




GRANULARMETRIC REPORT SIESTA KEY 2-27-14.GPJ FL DEP ROSS.GDT 2/27/14

Granularmetric Report Depths and elevations based on measured values				 Athena Technologies, Inc. 1293 Graham Farm Road McClellanville, SC 29458 ph (843) 887-3800 fax (843) 887-3801			
Project Name: Sarasota County Public Works							
Sample Name: SK-Area1-V09 #A1-V9-1							
Analysis Date: 02-06-14							
Analyzed By: CRM Sr							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
441,749		1,026,675		Florida State Plane West		-41.8 NAVD 88	
USCS:		Munsell:		Comments:			
SP							
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
112.68	111.50			#200 - 1.30 #230 - 1.05			35.00
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	% Passing Sieve	
3/4"	-4.25	19.03		0.00	0.00	100.00	
5/8"	-4.00	16.00		0.00	0.00	100.00	
#3.5	-2.50	5.66		0.05	0.06	99.95	
#4	-2.25	4.76		0.01	0.07	99.94	
#5	-2.00	4.00		0.20	0.30	99.74	
#7	-1.50	2.83		0.75	1.14	98.99	
#10	-1.00	2.00		1.54	2.87	97.45	
#14	-0.50	1.41		2.65	5.86	94.80	
#18	0.00	1.00		6.14	12.78	88.66	
#25	0.50	0.71		9.96	24.00	78.70	
#35	1.00	0.50		13.76	39.51	64.94	
#45	1.50	0.35		14.68	56.05	50.26	
#60	2.00	0.25		20.56	79.22	29.70	
#80	2.50	0.18		13.97	94.96	15.73	
#120	3.00	0.13		11.42	107.83	4.31	
#170	3.50	0.09		2.85	111.04	1.46	
#200	3.75	0.07		0.16	111.22	1.30	
#230	4.00	0.06		0.25	111.50	1.05	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.97	2.49	2.17	1.51	0.63	0.23	-0.54	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.35	0.39	1.08	-0.48	3.02		

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Project Name: Sarasota County Public Works							
Sample Name: SK-Area1-V09 #A1-V9-2							
Analysis Date: 02-06-14							
Analyzed By: CRM Sr							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
441,749		1,026,675		Florida State Plane West		-44.0 NAVD 88	
USCS:		Munsell:		Comments:			
SP							
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
112.34	108.70			#200 - 4.89 #230 - 3.24			18.00
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	% Passing Sieve	
3/4"	-4.25	19.03		0.00	0.00	100.00	
5/8"	-4.00	16.00		0.00	0.00	100.00	
#3.5	-2.50	5.66		0.00	0.00	100.00	
#4	-2.25	4.76		0.08	0.09	99.92	
#5	-2.00	4.00		0.13	0.24	99.79	
#7	-1.50	2.83		0.62	0.94	99.17	
#10	-1.00	2.00		0.82	1.86	98.35	
#14	-0.50	1.41		1.55	3.60	96.80	
#18	0.00	1.00		3.19	7.18	93.61	
#25	0.50	0.71		5.18	13.00	88.43	
#35	1.00	0.50		5.53	19.21	82.90	
#45	1.50	0.35		6.89	26.95	76.01	
#60	2.00	0.25		11.79	40.19	64.22	
#80	2.50	0.18		13.65	55.53	50.57	
#120	3.00	0.13		26.63	85.45	23.94	
#170	3.50	0.09		15.65	103.03	8.29	
#200	3.75	0.07		3.40	106.85	4.89	
#230	4.00	0.06		1.65	108.70	3.24	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.74	3.25	2.98	2.51	1.54	0.90	-0.22	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.1	0.23	1.17	-1.05	3.69		

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Project Name: Sarasota County Public Works							
Sample Name: SK-Area1-V09 #A1-V9-3							
Analysis Date: 02-06-14							
Analyzed By: CRM Sr							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
441,749		1,026,675		Florida State Plane West		-47.8 NAVD 88	
USCS:		Munsell:		Comments:			
SM							
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
101.88	87.79			#200 - 20.38 #230 - 13.83			19.00
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	% Passing Sieve	
3/4"	-4.25	19.03		0.00	0.00	100.00	
5/8"	-4.00	16.00		0.00	0.00	100.00	
#3.5	-2.50	5.66		0.42	0.43	99.58	
#4	-2.25	4.76		0.08	0.51	99.50	
#5	-2.00	4.00		0.00	0.51	99.50	
#7	-1.50	2.83		0.27	0.79	99.23	
#10	-1.00	2.00		0.51	1.31	98.72	
#14	-0.50	1.41		1.09	2.42	97.63	
#18	0.00	1.00		1.90	4.36	95.73	
#25	0.50	0.71		3.09	7.51	92.64	
#35	1.00	0.50		4.41	12.00	88.23	
#45	1.50	0.35		4.27	16.35	83.96	
#60	2.00	0.25		5.98	22.44	77.98	
#80	2.50	0.18		6.06	28.61	71.92	
#120	3.00	0.13		18.02	46.97	53.90	
#170	3.50	0.09		23.82	71.24	30.08	
#200	3.75	0.07		9.70	81.12	20.38	
#230	4.00	0.06		6.55	87.79	13.83	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.92	3.63	3.08	2.25	1.50	0.12	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.52	0.17	1.24	-1.52	5.51		