Onshore Grab Sample

Sample: LV-07
Sample Taken By: D. Phelps
Sample Collected On: 2/21/11
Splits? N/A

County: Levy
Latitude: 29° 8' 20.3" N
Longitude: 83° 2' 28.5" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	52.618	grams
Total Fines in Sample	0.009	grams
Total Percent Fines	0.02	%

Dry Sieving Summary

Total Sample Weight	52.861	grams
Total Digested Weight	52.089	grams
Total Carbonate Weight	0.772	grams
Total Silica %	98.54	%
Total Carbonate %	1.46	%
Carbonate/Silica Ratio	0.015	

General Comments:

Not Enough Carbonate Material to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LV-07

Total Sample Mass: 52.861 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	0.270	0.511	0.511
-1.75	-1.875	0.000	0.000	0.511
-1.50	-1.625	0.000	0.000	0.511
-1.25	-1.375	0.000	0.000	0.511
-1.00	-1.125	0.099	0.187	0.698
-0.75	-0.875	0.037	0.070	0.768
-0.50	-0.625	0.053	0.100	0.868
-0.25	-0.375	0.048	0.091	0.959
0.00	-0.125	0.108	0.204	1.163
0.25	0.125	0.230	0.435	1.599
0.50	0.375	0.899	1.701	3.299
0.75	0.625	1.842	3.485	6.784
1.00	0.875	5.459	10.327	17.111
1.25	1.125	6.959	13.165	30.276
1.50	1.375	11.437	21.636	51.912
1.75	1.625	11.345	21.462	73.374
2.00	1.875	8.209	15.529	88.903
2.25	2.125	3.513	6.646	95.549
2.50	2.375	1.606	3.038	98.587
2.75	2.625	0.548	1.037	99.624
3.00	2.875	0.131	0.248	99.871
3.25	3.125	0.019	0.036	99.907
3.50	3.375	0.008	0.015	99.922
3.75	3.625	0.003	0.006	99.928
4.00	3.875	0.033	0.062	99.991
5.00	4.50	0.005	0.009	100.000

Statistical Results			
Mean:	1.4422	phi	(0.368 mm)
Standard Dev:	0.5628	phi-units	(0.677 mm)
Skewness:	-1.5320	dimensionless	
Kurtosis:	11.6048	dimensionless	
5th Moment:	-57.3776	dimensionless	
6th Moment:	374.6359	dimensionless	
RARD *	0.3902	dimensionless	
Median	1.3529	phi	(0.3915 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

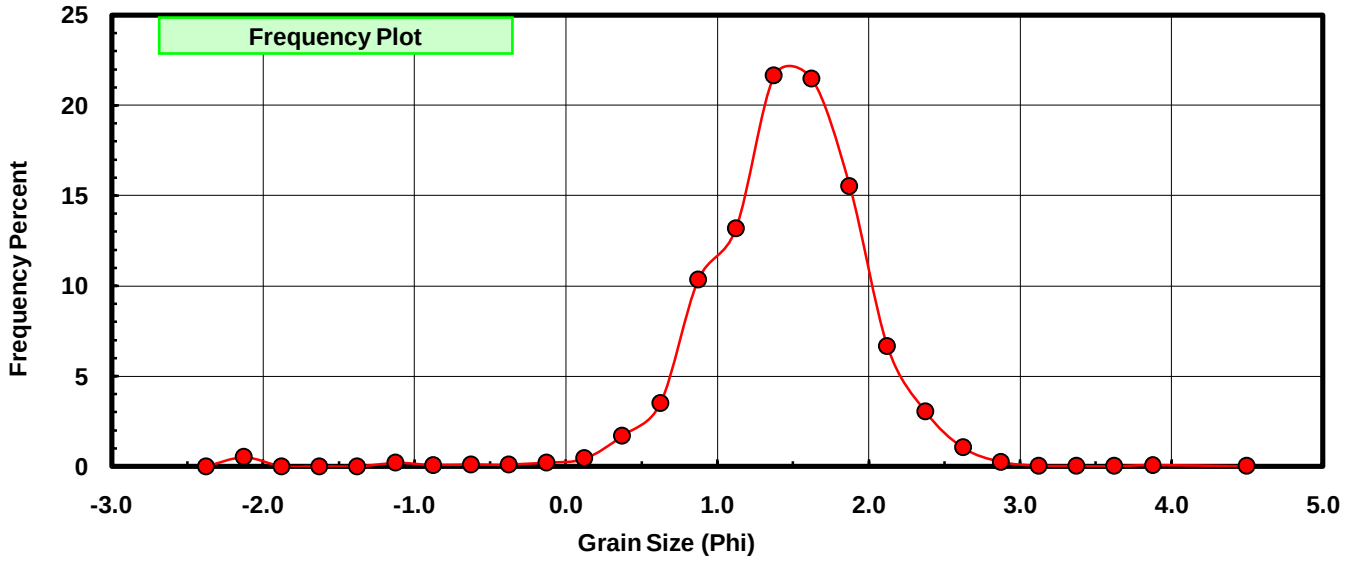
Statistical Explanation

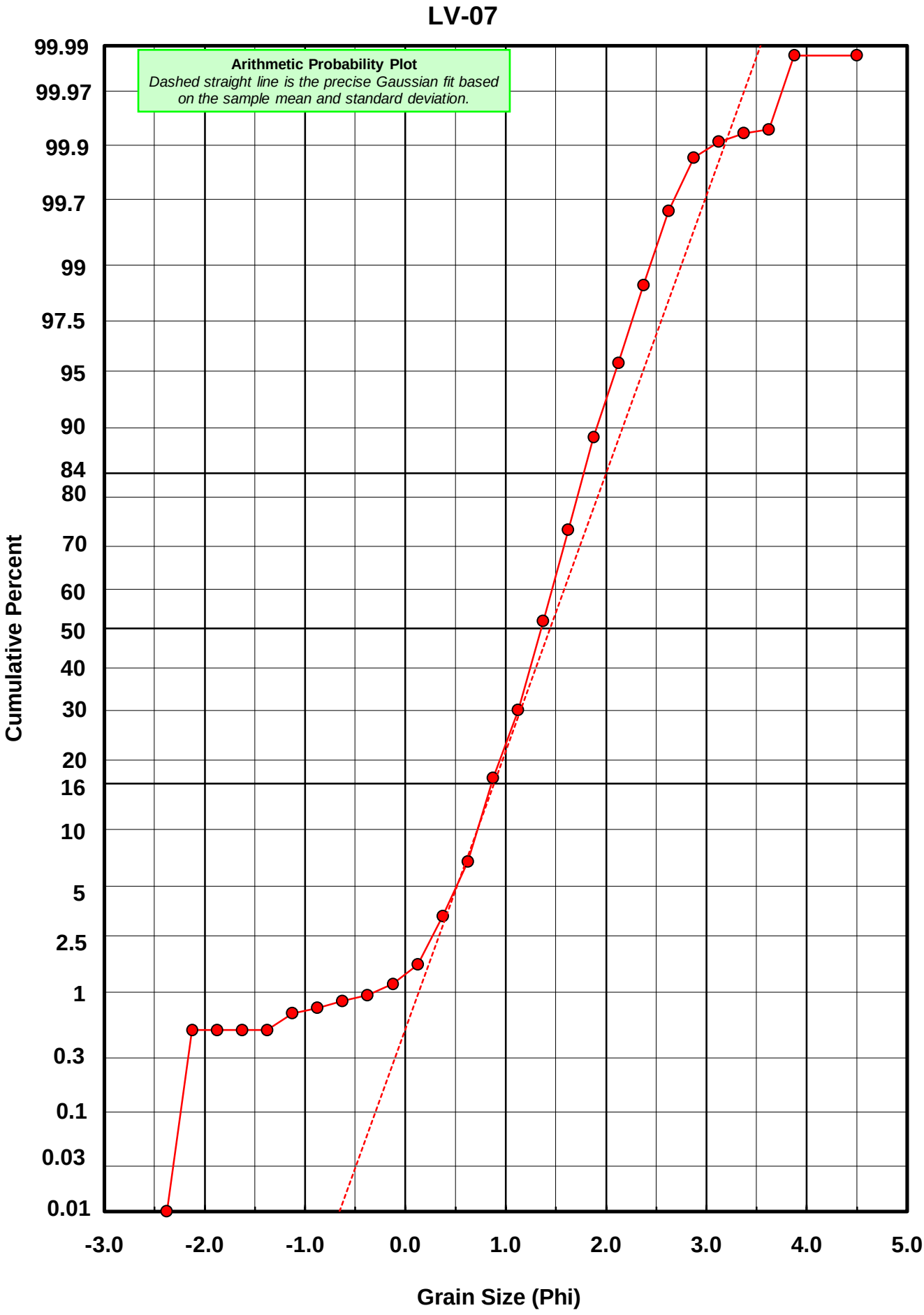
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

For Further Explanation, See Basillle 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)




LV-07
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)