

Onshore Grab Sample

Sample: DX-01
Sample Taken By: D. Phelps
Sample Collected On: 2/22/11
Splits? N/A

County: Dixie
Latitude: 29° 26' 16.2" N
Longitude: 83° 17' 14.6" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 56.476 grams
Total Fines in Sample 0.600 grams
Total Percent Fines 1.05 %

Dry Sieving Summary

Total Sample Weight 55.801 grams
Total Digested Weight 51.497 grams
Total Carbonate Weight 4.304 grams
Total Silica % 92.29 %
Total Carbonate % 7.71 %
Carbonate/Silica Ratio 0.084

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DX-01

Total Sample Mass: 55.801 grams

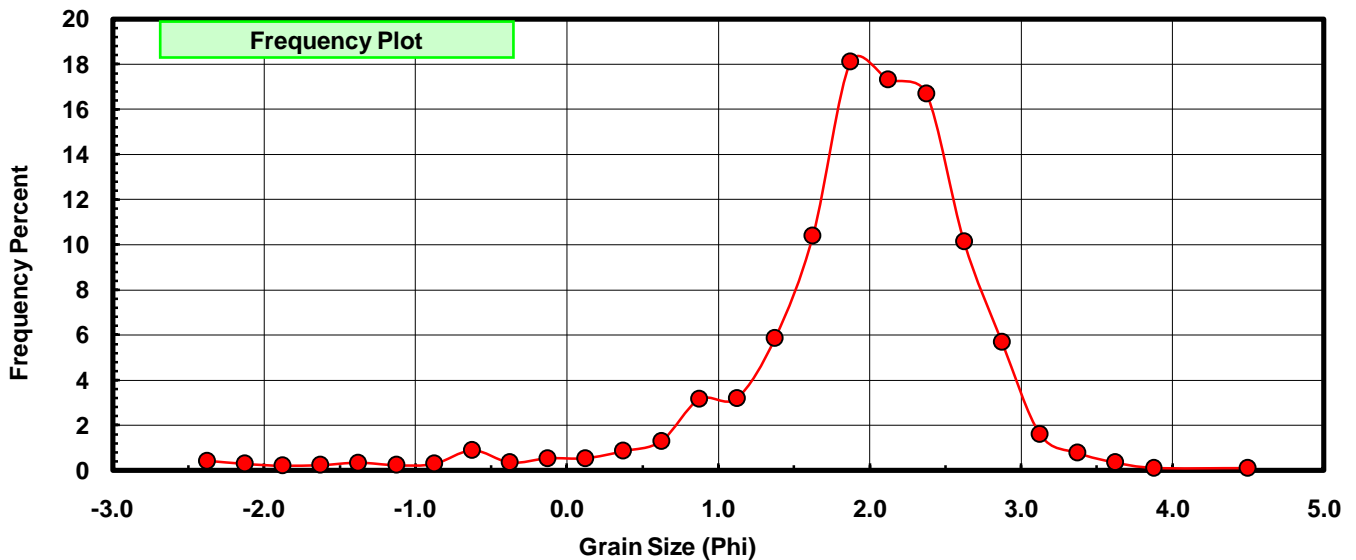
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.236	0.423	0.423
-2.00	-2.125	0.160	0.287	0.710
-1.75	-1.875	0.113	0.203	0.912
-1.50	-1.625	0.134	0.240	1.152
-1.25	-1.375	0.183	0.328	1.480
-1.00	-1.125	0.129	0.231	1.711
-0.75	-0.875	0.162	0.290	2.002
-0.50	-0.625	0.499	0.894	2.896
-0.25	-0.375	0.198	0.355	3.251
0.00	-0.125	0.299	0.536	3.787
0.25	0.125	0.301	0.539	4.326
0.50	0.375	0.480	0.860	5.186
0.75	0.625	0.722	1.294	6.480
1.00	0.875	1.760	3.154	9.634
1.25	1.125	1.786	3.201	12.835
1.50	1.375	3.276	5.871	18.706
1.75	1.625	5.807	10.407	29.112
2.00	1.875	10.110	18.118	47.230
2.25	2.125	9.657	17.306	64.536
2.50	2.375	9.320	16.702	81.239
2.75	2.625	5.652	10.129	91.368
3.00	2.875	3.175	5.690	97.057
3.25	3.125	0.893	1.600	98.658
3.50	3.375	0.434	0.778	99.435
3.75	3.625	0.197	0.353	99.789
4.00	3.875	0.062	0.111	99.900
5.00	4.50	0.056	0.100	100.000

Statistical Results			
Mean:	1.9158	phi	(0.265 mm)
Standard Dev:	0.8497	phi-units	(0.5549 mm)
Skewness:	-1.9480	dimensionless	
Kurtosis:	9.2827	dimensionless	
5th Moment:	-36.2985	dimensionless	
6th Moment:	165.8741	dimensionless	
RARD *	0.4435	dimensionless	
Median	1.9150	phi	(0.2652 mm)

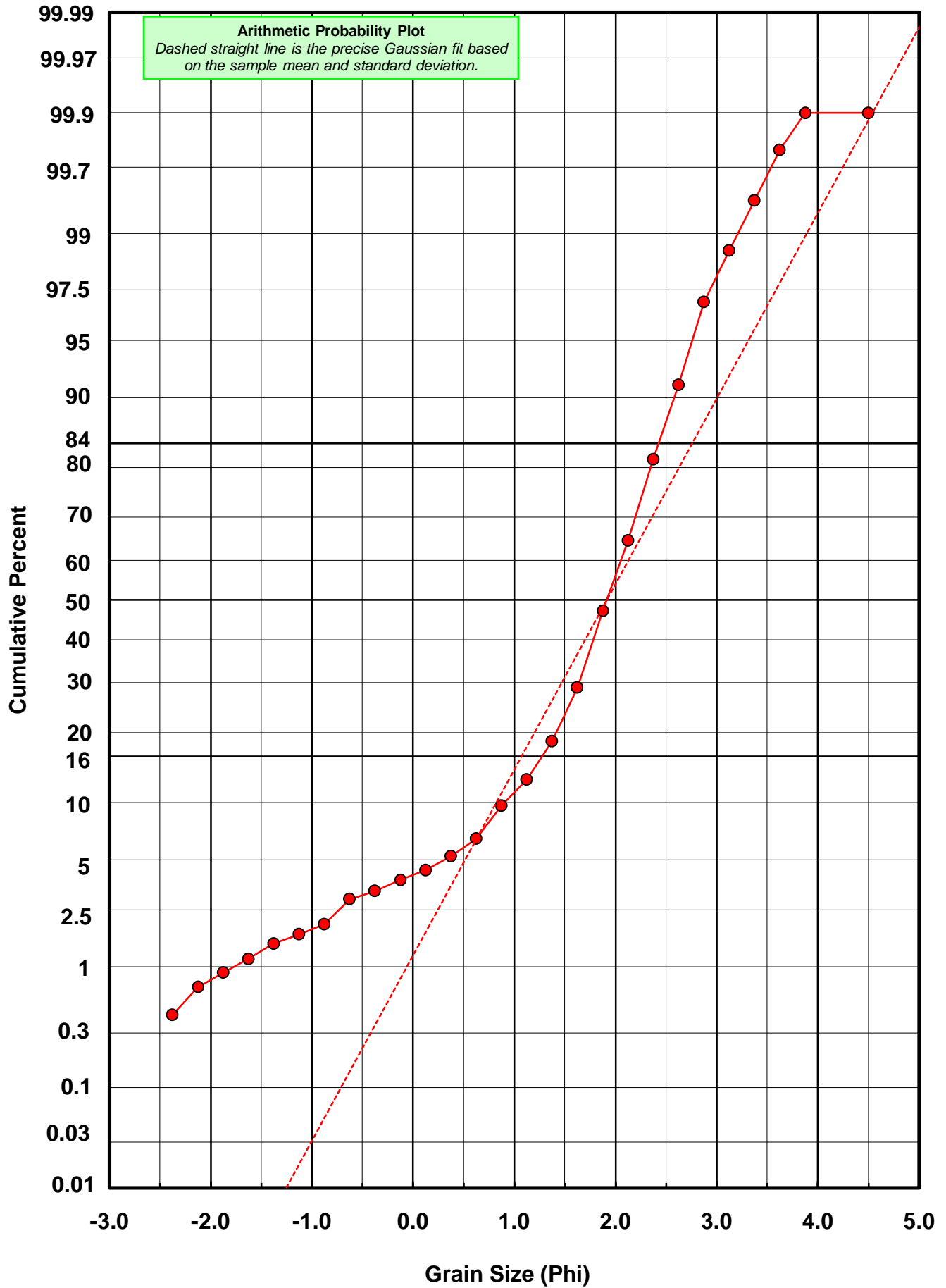
* RARD = reciprocal absolute relative dispersion (see below)

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)



DX-01



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: DX-01

Total Carbonate Mass: 4.545 grams

% Carbonate: 7.7 %

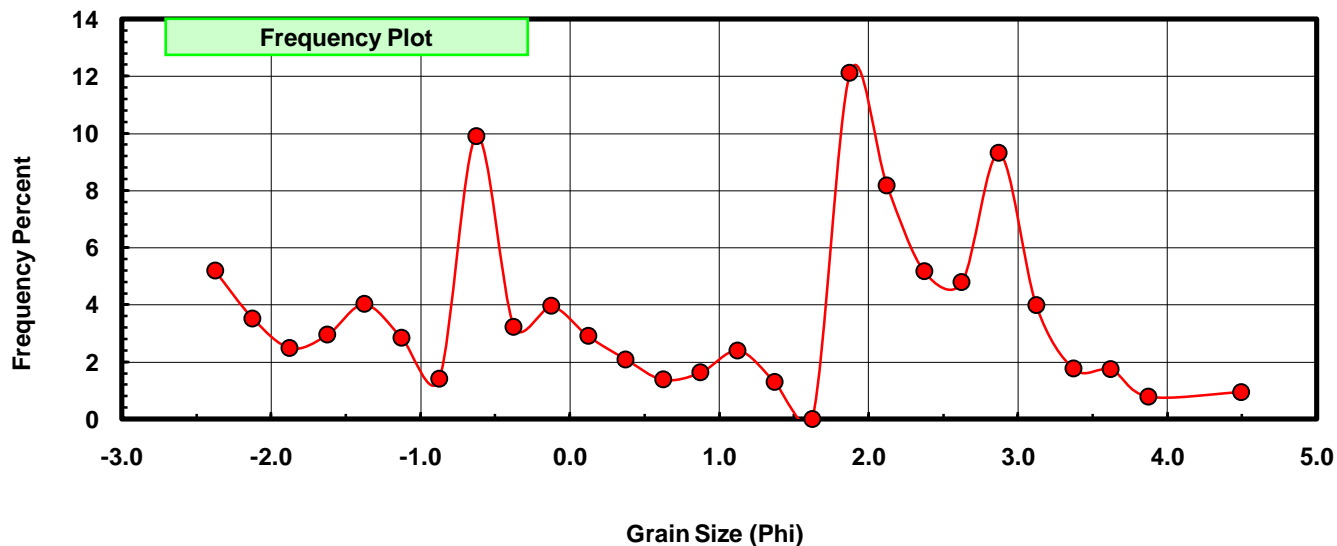
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.236	5.193	5.193
-2.00	-2.125	0.160	3.520	8.713
-1.75	-1.875	0.113	2.486	11.199
-1.50	-1.625	0.134	2.948	14.147
-1.25	-1.375	0.183	4.026	18.174
-1.00	-1.125	0.129	2.838	21.012
-0.75	-0.875	0.064	1.408	22.420
-0.50	-0.625	0.450	9.901	32.321
-0.25	-0.375	0.147	3.234	35.556
0.00	-0.125	0.180	3.960	39.516
0.25	0.125	0.132	2.904	42.420
0.50	0.375	0.095	2.090	44.510
0.75	0.625	0.063	1.386	45.897
1.00	0.875	0.074	1.628	47.525
1.25	1.125	0.109	2.398	49.923
1.50	1.375	0.059	1.298	51.221
1.75	1.625	0.000	0.000	51.221
2.00	1.875	0.551	12.123	63.344
2.25	2.125	0.371	8.163	71.507
2.50	2.375	0.235	5.171	76.678
2.75	2.625	0.218	4.796	81.474
3.00	2.875	0.423	9.307	90.781
3.25	3.125	0.181	3.982	94.763
3.50	3.375	0.080	1.760	96.524
3.75	3.625	0.079	1.738	98.262
4.00	3.875	0.036	0.792	99.054
5.00	4.500	0.043	0.946	100.000

Statistical Results			
Mean:	0.8452	phi	(0.5566 mm)
Standard Dev:	1.8602	phi-units	(0.2754 mm)
Skewness:	-0.2176	dimensionless	
Kurtosis:	1.7356	dimensionless	
5th Moment:	-0.7315	dimensionless	
6th Moment:	3.9327	dimensionless	
RARD *	2.2010	dimensionless	
Median	1.1398	phi	(0.4538 mm)

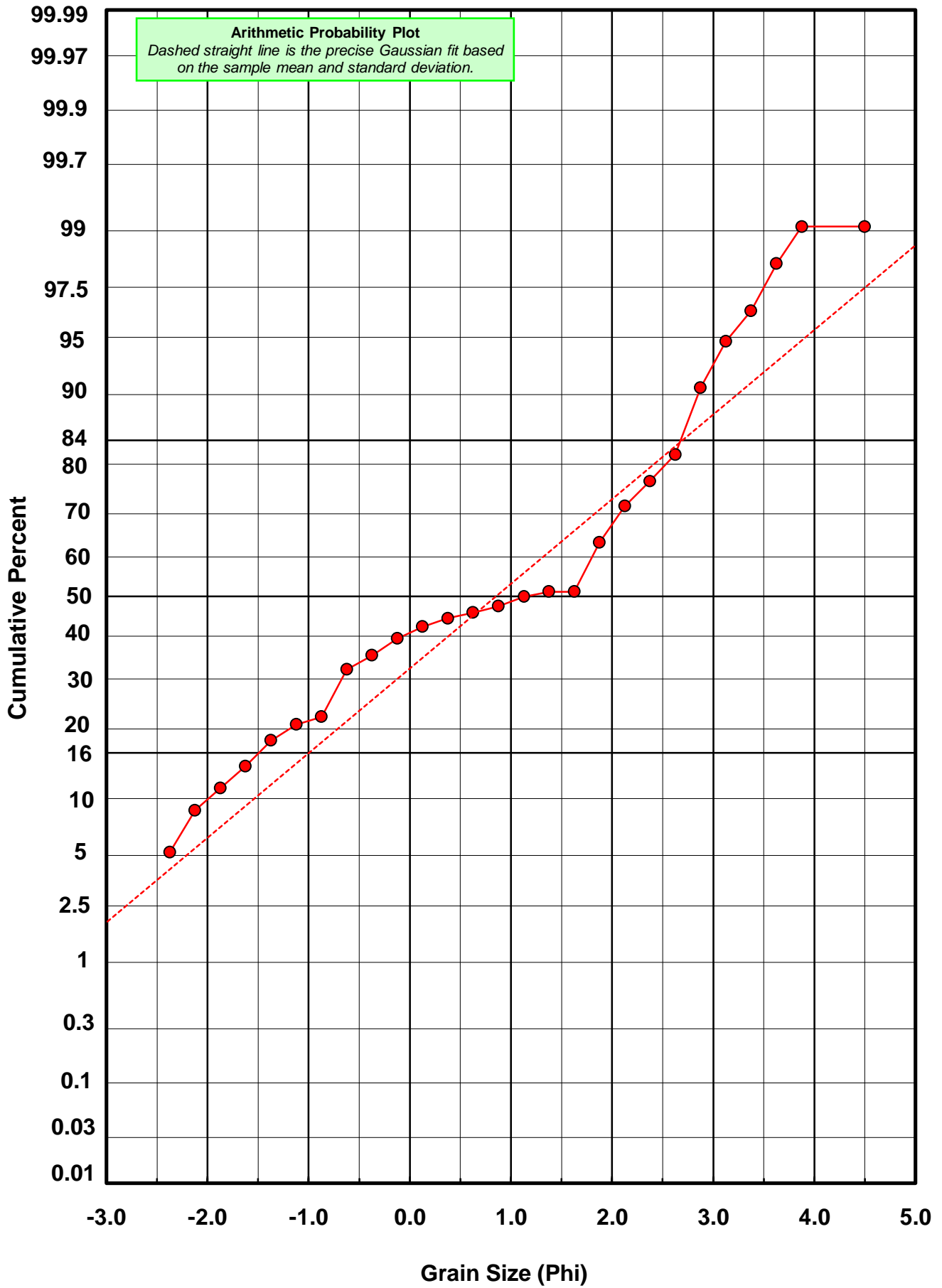
* RARD = reciprocal absolute relative dispersion (see below)

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)



DX-01



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DX-01

Total Digested Mass: 51.497 grams

% Silica: 92.3 %

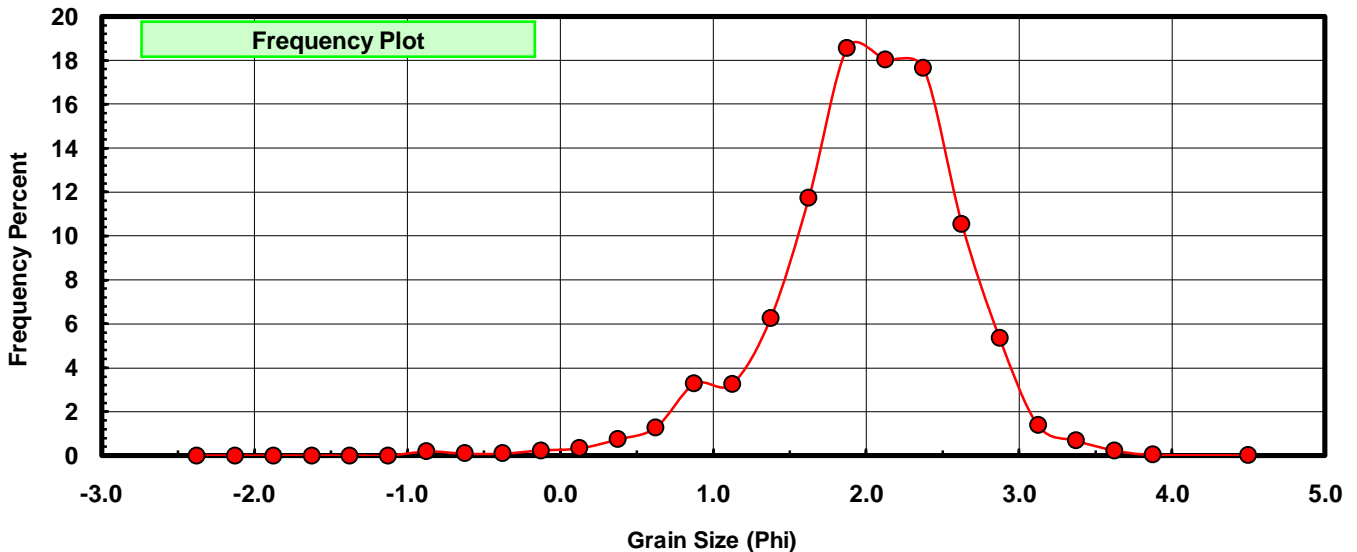
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.098	0.190	0.190
-0.50	-0.625	0.049	0.095	0.285
-0.25	-0.375	0.051	0.099	0.384
0.00	-0.125	0.119	0.231	0.616
0.25	0.125	0.169	0.328	0.944
0.50	0.375	0.385	0.748	1.691
0.75	0.625	0.659	1.280	2.971
1.00	0.875	1.686	3.274	6.245
1.25	1.125	1.677	3.257	9.502
1.50	1.375	3.217	6.247	15.748
1.75	1.625	6.048	11.744	27.493
2.00	1.875	9.559	18.562	46.055
2.25	2.125	9.286	18.032	64.087
2.50	2.375	9.085	17.642	81.729
2.75	2.625	5.434	10.552	92.281
3.00	2.875	2.752	5.344	97.625
3.25	3.125	0.712	1.383	99.008
3.50	3.375	0.354	0.687	99.695
3.75	3.625	0.118	0.229	99.924
4.00	3.875	0.026	0.050	99.975
5.00	4.500	0.013	0.025	100.000

Statistical Results			
Mean:	2.0090	phi	(0.2485 mm)
Standard Dev:	0.6005	phi-units	(0.6595 mm)
Skewness:	-0.7477	dimensionless	
Kurtosis:	4.7931	dimensionless	
5th Moment:	-10.9880	dimensionless	
6th Moment:	54.4791	dimensionless	
RARD *	0.2989	dimensionless	
Median	1.9297	phi	(0.2625 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)



DX-01

