

**Granularmetric Report**  
Depths and elevations based on measured values



Ecological Associates, Inc  
1458 Sunview Terrace  
Jensen Beach, 34957  
(772) 334-3729  
fax (772) 334-4925

Project Name: RaSGA Method Testing

Sample Name: sm-btb0825

Analysis Date: 01-12-09

Analyzed By: MDG

Easting (ft): Northing (ft):

Coordinate System: Elevation (ft):

Florida State Plane East

USCS: **SP** Munsell: Comments:

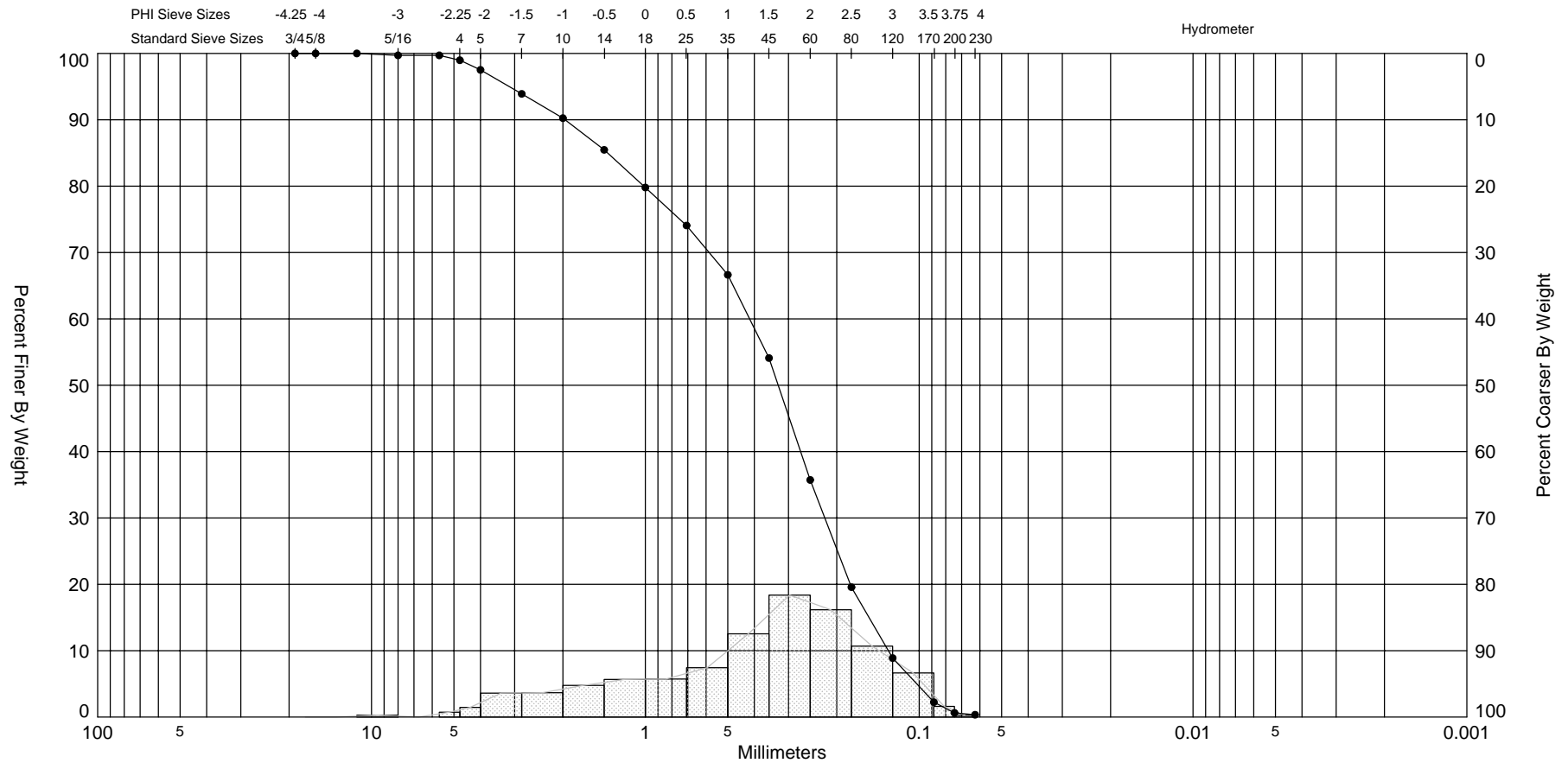
Dry Weight (g): **318.43** Wash Weight (g): Pan Retained (g): Sieve Loss (%): Fines (%): **#200 - 0.63**  
**#230 - 0.35** Organics (%): Carbonates (%): Shells (%):

Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4"	-4.25	19.03		0.00	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00
11/16"	-3.50	11.31	0.00	0.00	0.00	0.00
5/16"	-3.00	8.00	0.91	0.29	0.91	0.29
3.5	-2.50	5.66	0.00	0.00	0.91	0.29
4	-2.25	4.76	2.34	0.73	3.25	1.02
5	-2.00	4.00	4.66	1.46	7.91	2.48
7	-1.50	2.83	11.49	3.61	19.40	6.09
10	-1.00	2.00	11.64	3.66	31.04	9.75
14	-0.50	1.41	15.23	4.78	46.27	14.53
18	0.00	1.00	18.07	5.67	64.34	20.20
25	0.50	0.71	18.24	5.73	82.58	25.93
35	1.00	0.50	23.67	7.43	106.25	33.36
45	1.50	0.35	39.94	12.54	146.19	45.90
60	2.00	0.25	58.51	18.37	204.70	64.27
80	2.50	0.18	51.47	16.16	256.17	80.43
120	3.00	0.13	34.01	10.68	290.18	91.11
170	3.50	0.09	21.18	6.65	311.36	97.76
200	3.75	0.07	5.12	1.61	316.48	99.37
230	4.00	0.06	0.90	0.28	317.38	99.65


Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.29	2.67	2.33	1.61	0.42	-0.37	-1.65
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.28	0.41	1.45	-0.72	2.84	

GRANULARMETRIC REPORT RASGA METHOD TEST.GPJ FL DEP ROSS GDT 01/28/09

SIEVE ANALYSIS: RASGA METHOD TEST.GPJ FL DEP ROSS.GDT 01/28/09



Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
sm-btb0825	—●—		SP	#200 - 0.63 #230 - 0.35			1.61	1.28	-0.72	2.84	1.45	Project Name:	RaSGA Method Testing
Comments:												Analysis Date:	01-12-09
Depths and elevations based on measured values												Analyzed By:	MDG
							Ecological Associates, Inc 1458 Sunview Terrace Jensen Beach, 34957 (772) 334-3729 fax (772) 334-4925					Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	NAD 1983
												Vertical System:	

**Granularmetric Report**  
Depths and elevations based on measured values



Ecological Associates, Inc  
1458 Sunview Terrace  
Jensen Beach, 34957  
(772) 334-3729  
fax (772) 334-4925

Project Name: RaSGA Method Testing

Sample Name: sm-btb0826

Analysis Date: 01-08-09

Analyzed By: MDG

Easting (ft):                      Northing (ft):

Coordinate System:                      Elevation (ft):

Florida State Plane East

USCS:                      Munsell:                      Comments:

SP

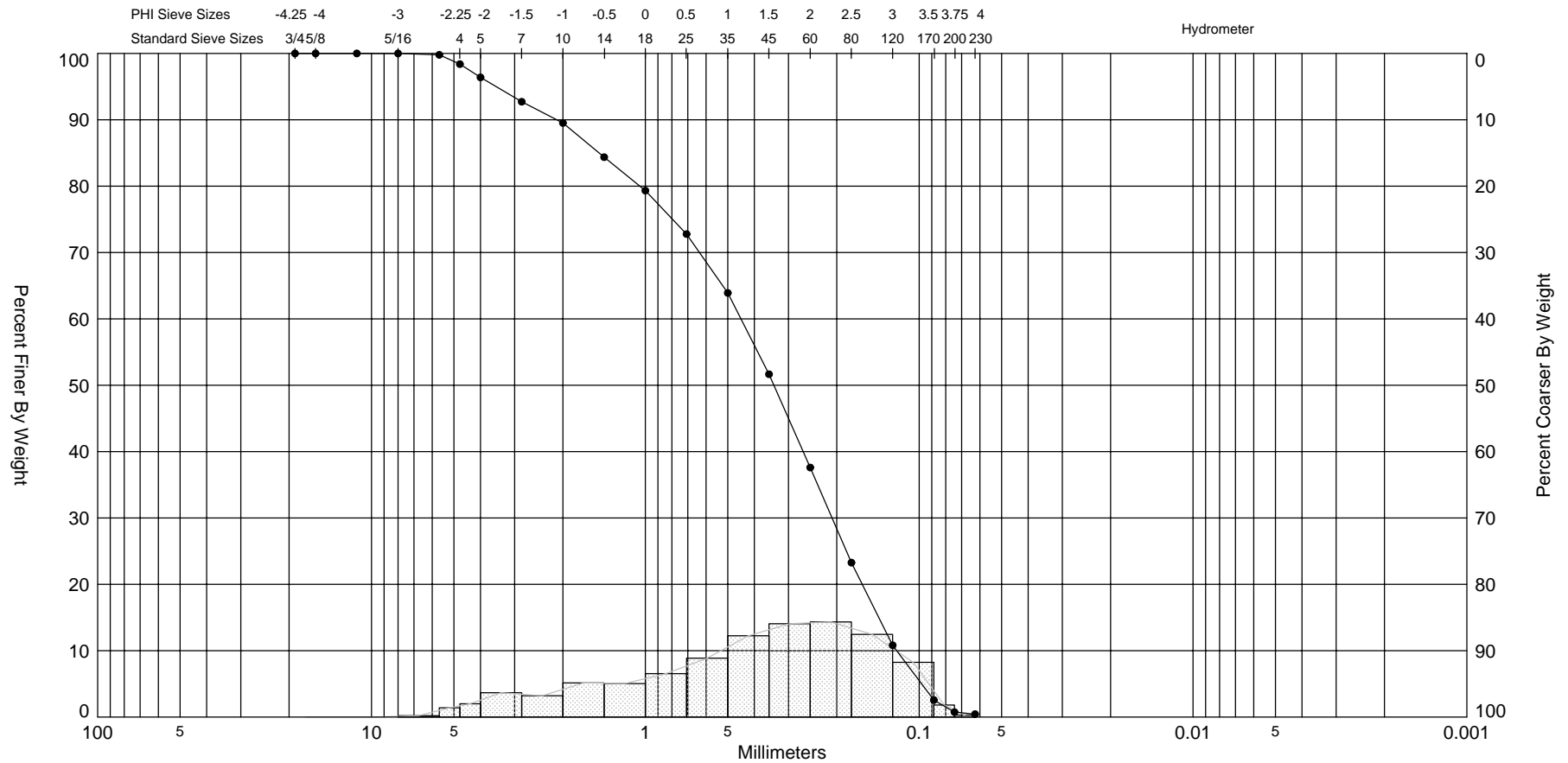
Dry Weight (g):                      Wash Weight (g):                      Pan Retained (g):                      Sieve Loss (%):                      Fines (%):  
303.07                                                                                     #200 - 0.74  
#230 - 0.44                      Organics (%):                      Carbonates (%):                      Shells (%):

Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4"	-4.25	19.03		0.00	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00
11/16"	-3.50	11.31	0.00	0.00	0.00	0.00
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00
3.5	-2.50	5.66	0.64	0.21	0.64	0.21
4	-2.25	4.76	4.25	1.40	4.89	1.61
5	-2.00	4.00	6.06	2.00	10.95	3.61
7	-1.50	2.83	11.13	3.67	22.08	7.28
10	-1.00	2.00	9.71	3.20	31.79	10.48
14	-0.50	1.41	15.61	5.15	47.40	15.63
18	0.00	1.00	15.28	5.04	62.68	20.67
25	0.50	0.71	19.85	6.55	82.53	27.22
35	1.00	0.50	26.88	8.87	109.41	36.09
45	1.50	0.35	37.14	12.25	146.55	48.34
60	2.00	0.25	42.61	14.06	189.16	62.40
80	2.50	0.18	43.44	14.33	232.60	76.73
120	3.00	0.13	37.74	12.45	270.34	89.18
170	3.50	0.09	25.03	8.26	295.37	97.44
200	3.75	0.07	5.52	1.82	300.89	99.26
230	4.00	0.06	0.90	0.30	301.79	99.56


Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.35	2.79	2.44	1.56	0.33	-0.46	-1.81
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.26	0.42	1.52	-0.65	2.62	

GRANULARMETRIC REPORT RASGA METHOD TEST.GPJ FL DEP ROSS GDT 01/28/09

SIEVE ANALYSIS: RASGA METHOD TEST.GPJ FL DEP ROSS.GDT 01/28/09



Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
sm-btb0826	—●—		SP	#200 - 0.74 #230 - 0.44			1.56	1.26	-0.65	2.62	1.52	Project Name:	RaSGA Method Testing
Comments:												Analysis Date:	01-08-09
Depths and elevations based on measured values												Analyzed By:	MDG
							Ecological Associates, Inc 1458 Sunview Terrace Jensen Beach, 34957 (772) 334-3729 fax (772) 334-4925					Easting (X, ft):	
												Northing (Y, ft):	
												Horizontal System:	NAD 1983
												Vertical System:	

# Granularmetric Report

Depths and elevations based on measured values



Ecological Associates, Inc  
1458 Sunview Terrace  
Jensen Beach, 34957  
(772) 334-3729  
fax (772) 334-4925

Project Name: RaSGA Method Testing

Sample Name: SFPStock

Analysis Date: 01-22-09

Analyzed By: MN

Easting (ft):

Northing (ft):

Coordinate System: Elevation (ft):

Florida State Plane East

USCS:

SP

Munsell:

Comments:

Dry Weight (g):

144.94

Wash Weight (g):

Pan Retained (g):

Sieve Loss (%):

Fines (%):  
#200 - 2.20  
#230 - 0.91

Organics (%):

Carbonates (%):

Shells (%):

Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4"	-4.25	19.03		0.00	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00
11/16"	-3.50	11.31	0.00	0.00	0.00	0.00
5/16"	-3.00	8.00	5.65	3.90	5.65	3.90
3.5	-2.50	5.66	0.00	0.00	5.65	3.90
4	-2.25	4.76	0.00	0.00	5.65	3.90
5	-2.00	4.00	0.25	0.17	5.90	4.07
7	-1.50	2.83	0.31	0.21	6.21	4.28
10	-1.00	2.00	0.08	0.06	6.29	4.34
14	-0.50	1.41	0.40	0.28	6.69	4.62
18	0.00	1.00	0.82	0.57	7.51	5.19
25	0.50	0.71	0.81	0.56	8.32	5.75
35	1.00	0.50	0.88	0.61	9.20	6.36
45	1.50	0.35	1.73	1.19	10.93	7.55
60	2.00	0.25	2.78	1.92	13.71	9.47
80	2.50	0.18	4.87	3.36	18.58	12.83
120	3.00	0.13	36.59	25.24	55.17	38.07
170	3.50	0.09	5.74	3.96	60.91	42.03
200	3.75	0.07	80.84	55.77	141.75	97.80
230	4.00	0.06	1.87	1.29	143.62	99.09

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
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3.74	3.69	3.65	3.54	2.74	2.56	-0.17
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Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Statistics	2.91	0.13	1.46	-3.21	13.27

GRANULARMETRIC REPORT RASGA METHOD TEST.GPJ FL DEP ROSS GDT 01/29/09



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Depths and elevations based on measured values



Ecological Associates, Inc  
1458 Sunview Terrace  
Jensen Beach, 34957  
(772) 334-3729  
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Project Name: RaSGA Method Testing

Sample Name: SM-SFP0826

Analysis Date: 02-04-09

Analyzed By: MN

Easting (ft): \_\_\_\_\_ Northing (ft): \_\_\_\_\_

Coordinate System: \_\_\_\_\_ Elevation (ft): \_\_\_\_\_

Florida State Plane East

USCS: **SP** Munsell: \_\_\_\_\_ Comments: \_\_\_\_\_

Dry Weight (g): **161.46** Wash Weight (g): \_\_\_\_\_ Pan Retained (g): \_\_\_\_\_ Sieve Loss (%): \_\_\_\_\_ Fines (%): **#200 - 3.40**  
**#230 - 3.12** Organics (%): \_\_\_\_\_ Carbonates (%): \_\_\_\_\_ Shells (%): \_\_\_\_\_

Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4"	-4.25	19.03		0.00	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00
11/16"	-3.50	11.31	0.00	0.00	0.00	0.00
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00
3.5	-2.50	5.66	0.20	0.12	0.20	0.12
4	-2.25	4.76	1.43	0.89	1.63	1.01
5	-2.00	4.00	1.67	1.03	3.30	2.04
7	-1.50	2.83	6.34	3.93	9.64	5.97
10	-1.00	2.00	7.63	4.73	17.27	10.70
14	-0.50	1.41	9.33	5.78	26.60	16.48
18	0.00	1.00	8.66	5.36	35.26	21.84
25	0.50	0.71	10.20	6.32	45.46	28.16
35	1.00	0.50	12.76	7.90	58.22	36.06
45	1.50	0.35	21.25	13.16	79.47	49.22
60	2.00	0.25	29.73	18.41	109.20	67.63
80	2.50	0.18	23.03	14.26	132.23	81.89
120	3.00	0.13	13.66	8.46	145.89	90.35
170	3.50	0.09	0.19	0.12	146.08	90.47
200	3.75	0.07	9.89	6.13	155.97	96.60
230	4.00	0.06	0.45	0.28	156.42	96.88

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.68	2.62	2.26	1.52	0.25	-0.54	-1.62
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.16	0.45	1.46	-0.49	2.58	

GRANULARMETRIC REPORT RASGA METHOD TEST.GPJ FL DEP ROSS GDT 02/12/09



**Granularmetric Report**  
Depths and elevations based on measured values



Ecological Associates, Inc  
1458 Sunview Terrace  
Jensen Beach, 34957  
(772) 334-3729  
fax (772) 334-4925

Project Name: RaSGA Method Testing

Sample Name: SunshineLand

Analysis Date: 01-27-09

Analyzed By: MN

Easting (ft): \_\_\_\_\_ Northing (ft): \_\_\_\_\_

Coordinate System: \_\_\_\_\_ Elevation (ft): \_\_\_\_\_

Florida State Plane East

USCS: **SP** Munsell: \_\_\_\_\_ Comments: \_\_\_\_\_

Dry Weight (g): **239.84** Wash Weight (g): \_\_\_\_\_ Pan Retained (g): \_\_\_\_\_ Sieve Loss (%): \_\_\_\_\_ Fines (%): **#200 - 0.75**  
**#230 - 0.37** Organics (%): \_\_\_\_\_ Carbonates (%): \_\_\_\_\_ Shells (%): \_\_\_\_\_

Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4"	-4.25	19.03		0.00	0.00	0.00
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00
11/16"	-3.50	11.31	0.00	0.00	0.00	0.00
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00
3.5	-2.50	5.66	0.97	0.40	0.97	0.40
4	-2.25	4.76	0.54	0.23	1.51	0.63
5	-2.00	4.00	1.76	0.73	3.27	1.36
7	-1.50	2.83	5.69	2.37	8.96	3.73
10	-1.00	2.00	7.46	3.11	16.42	6.84
14	-0.50	1.41	10.84	4.52	27.26	11.36
18	0.00	1.00	14.08	5.87	41.34	17.23
25	0.50	0.71	18.82	7.85	60.16	25.08
35	1.00	0.50	25.63	10.69	85.79	35.77
45	1.50	0.35	14.13	5.89	99.92	41.66
60	2.00	0.25	15.57	6.49	115.49	48.15
80	2.50	0.18	31.81	13.26	147.30	61.41
120	3.00	0.13	30.25	12.61	177.55	74.02
170	3.50	0.09	42.68	17.80	220.23	91.82
200	3.75	0.07	17.83	7.43	238.06	99.25
230	4.00	0.06	0.90	0.38	238.96	99.63

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.61	3.28	3.03	2.07	0.49	-0.10	-1.30
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Statistics	1.64	0.32	1.57	-0.6	2.36	

GRANULARMETRIC REPORT RASGA METHOD TEST.GPJ FL DEP ROSS GDT 01/30/09

SIEVE ANALYSIS: RASGA METHOD TEST.GPJ FL DEP ROSS.GDT 01/30/09

