

Granularmetric Report Depths and elevations based on measured values				Scientific Environmental Applications 5575 Willoughby Drive Melbourne, FL 32934 ph 321 254-2708 fax 321 254-2708			
Project Name: Palm Beach County Vibracore 2004							
Sample Name: SI04-9 #1.0							
Analysis Date: 07-01-04							
Analyzed By: SEA Inc.							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
974,940		903,032		Florida State Plane East		-61.1 NAVD 88	
USCS:		Munsell:		Comments:			
SP							
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
103.85	103.00	0.00	0.17	#200 - 1.05 #230 - 1.00		70.59	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
5	-2.00	4.00	0.03	0.03	0.03	0.03	
7	-1.50	2.83	0.01	0.01	0.04	0.04	
10	-1.00	2.00	0.22	0.21	0.26	0.25	
14	-0.50	1.41	0.69	0.66	0.95	0.91	
18	0.00	1.00	1.94	1.87	2.89	2.78	
25	0.50	0.71	5.31	5.11	8.20	7.89	
35	1.00	0.50	11.65	11.21	19.85	19.11	
45	1.50	0.35	19.01	18.30	38.85	37.41	
60	2.00	0.25	26.73	25.74	65.58	63.15	
80	2.50	0.18	25.19	24.26	90.78	87.41	
120	3.00	0.13	9.12	8.78	99.90	96.19	
170	3.50	0.09	2.52	2.42	102.42	98.62	
200	3.75	0.07	0.34	0.33	102.76	98.95	
230	4.00	0.06	0.06	0.06	102.82	99.00	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.93	2.43	2.24	1.74	1.16	0.86	0.22	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.66	0.32	0.79	-0.47	3.35		

GRANULARMETRIC REPORT SINGER_IS.GPJ FL DEP ROSS.GDT 4/28/08

Granularmetric Report Depths and elevations based on measured values				Scientific Environmental Applications 5575 Willoughby Drive Melbourne, FL 32934 ph 321 254-2708 fax 321 254-2708			
Project Name: Palm Beach County Vibracore 2004							
Sample Name: SI04-9 #4.0							
Analysis Date: 07-20-04							
Analyzed By: SEA Inc.							
Easting (ft): <div style="text-align: center;">974,940</div>		Northing (ft): <div style="text-align: center;">903,032</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-64.1 NAVD 88</div>	
USCS: <div style="text-align: center;">SP</div>		Munsell:		Comments:			
Dry Weight (g): <div style="text-align: center;">105.15</div>	Wash Weight (g): <div style="text-align: center;">104.38</div>	Pan Retained (g): <div style="text-align: center;">0.00</div>	Sieve Loss (%): <div style="text-align: center;">-0.14</div>	Fines (%): #200 - 0.61 #230 - 0.60	Organics (%):	Carbonates (%): <div style="text-align: center;">63.38</div>	Shells (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
7	-1.50	2.83	0.02	0.02	0.02	0.02	
10	-1.00	2.00	0.07	0.06	0.09	0.09	
14	-0.50	1.41	0.19	0.18	0.29	0.27	
18	0.00	1.00	0.65	0.62	0.93	0.89	
25	0.50	0.71	2.36	2.24	3.29	3.13	
35	1.00	0.50	7.16	6.81	10.45	9.94	
45	1.50	0.35	16.97	16.14	27.42	26.08	
60	2.00	0.25	33.31	31.68	60.73	57.76	
80	2.50	0.18	33.87	32.21	94.60	89.96	
120	3.00	0.13	8.73	8.31	103.33	98.27	
170	3.50	0.09	1.09	1.04	104.43	99.31	
200	3.75	0.07	0.09	0.08	104.51	99.39	
230	4.00	0.06	0.01	0.01	104.53	99.40	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.80	2.41	2.27	1.88	1.47	1.19	0.64	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.81	0.29	0.62	-0.68	4.07		

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Project Name: Palm Beach County Vibracore 2004							
Sample Name: SI04-9 #7.0							
Analysis Date: 07-20-04							
Analyzed By: SEA Inc.							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
974,940		903,032		Florida State Plane East		-67.1 NAVD 88	
USCS:		Munsell:		Comments:			
SP							
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
76.90	75.93	0.03	0.92	#200 - 2.26 #230 - 2.22		73.23	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
5	-2.00	4.00	0.05	0.07	0.05	0.07	
7	-1.50	2.83	0.06	0.07	0.11	0.14	
10	-1.00	2.00	0.18	0.24	0.30	0.38	
14	-0.50	1.41	0.54	0.70	0.83	1.08	
18	0.00	1.00	1.80	2.34	2.63	3.42	
25	0.50	0.71	4.50	5.85	7.13	9.27	
35	1.00	0.50	7.38	9.59	14.50	18.86	
45	1.50	0.35	9.80	12.75	24.30	31.60	
60	2.00	0.25	18.27	23.76	42.57	55.36	
80	2.50	0.18	22.22	28.90	64.80	84.27	
120	3.00	0.13	8.28	10.77	73.08	95.03	
170	3.50	0.09	1.88	2.44	74.95	97.47	
200	3.75	0.07	0.21	0.27	75.16	97.74	
230	4.00	0.06	0.03	0.04	75.19	97.78	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.00	2.50	2.34	1.89	1.24	0.85	0.14	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.72	0.30	0.83	-0.71	3.45		

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Project Name: Palm Beach County Vibracore 2004							
Sample Name: SI04-9 #11.0							
Analysis Date: 07-01-04							
Analyzed By: SEA Inc.							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
974,940		903,032		Florida State Plane East		-71.1 NAVD 88	
USCS:		Munsell:		Comments:			
SP							
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
94.30	93.47	0.01	-0.08	#200 - 0.82 #230 - 0.80		64.23	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
5	-2.00	4.00	0.06	0.06	0.06	0.06	
7	-1.50	2.83	0.28	0.29	0.34	0.36	
10	-1.00	2.00	0.36	0.38	0.70	0.74	
14	-0.50	1.41	0.82	0.87	1.52	1.61	
18	0.00	1.00	2.30	2.43	3.82	4.05	
25	0.50	0.71	5.80	6.15	9.62	10.20	
35	1.00	0.50	11.71	12.41	21.32	22.61	
45	1.50	0.35	19.34	20.50	40.66	43.12	
60	2.00	0.25	27.15	28.79	67.81	71.91	
80	2.50	0.18	19.57	20.76	87.38	92.66	
120	3.00	0.13	5.10	5.41	92.48	98.08	
170	3.50	0.09	0.94	0.99	93.42	99.07	
200	3.75	0.07	0.10	0.11	93.52	99.18	
230	4.00	0.06	0.02	0.02	93.54	99.20	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.72	2.29	2.07	1.62	1.06	0.73	0.08	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.51	0.35	0.79	-0.71	4.02		

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Project Name: Palm Beach County Vibracore 2004							
Sample Name: SI04-9 #13.0							
Analysis Date: 07-01-04							
Analyzed By: SEA Inc.							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
974,940		903,032		Florida State Plane East		-73.1 NAVD 88	
USCS:		Munsell:		Comments:			
SP							
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
103.81	102.62	0.01	-0.03	#200 - 1.19 #230 - 1.12		64.11	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
5	-2.00	4.00	0.16	0.16	0.16	0.16	
7	-1.50	2.83	0.34	0.33	0.50	0.48	
10	-1.00	2.00	0.37	0.36	0.87	0.84	
14	-0.50	1.41	1.00	0.97	1.87	1.81	
18	0.00	1.00	1.76	1.69	3.63	3.50	
25	0.50	0.71	4.15	4.00	7.78	7.50	
35	1.00	0.50	9.14	8.81	16.93	16.31	
45	1.50	0.35	17.22	16.59	34.14	32.89	
60	2.00	0.25	28.63	27.58	62.78	60.47	
80	2.50	0.18	26.04	25.09	88.82	85.56	
120	3.00	0.13	10.44	10.06	99.26	95.62	
170	3.50	0.09	2.94	2.84	102.20	98.46	
200	3.75	0.07	0.37	0.35	102.57	98.81	
230	4.00	0.06	0.07	0.07	102.64	98.88	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.97	2.47	2.29	1.81	1.26	0.98	0.19	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.72	0.30	0.82	-0.81	4.47		

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Granularmetric Report Depths and elevations based on measured values				Scientific Environmental Applications 5575 Willoughby Drive Melbourne, FL 32934 ph 321 254-2708 fax 321 254-2708			
Project Name: Palm Beach County Vibracore 2004							
Sample Name: SI04-9 #Comp							
Analysis Date: 07-20-04							
Analyzed By: SEA Inc.							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
974,940		903,032		Florida State Plane East		-79.1 NAVD 88	
USCS:		Munsell:		Comments:			
SP							
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
156.71	155.12	0.01	2.09	#200 - 3.15 #230 - 3.11		67.63	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
5/16"	-3.00	8.00	1.56	0.99	1.55	0.99	
3.5	-2.50	5.66	0.60	0.38	2.15	1.37	
5	-2.00	4.00	0.35	0.22	2.50	1.60	
7	-1.50	2.83	0.47	0.30	2.96	1.89	
10	-1.00	2.00	0.65	0.42	3.62	2.31	
14	-0.50	1.41	1.25	0.80	4.87	3.11	
18	0.00	1.00	2.78	1.77	7.64	4.88	
25	0.50	0.71	4.07	2.59	11.71	7.47	
35	1.00	0.50	14.76	9.42	26.47	16.89	
45	1.50	0.35	25.85	16.50	52.32	33.39	
60	2.00	0.25	42.70	27.25	95.02	60.63	
80	2.50	0.18	39.60	25.27	134.62	85.90	
120	3.00	0.13	13.60	8.68	148.22	94.58	
170	3.50	0.09	3.17	2.02	151.39	96.60	
200	3.75	0.07	0.39	0.25	151.77	96.85	
230	4.00	0.06	0.07	0.04	151.84	96.89	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.10	2.46	2.28	1.80	1.25	0.95	0.02	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.68	0.31	0.86	-1.39	7.24		