





Granularmetric Report Depths and elevations based on measured values				 COASTAL TECH Coastal Geology & Sediments Laboratory 715 North Drive Suite E Melbourne, FL 32934 Phone (321) 751-1135 Fax (321) 751-2343			
Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-A05 #1							
Analysis Date:							
Analyzed By: JB							
Easting (ft): <div style="text-align: center;">930,994</div>		Northing (ft): <div style="text-align: center;">1,077,448</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-38.0 NAVD 88</div>	
USCS: <div style="text-align: center;">SW</div>		Munsell: Wet - 2.5Y-5/3 Dry - 2.5Y-6/2		Comments:			
Dry Weight (g): <div style="text-align: center;">142.49</div>	Wash Weight (g): <div style="text-align: center;">142.49</div>	Pan Retained (g): <div style="text-align: center;">0.13</div>	Sieve Loss (%): <div style="text-align: center;">0.00</div>	Fines (%): #200 - 0.14 #230 - 0.09	Organics (%): <div style="text-align: center;">2.10</div>	Carbonates (%): <div style="text-align: center;">80.70</div>	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	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	0.84	0.59	0.84	0.59	
4	-2.25	4.76	0.25	0.18	1.09	0.77	
5	-2.00	4.00	0.26	0.18	1.35	0.95	
7	-1.50	2.83	0.77	0.54	2.12	1.49	
10	-1.00	2.00	1.42	1.00	3.54	2.49	
14	-0.50	1.41	3.03	2.13	6.57	4.62	
18	0.00	1.00	6.90	4.84	13.47	9.46	
25	0.50	0.71	14.40	10.11	27.87	19.57	
35	1.00	0.50	28.17	19.77	56.04	39.34	
45	1.50	0.35	38.98	27.36	95.02	66.70	
60	2.00	0.25	34.14	23.96	129.16	90.66	
80	2.50	0.18	9.92	6.96	139.08	97.62	
120	3.00	0.13	2.57	1.80	141.65	99.42	
170	3.50	0.09	0.52	0.36	142.17	99.78	
200	3.75	0.07	0.12	0.08	142.29	99.86	
230	4.00	0.06	0.07	0.05	142.36	99.91	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.31	1.86	1.67	1.19	0.64	0.32	-0.46	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.08	0.47	0.87	-1.06	5.67		

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Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-A05 #2							
Analysis Date:							
Analyzed By: JB							
Easting (ft):		Northing (ft):		Coordinate System:		Elevation (ft):	
930,994		1,077,448		Florida State Plane East		-41.0 NAVD 88	
USCS:		Munsell:		Comments:			
SW		Wet - 2.5Y-5/2 Dry - 2.5Y-7/1					
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
141.82	141.82	0.28	0.00	#200 - 0.31 #230 - 0.21	2.10	88.10	
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	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
11/16"	-3.50	11.31	3.85	2.71	3.85	2.71	
5/16"	-3.00	8.00	2.33	1.64	6.18	4.35	
3.5	-2.50	5.66	1.12	0.79	7.30	5.14	
4	-2.25	4.76	0.60	0.42	7.90	5.56	
5	-2.00	4.00	0.70	0.49	8.60	6.05	
7	-1.50	2.83	2.48	1.75	11.08	7.80	
10	-1.00	2.00	3.60	2.54	14.68	10.34	
14	-0.50	1.41	7.44	5.25	22.12	15.59	
18	0.00	1.00	11.25	7.93	33.37	23.52	
25	0.50	0.71	18.56	13.09	51.93	36.61	
35	1.00	0.50	28.75	20.27	80.68	56.88	
45	1.50	0.35	30.03	21.17	110.71	78.05	
60	2.00	0.25	21.10	14.88	131.81	92.93	
80	2.50	0.18	6.52	4.60	138.33	97.53	
120	3.00	0.13	1.99	1.40	140.32	98.93	
170	3.50	0.09	0.87	0.61	141.19	99.54	
200	3.75	0.07	0.21	0.15	141.40	99.69	
230	4.00	0.06	0.14	0.10	141.54	99.79	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.23	1.70	1.43	0.83	0.06	-0.47	-2.59	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.56	0.68	1.35	-1.31	5.12		

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Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-A05 #3							
Analysis Date:							
Analyzed By: JB							
Easting (ft): <div style="text-align: center;">930,994</div>		Northing (ft): <div style="text-align: center;">1,077,448</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-43.5 NAVD 88</div>	
USCS: <div style="text-align: center;">SP</div>		Munsell: Wet - 5Y-4/2 Dry - 5Y-5/2		Comments:			
Dry Weight (g): <div style="text-align: center;">149.43</div>	Wash Weight (g): <div style="text-align: center;">149.43</div>	Pan Retained (g): <div style="text-align: center;">0.52</div>	Sieve Loss (%): <div style="text-align: center;">0.09</div>	Fines (%): #200 - 0.60 #230 - 0.45	Organics (%): <div style="text-align: center;">1.90</div>	Carbonates (%): <div style="text-align: center;">76.10</div>	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	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	0.16	0.11	0.16	0.11	
4	-2.25	4.76	0.05	0.03	0.21	0.14	
5	-2.00	4.00	0.08	0.05	0.29	0.19	
7	-1.50	2.83	0.07	0.05	0.36	0.24	
10	-1.00	2.00	0.66	0.44	1.02	0.68	
14	-0.50	1.41	1.90	1.27	2.92	1.95	
18	0.00	1.00	4.71	3.15	7.63	5.10	
25	0.50	0.71	10.81	7.23	18.44	12.33	
35	1.00	0.50	23.31	15.60	41.75	27.93	
45	1.50	0.35	39.62	26.51	81.37	54.44	
60	2.00	0.25	47.11	31.53	128.48	85.97	
80	2.50	0.18	15.62	10.45	144.10	96.42	
120	3.00	0.13	3.18	2.13	147.28	98.55	
170	3.50	0.09	0.98	0.66	148.26	99.21	
200	3.75	0.07	0.29	0.19	148.55	99.40	
230	4.00	0.06	0.22	0.15	148.77	99.55	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.43	1.97	1.83	1.42	0.91	0.62	-0.02	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.32	0.40	0.75	-0.68	4.95		

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Project Name: 2011 SLC Geotech Investigation							
Sample Name: SLC-11-A05 #4							
Analysis Date:							
Analyzed By: JB							
Easting (ft): <div style="text-align: center;">930,994</div>		Northing (ft): <div style="text-align: center;">1,077,448</div>		Coordinate System: <div style="text-align: center;">Florida State Plane East</div>		Elevation (ft): <div style="text-align: center;">-45.0 NAVD 88</div>	
USCS: <div style="text-align: center;">SW</div>		Munsell: Wet - 2.5Y-5/2 Dry - 2.5Y-7/1		Comments:			
Dry Weight (g): <div style="text-align: center;">139.54</div>	Wash Weight (g): <div style="text-align: center;">136.50</div>	Pan Retained (g): <div style="text-align: center;">0.15</div>	Sieve Loss (%): <div style="text-align: center;">0.12</div>	Fines (%): #200 - 2.62 #230 - 2.43	Organics (%): <div style="text-align: center;">1.90</div>	Carbonates (%): <div style="text-align: center;">85.20</div>	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	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
11/16"	-3.50	11.31	0.76	0.54	0.76	0.54	
5/16"	-3.00	8.00	4.92	3.53	5.68	4.07	
3.5	-2.50	5.66	1.75	1.25	7.43	5.32	
4	-2.25	4.76	0.98	0.70	8.41	6.02	
5	-2.00	4.00	2.38	1.71	10.79	7.73	
7	-1.50	2.83	3.48	2.49	14.27	10.22	
10	-1.00	2.00	4.95	3.55	19.22	13.77	
14	-0.50	1.41	8.14	5.83	27.36	19.60	
18	0.00	1.00	11.35	8.13	38.71	27.73	
25	0.50	0.71	15.87	11.37	54.58	39.10	
35	1.00	0.50	23.28	16.68	77.86	55.78	
45	1.50	0.35	25.14	18.02	103.00	73.80	
60	2.00	0.25	20.03	14.35	123.03	88.15	
80	2.50	0.18	8.08	5.79	131.11	93.94	
120	3.00	0.13	3.00	2.15	134.11	96.09	
170	3.50	0.09	1.36	0.97	135.47	97.06	
200	3.75	0.07	0.44	0.32	135.91	97.38	
230	4.00	0.06	0.27	0.19	136.18	97.57	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.75	1.86	1.54	0.83	-0.17	-0.81	-2.63	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.51	0.70	1.44	-0.88	3.62		