

**Onshore Grab Sample**

**Sample:** HL-01-BB  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 11/4/09  
**Splits?** N/A

**County:** Hillsborough  
**Latitude:** 27° 36' 11.2"  
**Longitude:** 82° 45' 45.4"  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 56.964 grams  
Total Fines in Sample 0.151 grams  
Total Percent Fines 0.26 %

**Dry Sieving Summary**

Total Sample Weight 58.386 grams  
Total Digested Weight 36.276 grams  
Total Carbonate Weight 22.110 grams  
Total Silica % 62.13 %  
Total Carbonate % 37.87 %  
Carbonate/Silica Ratio 0.609

**General Comments:**

None

**Description**

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: HL-01-BB

Total Sample Mass: 58.386 grams

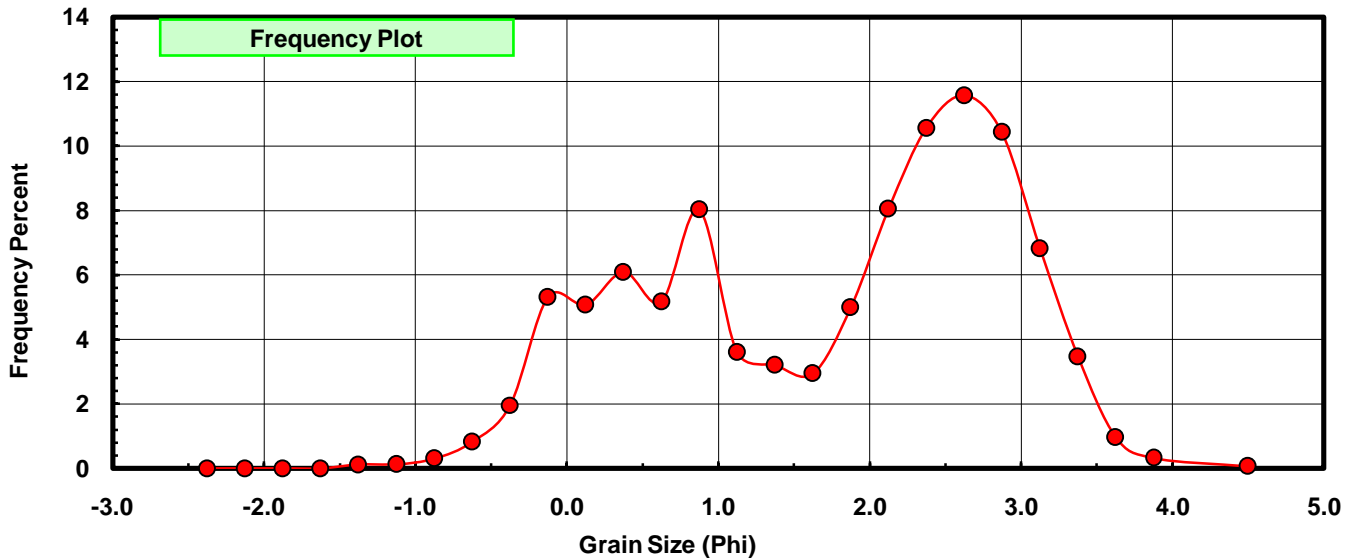
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.065	0.111	0.111
-1.00	-1.125	0.072	0.123	0.235
-0.75	-0.875	0.178	0.305	0.540
-0.50	-0.625	0.479	0.820	1.360
-0.25	-0.375	1.148	1.966	3.326
0.00	-0.125	3.103	5.315	8.641
0.25	0.125	2.958	5.066	13.707
0.50	0.375	3.559	6.096	19.803
0.75	0.625	3.016	5.166	24.968
1.00	0.875	4.688	8.029	32.998
1.25	1.125	2.108	3.610	36.608
1.50	1.375	1.869	3.201	39.809
1.75	1.625	1.720	2.946	42.755
2.00	1.875	2.913	4.989	47.744
2.25	2.125	4.700	8.050	55.794
2.50	2.375	6.164	10.557	66.352
2.75	2.625	6.758	11.575	77.926
3.00	2.875	6.090	10.431	88.357
3.25	3.125	3.982	6.820	95.177
3.50	3.375	2.026	3.470	98.647
3.75	3.625	0.565	0.968	99.615
4.00	3.875	0.188	0.322	99.937
5.00	4.50	0.037	0.063	100.000

Statistical Results			
Mean:	1.7392	phi	(0.2995 mm)
Standard Dev:	1.1530	phi-units	(0.4497 mm)
Skewness:	-0.3641	dimensionless	
Kurtosis:	1.8975	dimensionless	
5th Moment:	-1.5181	dimensionless	
6th Moment:	5.1822	dimensionless	
RARD *	0.6630	dimensionless	
Median	1.9451	phi	(0.2597 mm)

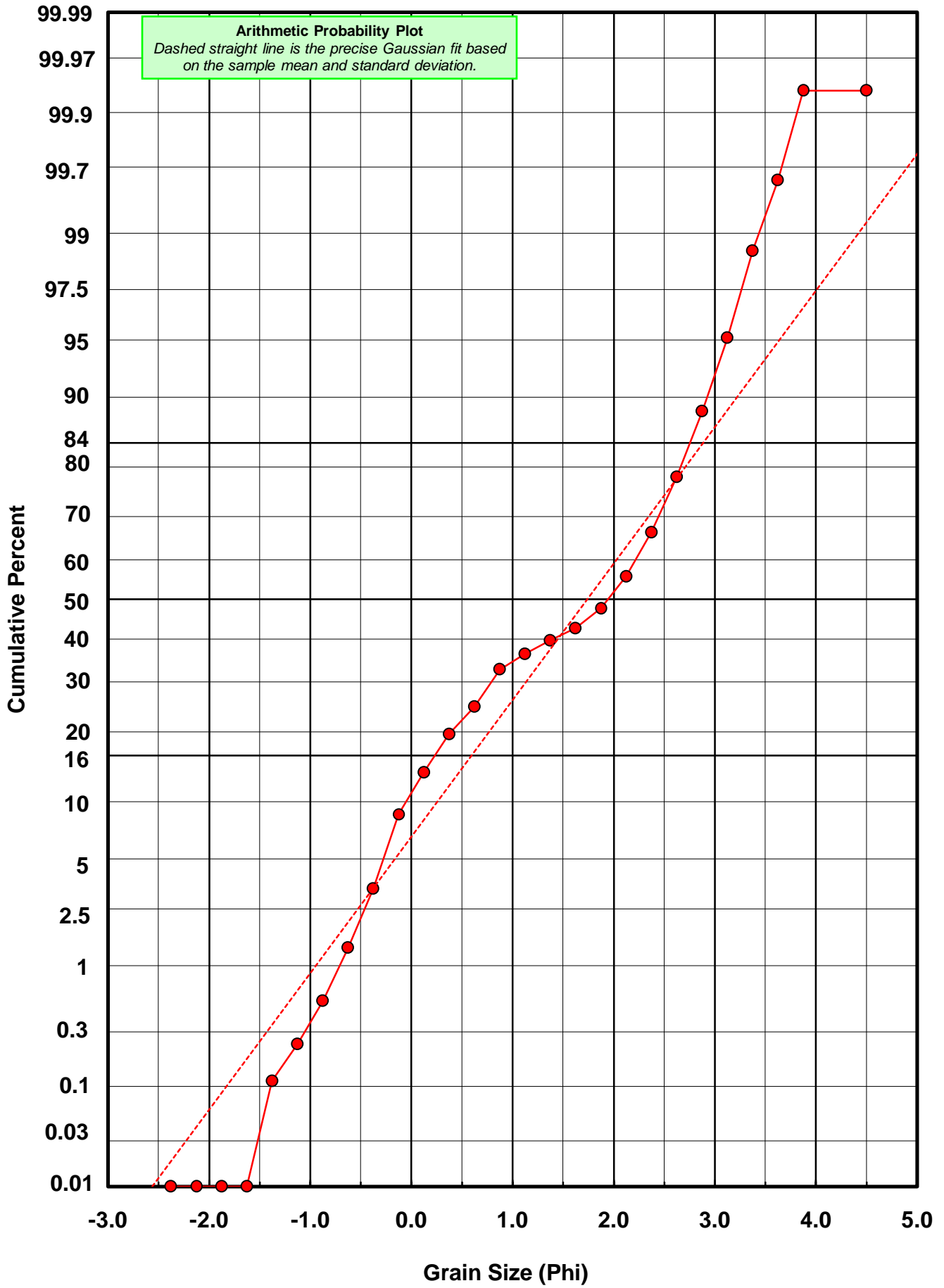
\* RARD = reciprocal absolute relative dispersion (see below)

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)



# HL-01-BB



# Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: HL-01-BB

Total Carbonate Mass: 22.233 grams

% Carbonate: 37.9 %

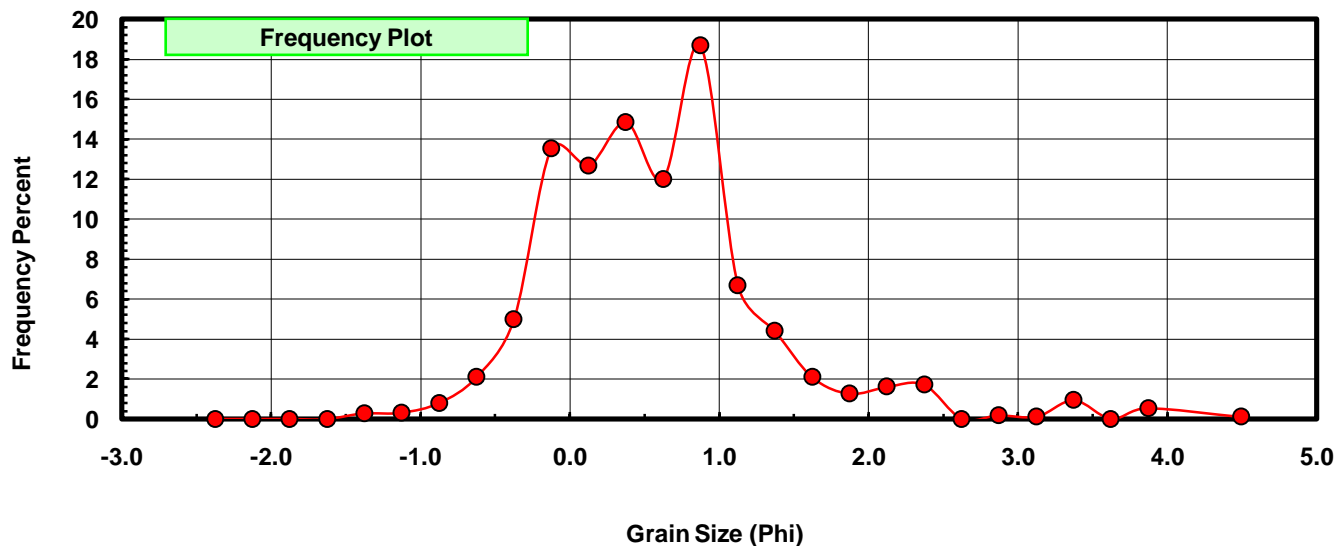
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.065	0.292	0.292
-1.00	-1.125	0.072	0.324	0.616
-0.75	-0.875	0.178	0.801	1.417
-0.50	-0.625	0.469	2.109	3.526
-0.25	-0.375	1.112	5.002	8.528
0.00	-0.125	3.006	13.520	22.048
0.25	0.125	2.815	12.661	34.710
0.50	0.375	3.303	14.856	49.566
0.75	0.625	2.670	12.009	61.575
1.00	0.875	4.152	18.675	80.250
1.25	1.125	1.486	6.684	86.934
1.50	1.375	0.980	4.408	91.342
1.75	1.625	0.468	2.105	93.447
2.00	1.875	0.283	1.273	94.720
2.25	2.125	0.360	1.619	96.339
2.50	2.375	0.382	1.718	98.057
2.75	2.625	0.000	0.000	98.057
3.00	2.875	0.043	0.193	98.250
3.25	3.125	0.028	0.126	98.376
3.50	3.375	0.212	0.954	99.330
3.75	3.625	0.000	0.000	99.330
4.00	3.875	0.123	0.553	99.883
5.00	4.500	0.026	0.117	100.000

Statistical Results			
Mean:	0.5840	phi	(0.6671 mm)
Standard Dev:	0.7839	phi-units	(0.5808 mm)
Skewness:	1.2144	dimensionless	
Kurtosis:	6.0880	dimensionless	
5th Moment:	18.8307	dimensionless	
6th Moment:	79.8866	dimensionless	
RARD *	1.3424	dimensionless	
Median	0.3840	phi	(0.7663 mm)

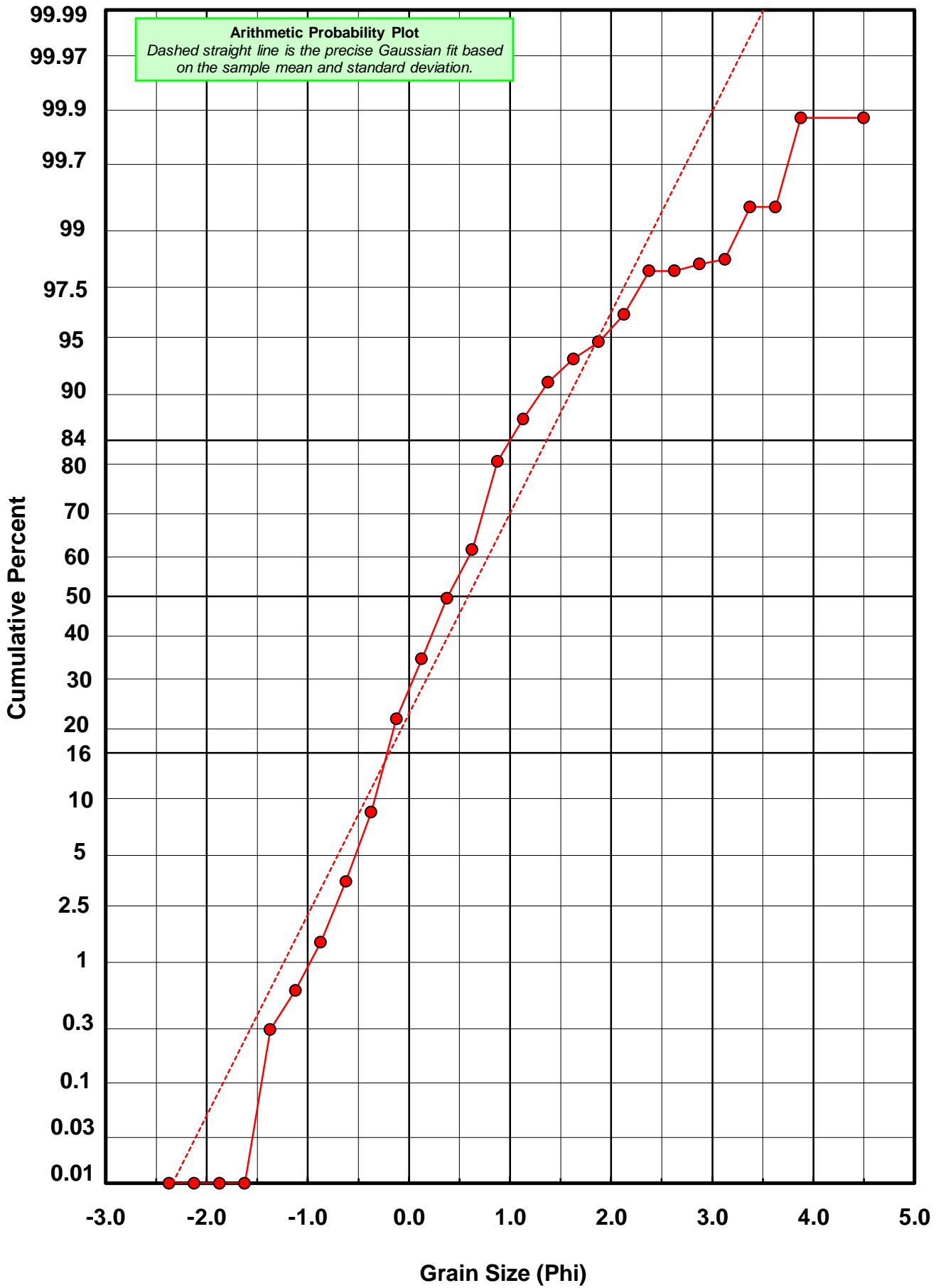
\* RARD = reciprocal absolute relative dispersion (see below)

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)



# HL-01-BB



# Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: HL-01-BB

Total Digested Mass: 36.276 grams

% Silica: 62.1 %

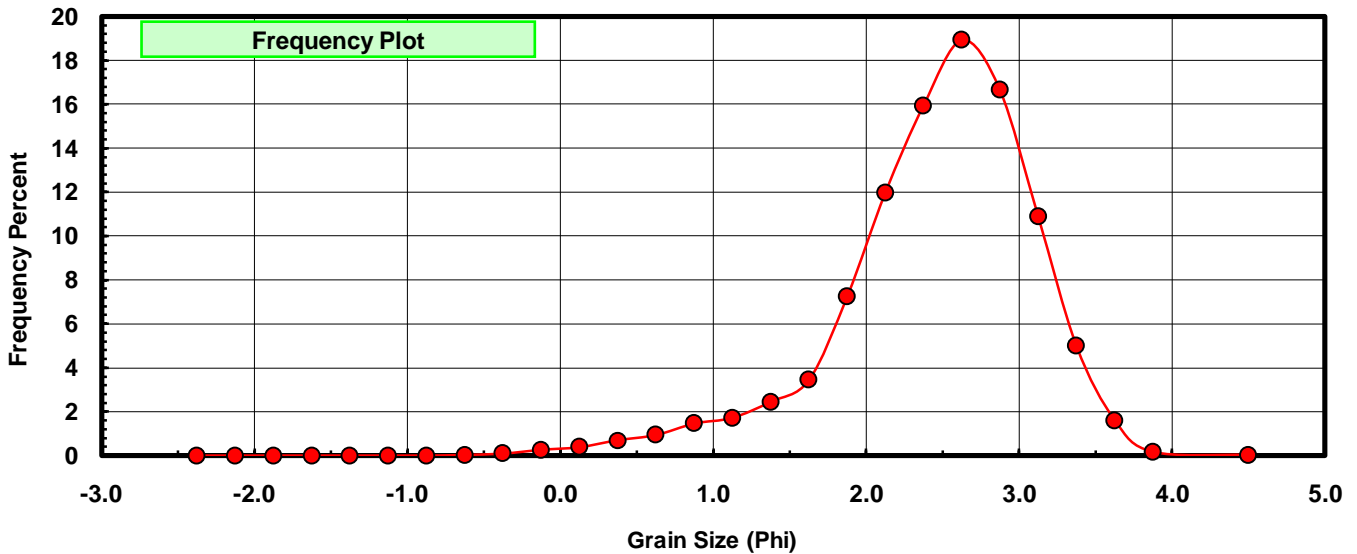
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.010	0.028	0.028
-0.25	-0.375	0.036	0.099	0.127
0.00	-0.125	0.097	0.267	0.394
0.25	0.125	0.143	0.394	0.788
0.50	0.375	0.256	0.706	1.494
0.75	0.625	0.346	0.954	2.448
1.00	0.875	0.536	1.478	3.925
1.25	1.125	0.622	1.715	5.640
1.50	1.375	0.889	2.451	8.091
1.75	1.625	1.252	3.451	11.542
2.00	1.875	2.630	7.250	18.792
2.25	2.125	4.340	11.964	30.756
2.50	2.375	5.782	15.939	46.695
2.75	2.625	6.863	18.919	65.614
3.00	2.875	6.047	16.669	82.283
3.25	3.125	3.954	10.900	93.183
3.50	3.375	1.814	5.001	98.183
3.75	3.625	0.583	1.607	99.790
4.00	3.875	0.065	0.179	99.970
5.00	4.500	0.011	0.030	100.000

Statistical Results			
Mean:	2.4508	phi	(0.1829 mm)
Standard Dev:	0.6597	phi-units	(0.633 mm)
Skewness:	-1.0464	dimensionless	
Kurtosis:	4.7125	dimensionless	
5th Moment:	-11.9341	dimensionless	
6th Moment:	44.3295	dimensionless	
RARD *	0.2692	dimensionless	
Median	2.4187	phi	(0.187 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)



# HL-01-BB

