





Granularmetric Report Depths and elevations based on measured values				 Athena Technologies, Inc. P.O. Box 68 McClellanville, SC 29458 ph 843-887-3800 fax 843-887-3801			
Project Name: New Pass, Sarasota County, FL							
Sample Name: NPVC-14-2 #C							
Analysis Date: 08-20-14							
Analyzed By:							
Easting (ft): <div style="text-align: center;">464,891</div>		Northing (ft): <div style="text-align: center;">1,088,412</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-5.5 NAVD 88</div>	
USCS: <div style="text-align: center;">SP</div>		Munsell: <div style="text-align: center;">Dry - N-6/0</div>		Comments: <div style="text-align: center;">Composite sample collected from 0-8.0'</div>			
Dry Weight (g): <div style="text-align: center;">194.69</div>	Wash Weight (g): <div style="text-align: center;">193.00</div>	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 0.89 #230 - 0.85	Organics (%):	Carbonates (%): <div style="text-align: center;">54.50</div>	Shells (%): <div style="text-align: center;">56.00</div>
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	0.00	100.00	
5/8"	-4.00	16.00	2.80	1.44	2.80	98.56	
#3.5	-2.50	5.66	15.14	7.78	17.94	90.78	
#4	-2.25	4.76	2.76	1.42	20.70	89.36	
#5	-2.00	4.00	2.94	1.51	23.64	87.85	
#7	-1.50	2.83	5.42	2.78	29.06	85.07	
#10	-1.00	2.00	6.92	3.55	35.98	81.52	
#14	-0.50	1.41	8.70	4.47	44.68	77.05	
#18	0.00	1.00	11.58	5.95	56.26	71.10	
#25	0.50	0.71	13.12	6.74	69.38	64.36	
#35	1.00	0.50	14.92	7.66	84.30	56.70	
#45	1.50	0.35	11.33	5.82	95.63	50.88	
#60	2.00	0.25	13.22	6.79	108.85	44.09	
#80	2.50	0.18	21.88	11.24	130.73	32.85	
#120	3.00	0.13	50.73	26.06	181.46	6.79	
#170	3.50	0.09	11.05	5.68	192.51	1.11	
#200	3.75	0.07	0.42	0.22	192.93	0.89	
#230	4.00	0.06	0.07	0.04	193.00	0.85	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.16	2.82	2.65	1.56	-0.33	-1.35	-3.31	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.92	0.53	2.03	-0.84	2.61		

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Project Name: New Pass, Sarasota County, FL							
Sample Name: NPVC-14-2 #1							
Analysis Date: 08-20-14							
Analyzed By:							
Easting (ft): <div style="text-align: center;">464,891</div>		Northing (ft): <div style="text-align: center;">1,088,412</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-7.3 NAVD 88</div>	
USCS: <div style="text-align: center;">SP</div>		Munsell: <div style="text-align: center;">Dry - N-6/0</div>		Comments:			
Dry Weight (g): <div style="text-align: center;">167.32</div>	Wash Weight (g): <div style="text-align: center;">166.59</div>	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 0.44 #230 - 0.43	Organics (%):	Carbonates (%):	Shells (%): <div style="text-align: center;">57.00</div>
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	0.00	100.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	100.00	
#3.5	-2.50	5.66	1.27	0.76	1.27	99.24	
#4	-2.25	4.76	0.19	0.11	1.46	99.13	
#5	-2.00	4.00	0.77	0.46	2.23	98.67	
#7	-1.50	2.83	3.36	2.01	5.59	96.66	
#10	-1.00	2.00	5.08	3.04	10.67	93.62	
#14	-0.50	1.41	8.73	5.22	19.40	88.40	
#18	0.00	1.00	13.59	8.12	32.99	80.28	
#25	0.50	0.71	18.44	11.02	51.43	69.26	
#35	1.00	0.50	17.23	10.30	68.66	58.96	
#45	1.50	0.35	13.51	8.07	82.17	50.89	
#60	2.00	0.25	13.59	8.12	95.76	42.77	
#80	2.50	0.18	26.15	15.63	121.91	27.14	
#120	3.00	0.13	39.65	23.70	161.56	3.44	
#170	3.50	0.09	4.92	2.94	166.48	0.50	
#200	3.75	0.07	0.10	0.06	166.58	0.44	
#230	4.00	0.06	0.01	0.01	166.59	0.43	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.97	2.74	2.55	1.55	0.24	-0.23	-1.23	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.29	0.41	1.4	-0.64	2.66		

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Project Name: New Pass, Sarasota County, FL							
Sample Name: NPVC-14-2 #2							
Analysis Date: 08-20-14							
Analyzed By:							
Easting (ft): <div style="text-align: center;">464,891</div>		Northing (ft): <div style="text-align: center;">1,088,412</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-9.3 NAVD 88</div>	
USCS: <div style="text-align: center;">SP</div>		Munsell: <div style="text-align: center;">Dry - N-7/0</div>		Comments:			
Dry Weight (g): <div style="text-align: center;">186.26</div>	Wash Weight (g): <div style="text-align: center;">185.22</div>	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 0.55 #230 - 0.53	Organics (%):	Carbonates (%):	Shells (%): <div style="text-align: center;">50.00</div>
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	0.00	100.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	100.00	
#3.5	-2.50	5.66	5.61	3.01	5.61	96.99	
#4	-2.25	4.76	1.52	0.82	7.13	96.17	
#5	-2.00	4.00	2.43	1.30	9.56	94.87	
#7	-1.50	2.83	4.35	2.34	13.91	92.53	
#10	-1.00	2.00	4.78	2.57	18.69	89.96	
#14	-0.50	1.41	7.55	4.05	26.24	85.91	
#18	0.00	1.00	9.12	4.90	35.36	81.01	
#25	0.50	0.71	10.44	5.61	45.80	75.40	
#35	1.00	0.50	13.07	7.02	58.87	68.38	
#45	1.50	0.35	14.78	7.94	73.65	60.44	
#60	2.00	0.25	21.05	11.30	94.70	49.14	
#80	2.50	0.18	29.30	15.73	124.00	33.41	
#120	3.00	0.13	51.07	27.42	175.07	5.99	
#170	3.50	0.09	9.83	5.28	184.90	0.71	
#200	3.75	0.07	0.29	0.16	185.19	0.55	
#230	4.00	0.06	0.03	0.02	185.22	0.53	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.09	2.82	2.65	1.96	0.53	-0.31	-2.02	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.4	0.38	1.61	-1.16	3.61		

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Project Name: New Pass, Sarasota County, FL							
Sample Name: NPVC-14-2 #3							
Analysis Date: 08-20-14							
Analyzed By:							
Easting (ft): <div style="text-align: center;">464,891</div>		Northing (ft): <div style="text-align: center;">1,088,412</div>		Coordinate System: <div style="text-align: center;">Florida State Plane West</div>		Elevation (ft): <div style="text-align: center;">-11.3 NAVD 88</div>	
USCS: <div style="text-align: center;">SP</div>		Munsell: <div style="text-align: center;">Dry - N-8/0</div>		Comments:			
Dry Weight (g): <div style="text-align: center;">158.26</div>	Wash Weight (g): <div style="text-align: center;">158.19</div>	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 0.07 #230 - 0.05	Organics (%):	Carbonates (%):	Shells (%): <div style="text-align: center;">19.00</div>
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	0.00	100.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	100.00	
#3.5	-2.50	5.66	0.00	0.00	0.00	100.00	
#4	-2.25	4.76	0.00	0.00	0.00	100.00	
#5	-2.00	4.00	0.18	0.11	0.18	99.89	
#7	-1.50	2.83	0.36	0.23	0.54	99.66	
#10	-1.00	2.00	0.41	0.26	0.95	99.40	
#14	-0.50	1.41	0.31	0.20	1.26	99.20	
#18	0.00	1.00	0.64	0.40	1.90	98.80	
#25	0.50	0.71	1.22	0.77	3.12	98.03	
#35	1.00	0.50	3.52	2.22	6.64	95.81	
#45	1.50	0.35	3.90	2.46	10.54	93.35	
#60	2.00	0.25	7.13	4.51	17.67	88.84	
#80	2.50	0.18	24.48	15.47	42.15	73.37	
#120	3.00	0.13	94.47	59.69	136.62	13.68	
#170	3.50	0.09	21.01	13.28	157.63	0.40	
#200	3.75	0.07	0.53	0.33	158.16	0.07	
#230	4.00	0.06	0.03	0.02	158.19	0.05	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
3.33	2.98	2.91	2.70	2.45	2.16	1.16	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	2.55	0.17	0.67	-2.84	14.58		