

Onshore Grab Sample

Sample: SL-02
Sample Taken By: D. Phelps
Sample Collected On: 10/30/08
Splits? N/A

County: St. Lucie
Latitude: 27° 32' 25.1"
Longitude: 80° 18' 58.4"
Datum: WGS 84
Surf. Elev: 0
Datum: N/A

Fine Data Summary

Total Sample Weight 61.748 grams
Total Fines in Sample 0.201 grams
Total Percent Fines 0.32 %

Dry Sieving Summary

Total Sample Weight 61.535 grams
Total Digested Weight 37.187 grams
Total Carbonate Weight 24.348 grams
Total Silica % 60.43 %
Total Carbonate % 39.57 %
Carbonate/Silica Ratio 0.655

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-02

Total Sample Mass: 61.535 grams

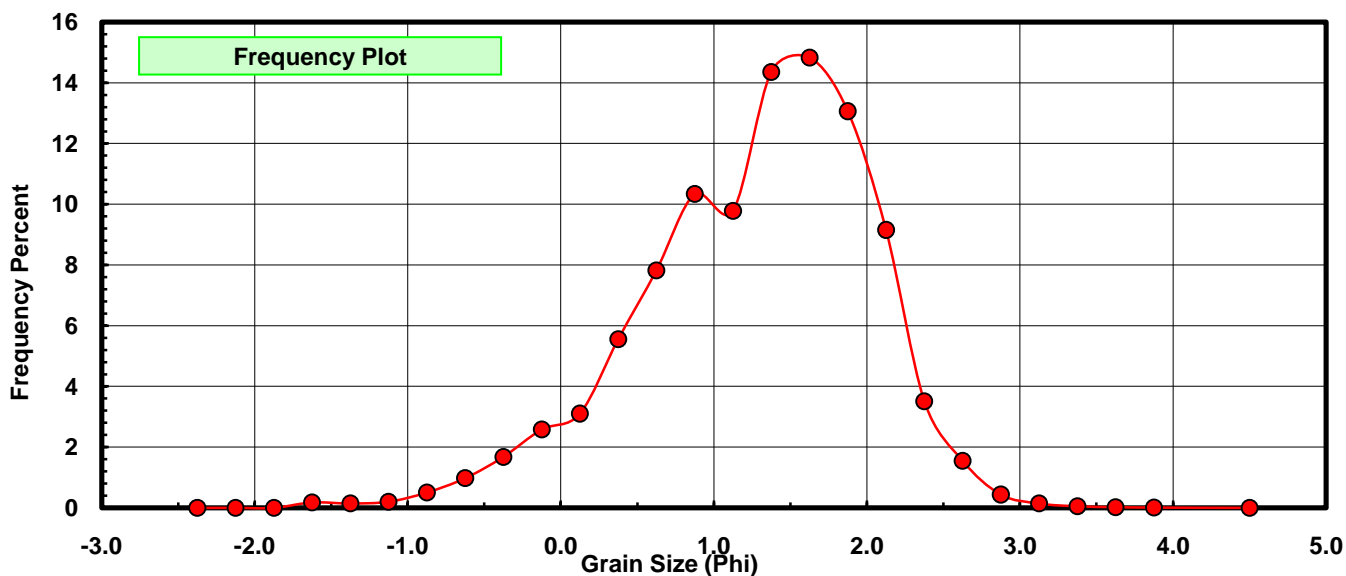
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.110	0.179	0.179
-1.25	-1.375	0.089	0.145	0.323
-1.00	-1.125	0.124	0.202	0.525
-0.75	-0.875	0.311	0.505	1.030
-0.50	-0.625	0.600	0.975	2.005
-0.25	-0.375	1.033	1.679	3.684
0.00	-0.125	1.588	2.581	6.265
0.25	0.125	1.910	3.104	9.369
0.50	0.375	3.415	5.550	14.918
0.75	0.625	4.813	7.822	22.740
1.00	0.875	6.361	10.337	33.077
1.25	1.125	6.019	9.781	42.859
1.50	1.375	8.836	14.359	57.218
1.75	1.625	9.127	14.832	72.050
2.00	1.875	8.039	13.064	85.114
2.25	2.125	5.633	9.154	94.268
2.50	2.375	2.162	3.513	97.782
2.75	2.625	0.955	1.552	99.334
3.00	2.875	0.269	0.437	99.771
3.25	3.125	0.088	0.143	99.914
3.50	3.375	0.032	0.052	99.966
3.75	3.625	0.015	0.024	99.990
4.00	3.875	0.006	0.010	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	1.2690	phi	(0.4149 mm)
Standard Dev:	0.7500	phi-units	(0.5946 mm)
Skewness:	-0.6153	dimensionless	
Kurtosis:	3.4112	dimensionless	
5th Moment:	-5.5802	dimensionless	
6th Moment:	22.5287	dimensionless	
RARD *	0.5910	dimensionless	
Median	1.2493	phi	(0.4206 mm)

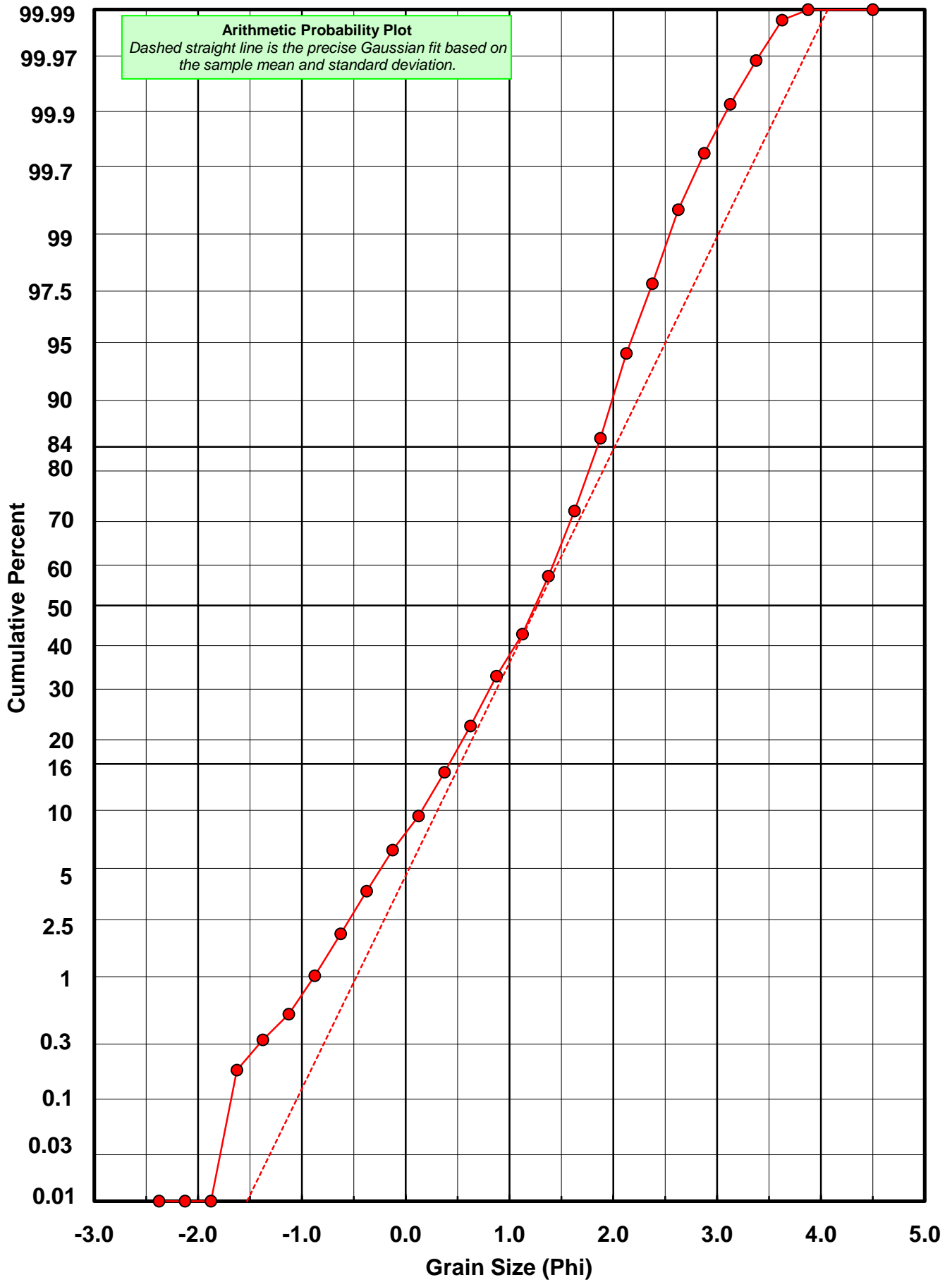
* RARD = reciprocal absolute relative dispersion (see below)

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-02



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SL-02

Total Carbonate Mass: 24.364 grams

% Carbonate: 39.6 %

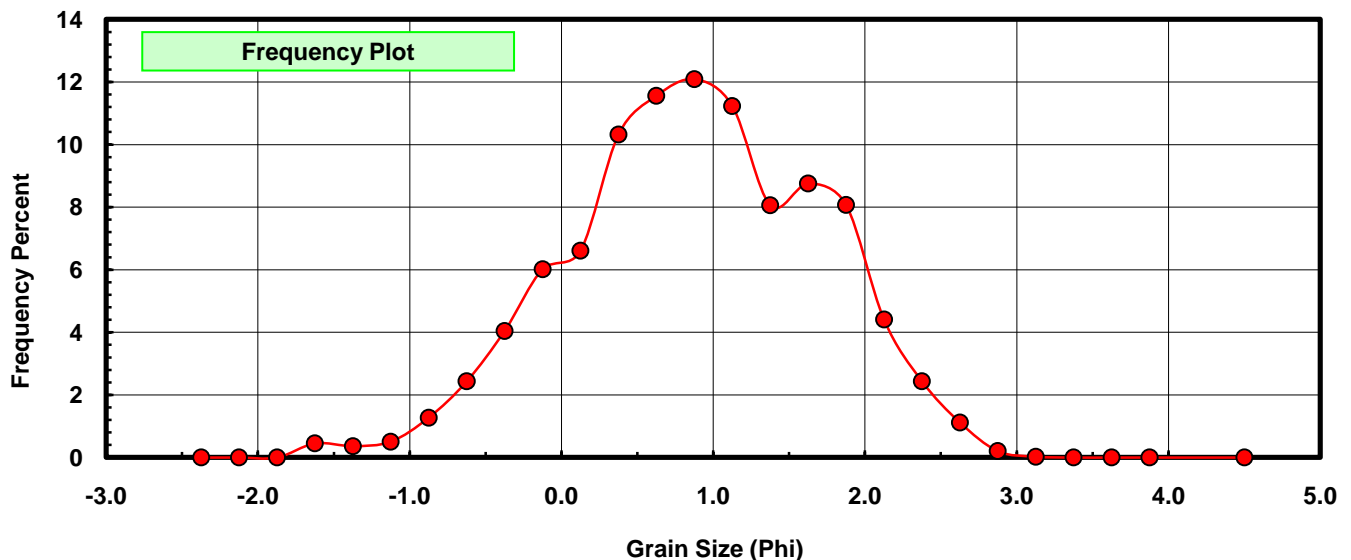
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.110	0.451	0.451
-1.25	-1.375	0.089	0.365	0.817
-1.00	-1.125	0.124	0.509	1.326
-0.75	-0.875	0.311	1.276	2.602
-0.50	-0.625	0.593	2.434	5.036
-0.25	-0.375	0.986	4.047	9.083
0.00	-0.125	1.467	6.021	15.104
0.25	0.125	1.610	6.608	21.712
0.50	0.375	2.514	10.319	32.031
0.75	0.625	2.816	11.558	43.589
1.00	0.875	2.945	12.088	55.676
1.25	1.125	2.737	11.234	66.910
1.50	1.375	1.964	8.061	74.971
1.75	1.625	2.133	8.755	83.726
2.00	1.875	1.967	8.073	91.799
2.25	2.125	1.074	4.408	96.208
2.50	2.375	0.594	2.438	98.646
2.75	2.625	0.273	1.121	99.766
3.00	2.875	0.050	0.205	99.971
3.25	3.125	0.007	0.029	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:	0.8764	phi	(0.5447 mm)
Standard Dev:	0.8417	phi-units	(0.558 mm)
Skewness:	-0.1933	dimensionless	
Kurtosis:	2.6425	dimensionless	
5th Moment:	-1.8033	dimensionless	
6th Moment:	11.1830	dimensionless	
RARD *	0.9604	dimensionless	
Median	0.7576	phi	(0.5915 mm)

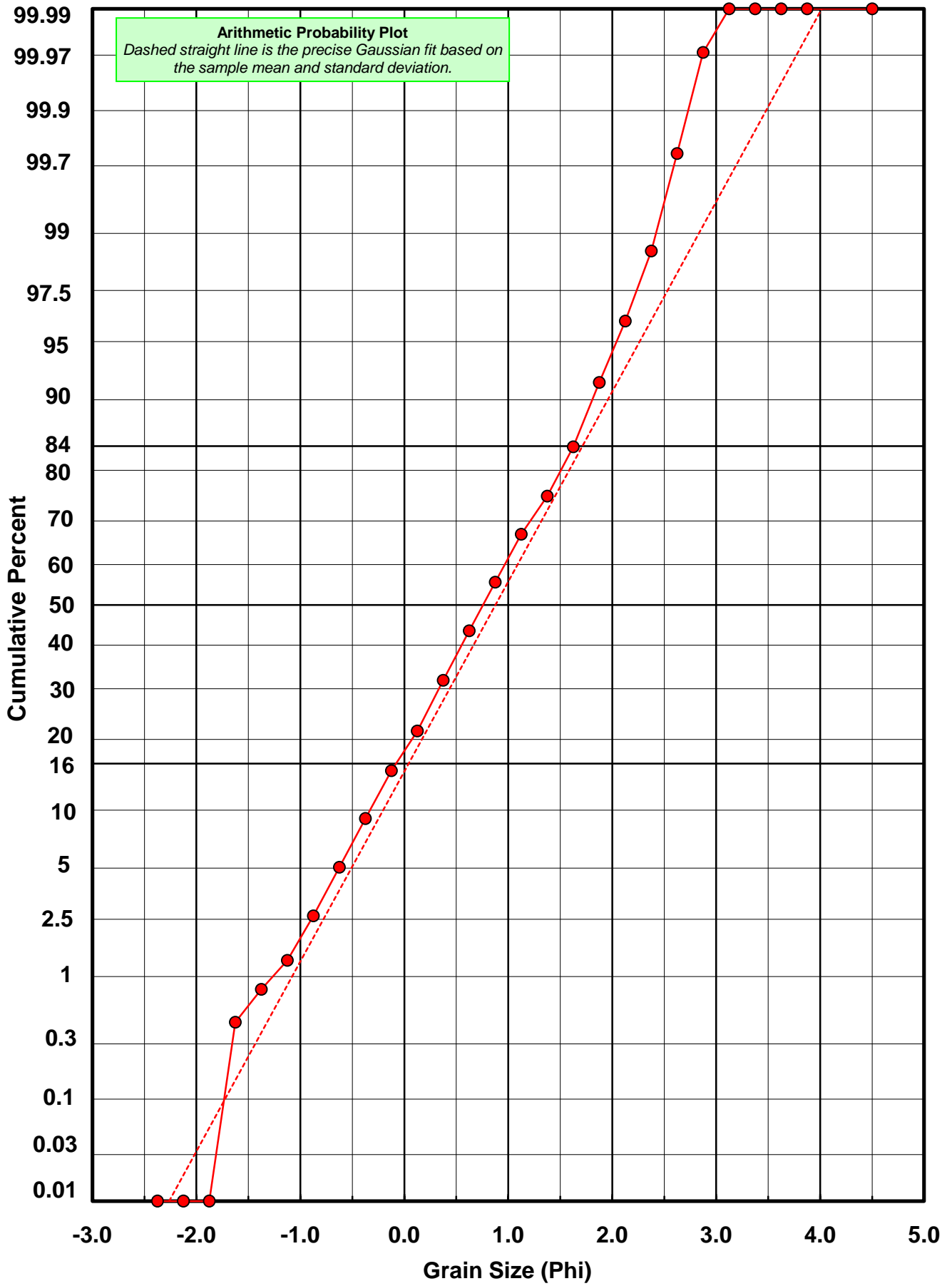
* RARD = reciprocal absolute relative dispersion (see below)

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-02



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-02

Total Digested Mass: 37.187 grams

% Silica: 60.4 %

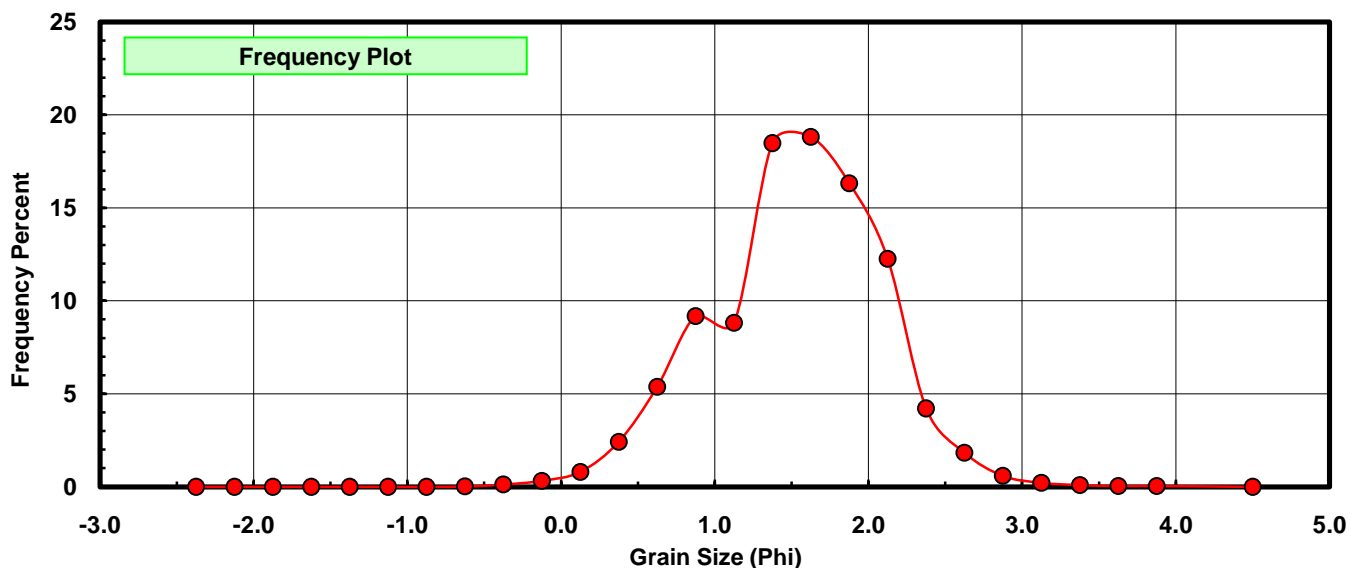
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.007	0.019	0.019
-0.25	-0.375	0.047	0.126	0.145
0.00	-0.125	0.121	0.325	0.471
0.25	0.125	0.300	0.807	1.277
0.50	0.375	0.901	2.423	3.700
0.75	0.625	1.997	5.370	9.070
1.00	0.875	3.416	9.186	18.256
1.25	1.125	3.282	8.826	27.082
1.50	1.375	6.872	18.480	45.562
1.75	1.625	6.994	18.808	64.369
2.00	1.875	6.072	16.328	80.698
2.25	2.125	4.559	12.260	92.957
2.50	2.375	1.568	4.217	97.174
2.75	2.625	0.682	1.834	99.008
3.00	2.875	0.219	0.589	99.597
3.25	3.125	0.081	0.218	99.814
3.50	3.375	0.036	0.097	99.911
3.75	3.625	0.015	0.040	99.952
4.00	3.875	0.018	0.048	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.5273	phi	(0.3469 mm)
Standard Dev:	0.5603	phi-units	(0.6782 mm)
Skewness:	-0.1952	dimensionless	
Kurtosis:	3.2042	dimensionless	
5th Moment:	-0.7206	dimensionless	
6th Moment:	19.2136	dimensionless	
RARD *	0.3668	dimensionless	
Median	1.4340	phi	(0.3701 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-02

