

## Onshore Grab Sample

Sample: SL-03  
Sample Taken By: D. Phelps  
Sample Collected On: 10/30/08  
Splits? N/A

County: St. Lucie  
Latitude: 27° 31' 38.0"  
Longitude: 80° 18' 44.2"  
Datum: WGS 84  
Surf. Elev: 0  
Datum: N/A

### Fine Data Summary

Total Sample Weight 58.566 grams  
Total Fines in Sample 0.171 grams  
Total Percent Fines 0.29 %

### Dry Sieving Summary

Total Sample Weight 58.426 grams  
Total Digested Weight 32.889 grams  
Total Carbonate Weight 25.537 grams  
Total Silica % 56.29 %  
Total Carbonate % 43.71 %  
Carbonate/Silica Ratio 0.776

### General Comments:

None

### Description

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-03

Total Sample Mass: 58.426 grams

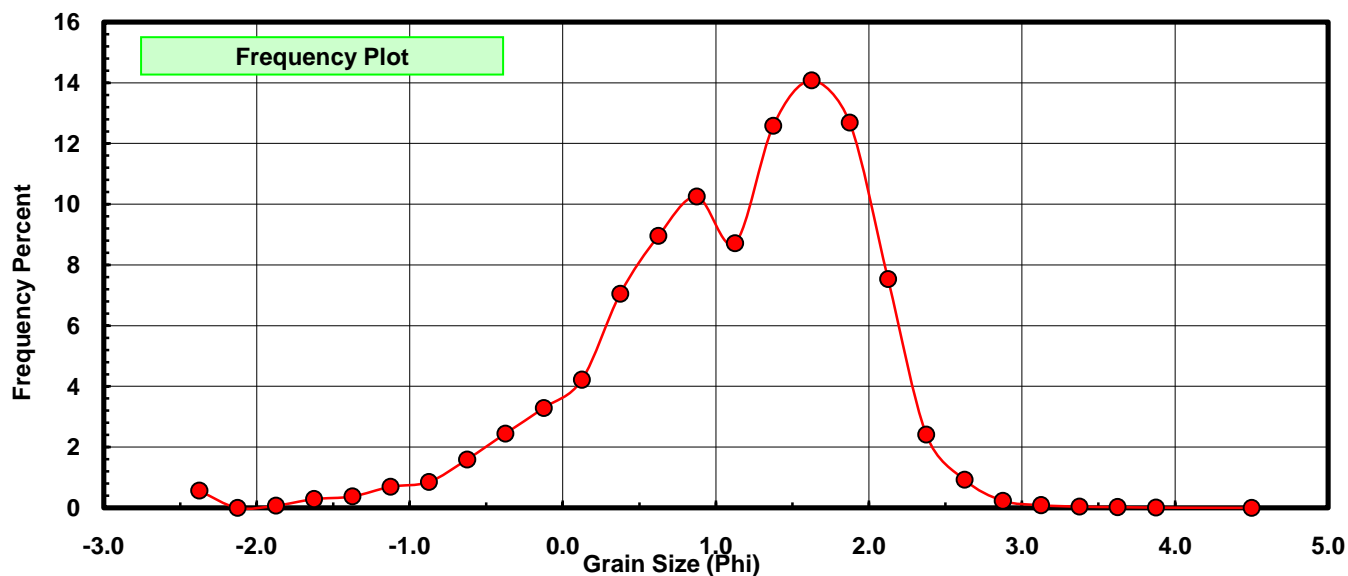
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.330	0.565	0.565
-2.00	-2.125	0.000	0.000	0.565
-1.75	-1.875	0.042	0.072	0.637
-1.50	-1.625	0.169	0.289	0.926
-1.25	-1.375	0.219	0.375	1.301
-1.00	-1.125	0.407	0.697	1.997
-0.75	-0.875	0.498	0.852	2.850
-0.50	-0.625	0.932	1.595	4.445
-0.25	-0.375	1.431	2.449	6.894
0.00	-0.125	1.922	3.290	10.184
0.25	0.125	2.466	4.221	14.405
0.50	0.375	4.119	7.050	21.454
0.75	0.625	5.232	8.955	30.409
1.00	0.875	5.989	10.251	40.660
1.25	1.125	5.093	8.717	49.377
1.50	1.375	7.353	12.585	61.962
1.75	1.625	8.226	14.079	76.041
2.00	1.875	7.412	12.686	88.728
2.25	2.125	4.403	7.536	96.264
2.50	2.375	1.409	2.412	98.675
2.75	2.625	0.540	0.924	99.599
3.00	2.875	0.137	0.234	99.834
3.25	3.125	0.052	0.089	99.923
3.50	3.375	0.024	0.041	99.964
3.75	3.625	0.015	0.026	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:	1.1059	phi	(0.4646 mm)
Standard Dev:	0.8555	phi-units	(0.5527 mm)
Skewness:	-0.8878	dimensionless	
Kurtosis:	4.1905	dimensionless	
5th Moment:	-10.3166	dimensionless	
6th Moment:	40.1549	dimensionless	
RARD *	0.7736	dimensionless	
Median	1.1374	phi	(0.4546 mm)

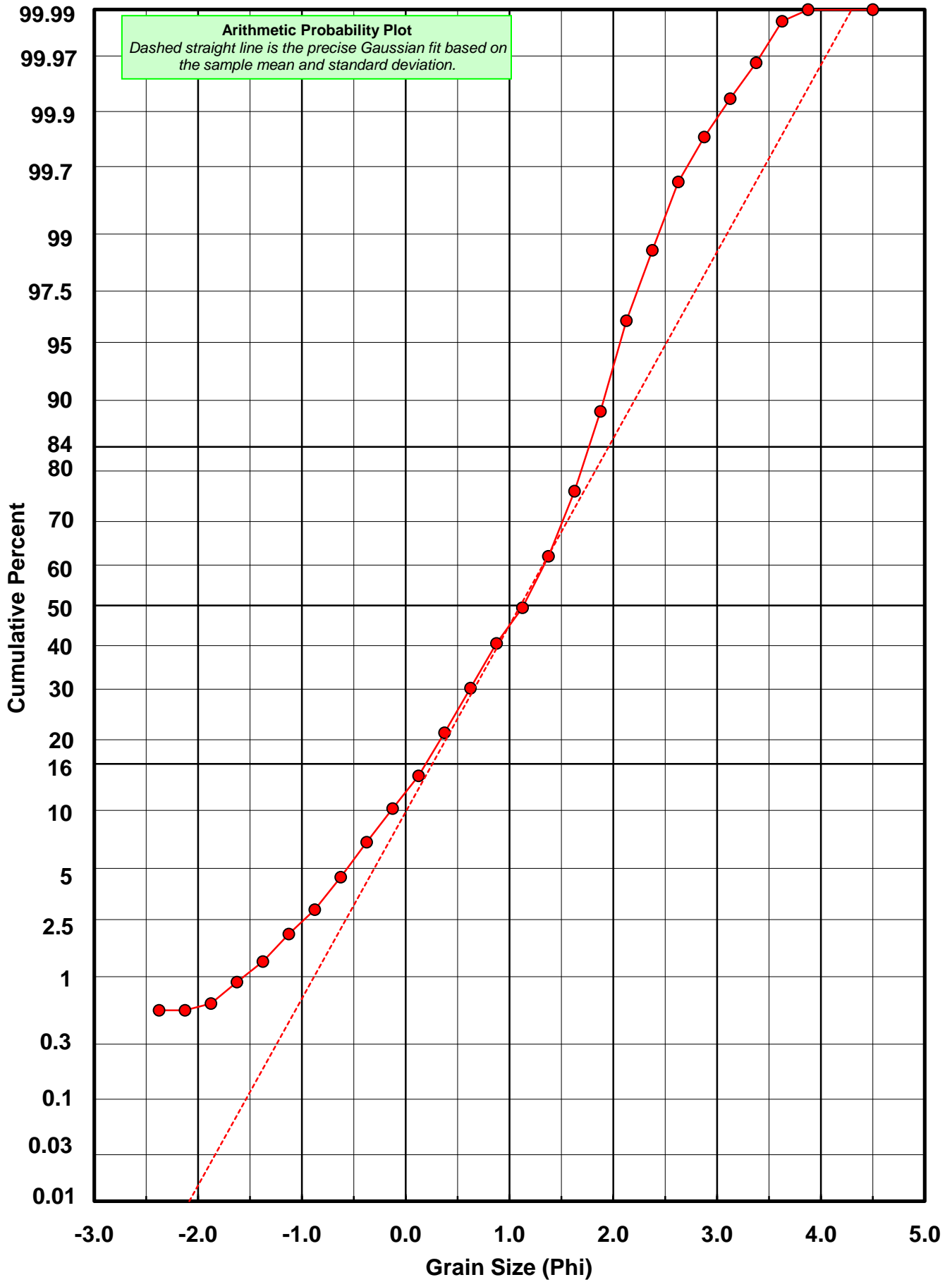
\* RARD = reciprocal absolute relative dispersion (see below)

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-03



# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: SL-03

Total Carbonate Mass: 25.573 grams

% Carbonate: 43.7 %

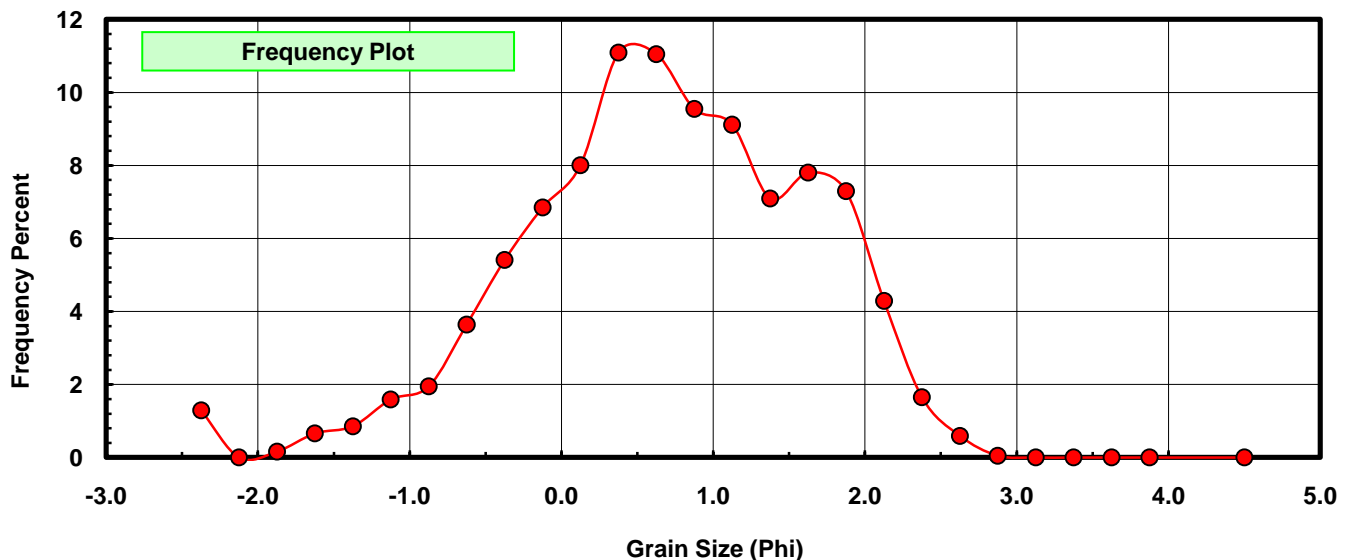
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.330	1.290	1.290
-2.00	-2.125	0.000	0.000	1.290
-1.75	-1.875	0.042	0.164	1.455
-1.50	-1.625	0.169	0.661	2.116
-1.25	-1.375	0.219	0.856	2.972
-1.00	-1.125	0.407	1.592	4.563
-0.75	-0.875	0.498	1.947	6.511
-0.50	-0.625	0.932	3.644	10.155
-0.25	-0.375	1.383	5.408	15.563
0.00	-0.125	1.751	6.847	22.410
0.25	0.125	2.048	8.008	30.419
0.50	0.375	2.836	11.090	41.509
0.75	0.625	2.826	11.051	52.559
1.00	0.875	2.441	9.545	62.105
1.25	1.125	2.331	9.115	71.220
1.50	1.375	1.814	7.093	78.313
1.75	1.625	1.996	7.805	86.118
2.00	1.875	1.865	7.293	93.411
2.25	2.125	1.097	4.290	97.701
2.50	2.375	0.423	1.654	99.355
2.75	2.625	0.152	0.594	99.949
3.00	2.875	0.013	0.051	100.000
3.25	3.125	0.000	0.000	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:	0.6725	phi	(0.6274 mm)
Standard Dev:	0.9651	phi-units	(0.5122 mm)
Skewness:	-0.4775	dimensionless	
Kurtosis:	3.1965	dimensionless	
5th Moment:	-5.0111	dimensionless	
6th Moment:	19.2365	dimensionless	
RARD *	1.4351	dimensionless	
Median	0.5671	phi	(0.675 mm)

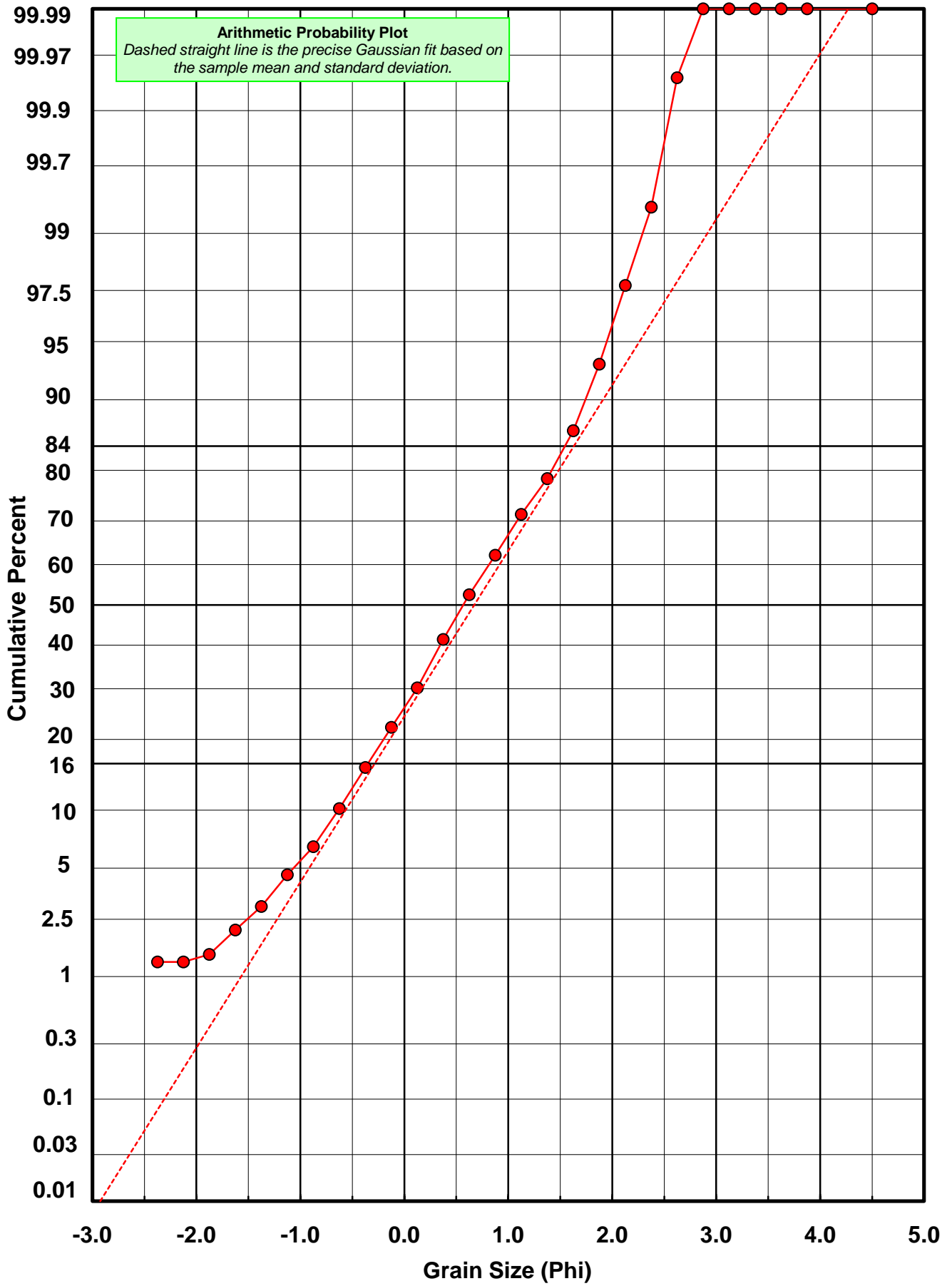
\* RARD = reciprocal absolute relative dispersion (see below)

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)
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# SL-03



# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SL-03

Total Digested Mass: 32.889 grams

% Silica: 56.3 %

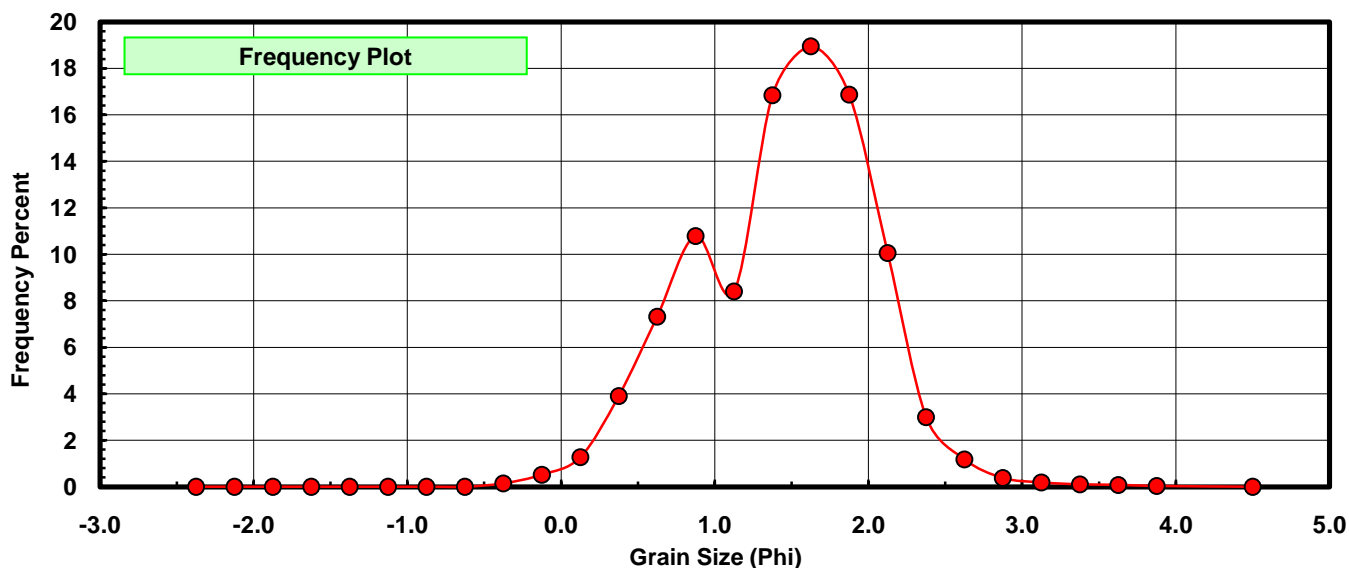
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.048	0.146	0.146
0.00	-0.125	0.171	0.520	0.666
0.25	0.125	0.418	1.271	1.937
0.50	0.375	1.283	3.901	5.838
0.75	0.625	2.406	7.316	13.153
1.00	0.875	3.548	10.788	23.941
1.25	1.125	2.762	8.398	32.339
1.50	1.375	5.539	16.841	49.181
1.75	1.625	6.230	18.943	68.123
2.00	1.875	5.547	16.866	84.989
2.25	2.125	3.306	10.052	95.041
2.50	2.375	0.986	2.998	98.039
2.75	2.625	0.388	1.180	99.219
3.00	2.875	0.124	0.377	99.596
3.25	3.125	0.061	0.185	99.781
3.50	3.375	0.034	0.103	99.884
3.75	3.625	0.027	0.082	99.967
4.00	3.875	0.011	0.033	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.4454	phi	(0.3672 mm)
Standard Dev:	0.5807	phi-units	(0.6686 mm)
Skewness:	-0.2069	dimensionless	
Kurtosis:	2.9984	dimensionless	
5th Moment:	-0.1588	dimensionless	
6th Moment:	16.9283	dimensionless	
RARD *	0.4018	dimensionless	
Median	1.3858	phi	(0.3827 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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