125	0.819	1.354	4.076
-0.75	-0.875	1.246	2.059	6.135
-0.50	-0.625	2.483	4.104	10.239
-0.25	-0.375	3.889	6.428	16.667
0.00	-0.125	4.463	7.376	24.043
0.25	0.125	4.673	7.724	31.767
0.50	0.375	6.628	10.955	42.722
0.75	0.625	6.855	11.330	54.052
1.00	0.875	6.168	10.195	64.246
1.25	1.125	4.784	7.907	72.153
1.50	1.375	5.333	8.814	80.968
1.75	1.625	4.934	8.155	89.123
2.00	1.875	3.453	5.707	94.830
2.25	2.125	1.847	3.053	97.883
2.50	2.375	0.643	1.063	98.946
2.75	2.625	0.322	0.532	99.478
3.00	2.875	0.134	0.221	99.699
3.25	3.125	0.090	0.149	99.848
3.50	3.375	0.047	0.078	99.926
3.75	3.625	0.027	0.045	99.970
4.00	3.875	0.018	0.030	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	0.6384	phi	(0.6424 mm)
Standard Dev:	0.9335	phi-units	(0.5236 mm)
Skewness:	-0.3454	dimensionless	
Kurtosis:	3.2683	dimensionless	
5th Moment:	-3.5631	dimensionless	
6th Moment:	19.7450	dimensionless	
RARD *	1.4622	dimensionless	
Median	0.5356	phi	(0.6899 mm)

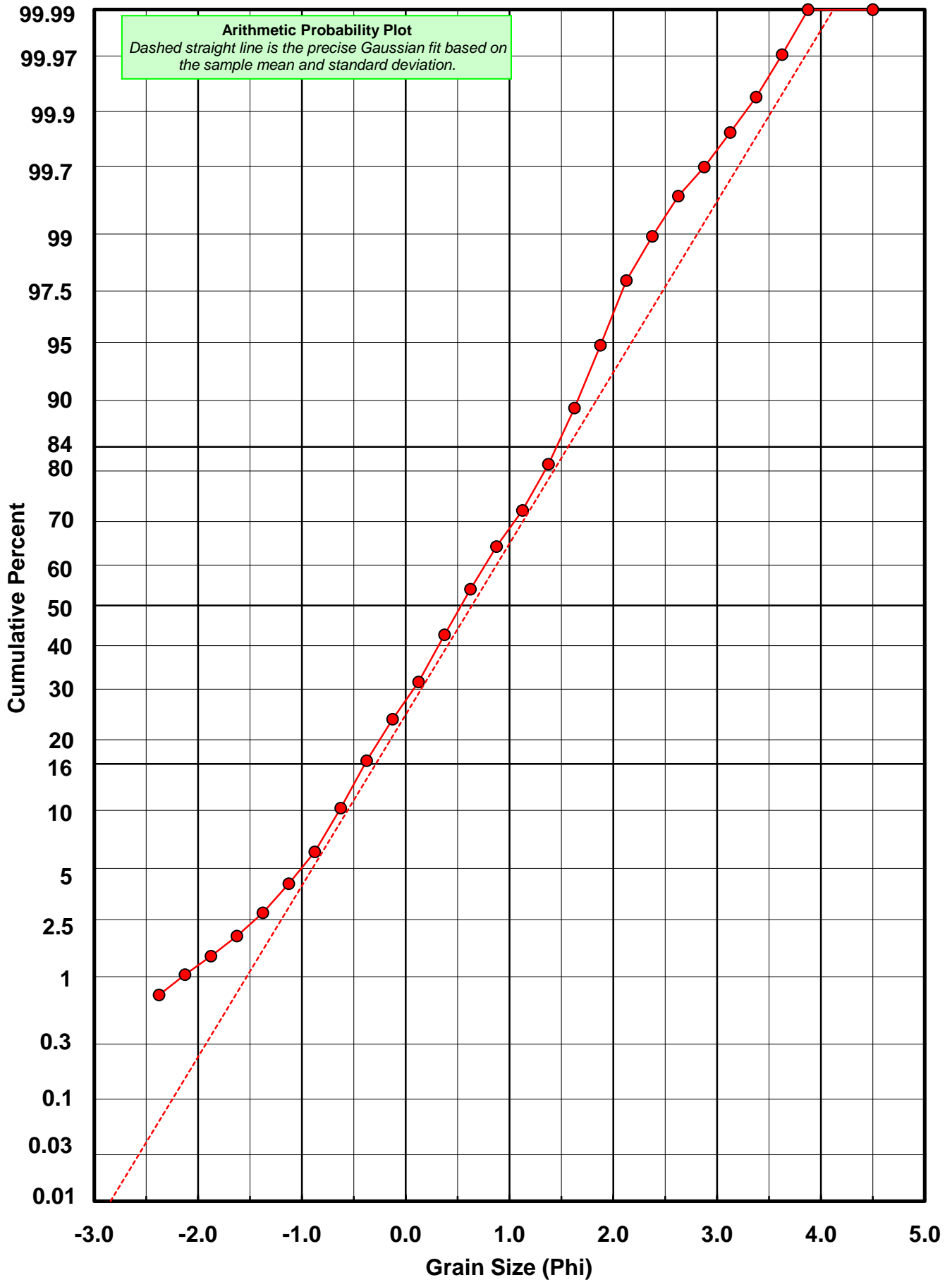
* RARD = reciprocal absolute relative dispersion (see below)

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-12-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SL-12-BB

Total Carbonate Mass: 46.665 grams

% Carbonate: 77.1 %

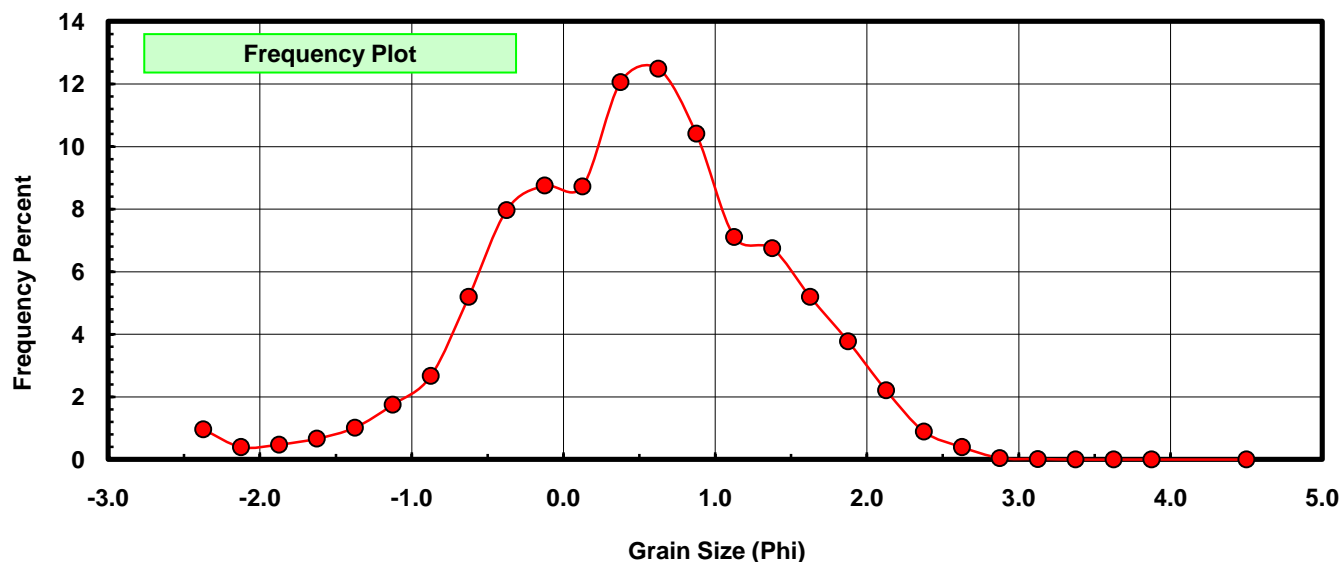
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.450	0.964	0.964
-2.00	-2.125	0.186	0.399	1.363
-1.75	-1.875	0.223	0.478	1.841
-1.50	-1.625	0.312	0.669	2.509
-1.25	-1.375	0.476	1.020	3.529
-1.00	-1.125	0.819	1.755	5.284
-0.75	-0.875	1.246	2.670	7.955
-0.50	-0.625	2.427	5.201	13.155
-0.25	-0.375	3.720	7.972	21.127
0.00	-0.125	4.086	8.756	29.883
0.25	0.125	4.072	8.726	38.609
0.50	0.375	5.628	12.060	50.670
0.75	0.625	5.830	12.493	63.163
1.00	0.875	4.858	10.410	73.573
1.25	1.125	3.320	7.115	80.688
1.50	1.375	3.152	6.755	87.442
1.75	1.625	2.427	5.201	92.643
2.00	1.875	1.764	3.780	96.423
2.25	2.125	1.034	2.216	98.639
2.50	2.375	0.418	0.896	99.535
2.75	2.625	0.186	0.399	99.934
3.00	2.875	0.023	0.049	99.983
3.25	3.125	0.008	0.017	100.000
3.50	3.375	0.000	0.000	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:	0.4527	phi	(0.7307 mm)
Standard Dev:	0.9128	phi-units	(0.5312 mm)
Skewness:	-0.3178	dimensionless	
Kurtosis:	3.2548	dimensionless	
5th Moment:	-3.5659	dimensionless	
6th Moment:	18.2308	dimensionless	
RARD *	2.0163	dimensionless	
Median	0.3611	phi	(0.7786 mm)

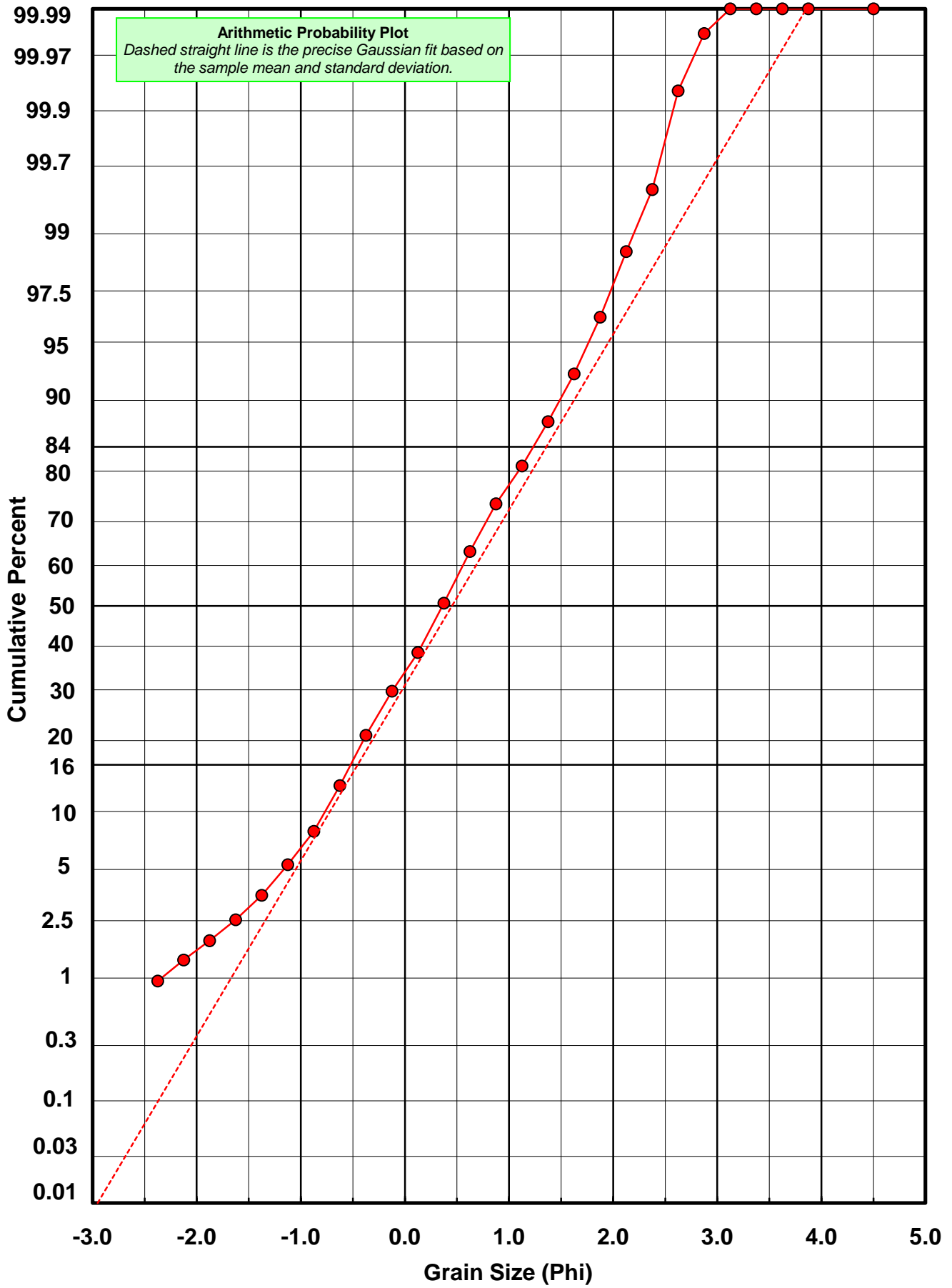
* RARD = reciprocal absolute relative dispersion (see below)

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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SL-12-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-12-BB

Total Digested Mass: 13.851 grams

% Silica: 22.9 %

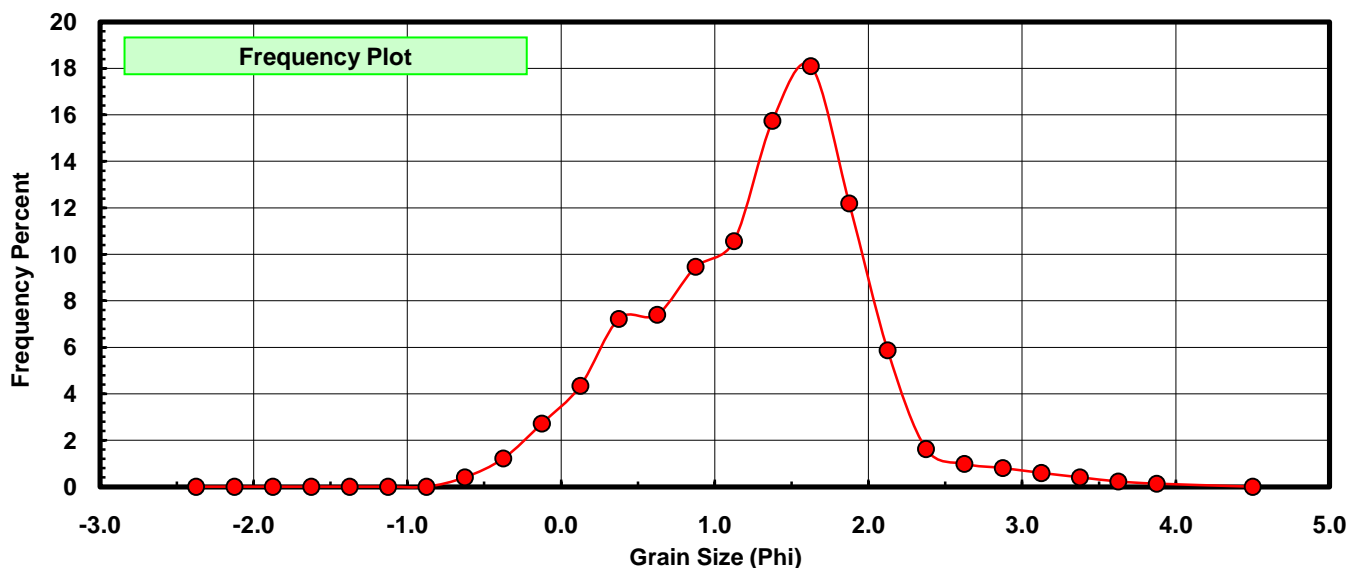
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.056	0.404	0.404
-0.25	-0.375	0.169	1.220	1.624
0.00	-0.125	0.377	2.722	4.346
0.25	0.125	0.601	4.339	8.685
0.50	0.375	1.000	7.220	15.905
0.75	0.625	1.025	7.400	23.305
1.00	0.875	1.310	9.458	32.763
1.25	1.125	1.464	10.570	43.333
1.50	1.375	2.181	15.746	59.079
1.75	1.625	2.507	18.100	77.179
2.00	1.875	1.689	12.194	89.373
2.25	2.125	0.813	5.870	95.242
2.50	2.375	0.225	1.624	96.867
2.75	2.625	0.136	0.982	97.849
3.00	2.875	0.111	0.801	98.650
3.25	3.125	0.082	0.592	99.242
3.50	3.375	0.056	0.404	99.646
3.75	3.625	0.031	0.224	99.870
4.00	3.875	0.018	0.130	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.2666	phi	(0.4156 mm)
Standard Dev:	0.7290	phi-units	(0.6033 mm)
Skewness:	-0.0401	dimensionless	
Kurtosis:	3.1278	dimensionless	
5th Moment:	1.5609	dimensionless	
6th Moment:	17.3301	dimensionless	
RARD *	0.5756	dimensionless	
Median	1.2309	phi	(0.4261 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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