





<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>COASTAL TECH</b> Coastal Geology & Sediments Laboratory  715-E North Dr. Melbourne, Fl. 32934 Phone (321) 751-1135 Fax (321) 751-2343			
Project Name: Gulf County Supplemental							
Sample Name: RC-19 #1							
Analysis Date: 08-10-06							
Analyzed By: JV							
Easting (ft): <b>1,673,736.21</b>		Northing (ft): <b>258,407.65</b>		Coordinate System: <b>Florida State Plane North</b>		Elevation (ft): <b>-35.7 NAVD 88</b>	
USCS: <b>SP</b>		Munsell: <b>Wet - 10YR-8/1</b>		Comments:			
Dry Weight (g): <b>93.13</b>	Wash Weight (g):	Pan Retained (g): <b>0.01</b>	Sieve Loss (%):	Fines (%): <b>#200 - 1.06</b> <b>#230 - 1.06</b>	Organics (%):	Carbonates (%):	Shells (%):
<b>Sieve Number</b>	<b>Sieve Size (Phi)</b>	<b>Sieve Size (Millimeters)</b>	<b>Grams Retained</b>	<b>% Weight Retained</b>	<b>Cum. Grams Retained</b>	<b>C. % Weight Retained</b>	
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	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.00	0.00	0.00	0.00	
5	-2.00	4.00	0.33	0.35	0.33	0.35	
7	-1.50	2.83	0.23	0.25	0.56	0.60	
10	-1.00	2.00	0.75	0.81	1.31	1.41	
14	-0.50	1.41	0.54	0.58	1.85	1.99	
18	0.00	1.00	0.92	0.99	2.77	2.98	
25	0.50	0.71	2.78	2.99	5.55	5.97	
35	1.00	0.50	12.62	13.55	18.17	19.52	
45	1.50	0.35	26.36	28.30	44.53	47.82	
60	2.00	0.25	34.97	37.55	79.50	85.37	
80	2.50	0.18	11.05	11.87	90.55	97.24	
120	3.00	0.13	1.55	1.66	92.10	98.90	
170	3.50	0.09	0.03	0.03	92.13	98.93	
200	3.75	0.07	0.01	0.01	92.14	98.94	
230	4.00	0.06	0.00	0.00	92.14	98.94	
<b>Phi 5</b>	<b>Phi 16</b>	<b>Phi 25</b>	<b>Phi 50</b>	<b>Phi 75</b>	<b>Phi 84</b>	<b>Phi 95</b>	
2.41	1.98	1.86	1.53	1.10	0.87	0.34	
<b>Moment</b>	<b>Mean Phi</b>	<b>Mean mm</b>	<b>Sorting</b>	<b>Skewness</b>	<b>Kurtosis</b>		
<b>Statistics</b>	1.42	0.37	0.67	-1.55	8.12		

<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>COASTAL TECH</b> Coastal Geology & Sediments Laboratory  715-E North Dr. Melbourne, Fl. 32934 Phone (321) 751-1135 Fax (321) 751-2343			
Project Name: Gulf County Supplemental							
Sample Name: RC-19 #2							
Analysis Date: 08-10-06							
Analyzed By: JV							
Easting (ft): <b>1,673,736.21</b>		Northing (ft): <b>258,407.65</b>		Coordinate System: <b>Florida State Plane North</b>		Elevation (ft): <b>-39.2 NAVD 88</b>	
USCS: <b>SP</b>		Munsell: <b>Wet - 10YR-8/1</b>		Comments:			
Dry Weight (g): <b>91.11</b>	Wash Weight (g):	Pan Retained (g): <b>0.03</b>	Sieve Loss (%):	Fines (%): <b>#200 - 0.05</b> <b>#230 - 0.03</b>	Organics (%):	Carbonates (%):	Shells (%):
<b>Sieve Number</b>	<b>Sieve Size (Phi)</b>	<b>Sieve Size (Millimeters)</b>	<b>Grams Retained</b>	<b>% Weight Retained</b>	<b>Cum. Grams Retained</b>	<b>C. % Weight Retained</b>	
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	0.40	0.44	0.40	0.44	
4	-2.25	4.76	0.17	0.19	0.57	0.63	
5	-2.00	4.00	0.15	0.16	0.72	0.79	
7	-1.50	2.83	0.60	0.66	1.32	1.45	
10	-1.00	2.00	0.89	0.98	2.21	2.43	
14	-0.50	1.41	1.26	1.38	3.47	3.81	
18	0.00	1.00	1.25	1.37	4.72	5.18	
25	0.50	0.71	1.65	1.81	6.37	6.99	
35	1.00	0.50	3.34	3.67	9.71	10.66	
45	1.50	0.35	6.81	7.47	16.52	18.13	
60	2.00	0.25	14.66	16.09	31.18	34.22	
80	2.50	0.18	42.71	46.88	73.89	81.10	
120	3.00	0.13	15.95	17.51	89.84	98.61	
170	3.50	0.09	1.16	1.27	91.00	99.88	
200	3.75	0.07	0.06	0.07	91.06	99.95	
230	4.00	0.06	0.02	0.02	91.08	99.97	
<b>Phi 5</b>	<b>Phi 16</b>	<b>Phi 25</b>	<b>Phi 50</b>	<b>Phi 75</b>	<b>Phi 84</b>	<b>Phi 95</b>	
2.90	2.58	2.43	2.17	1.71	1.36	-0.07	
<b>Moment</b>	<b>Mean Phi</b>	<b>Mean mm</b>	<b>Sorting</b>	<b>Skewness</b>	<b>Kurtosis</b>		
<b>Statistics</b>	1.93	0.26	0.92	-2.31	9.56		

<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>COASTAL TECH</b> Coastal Geology & Sediments Laboratory  715-E North Dr. Melbourne, Fl. 32934 Phone (321) 751-1135 Fax (321) 751-2343			
Project Name: Gulf County Supplemental							
Sample Name: RC-19 #3							
Analysis Date: 08-10-06							
Analyzed By: JV							
Easting (ft): <b>1,673,736.21</b>		Northing (ft): <b>258,407.65</b>		Coordinate System: <b>Florida State Plane North</b>		Elevation (ft): <b>-40.7 NAVD 88</b>	
USCS: <b>SW</b>		Munsell: <b>Wet - 10YR-5/1</b>		Comments:			
Dry Weight (g): <b>89.51</b>	Wash Weight (g):	Pan Retained (g): <b>0.38</b>	Sieve Loss (%):	Fines (%): <b>#200 - 0.59</b> <b>#230 - 0.42</b>	Organics (%):	Carbonates (%):	Shells (%):
<b>Sieve Number</b>	<b>Sieve Size (Phi)</b>	<b>Sieve Size (Millimeters)</b>	<b>Grams Retained</b>	<b>% Weight Retained</b>	<b>Cum. Grams Retained</b>	<b>C. % Weight Retained</b>	
5/8"	-4.00	16.00	2.41	2.69	2.41	2.69	
11/16"	-3.50	11.31	0.00	0.00	2.41	2.69	
5/16"	-3.00	8.00	0.43	0.48	2.84	3.17	
3.5	-2.50	5.66	1.17	1.31	4.01	4.48	
4	-2.25	4.76	0.62	0.69	4.63	5.17	
5	-2.00	4.00	0.76	0.85	5.39	6.02	
7	-1.50	2.83	1.99	2.22	7.38	8.24	
10	-1.00	2.00	2.90	3.24	10.28	11.48	
14	-0.50	1.41	1.59	1.78	11.87	13.26	
18	0.00	1.00	1.41	1.58	13.28	14.84	
25	0.50	0.71	3.68	4.11	16.96	18.95	
35	1.00	0.50	4.48	5.01	21.44	23.96	
45	1.50	0.35	5.66	6.32	27.10	30.28	
60	2.00	0.25	9.47	10.58	36.57	40.86	
80	2.50	0.18	19.44	21.72	56.01	62.58	
120	3.00	0.13	29.77	33.26	85.78	95.84	
170	3.50	0.09	3.01	3.36	88.79	99.20	
200	3.75	0.07	0.19	0.21	88.98	99.41	
230	4.00	0.06	0.15	0.17	89.13	99.58	
<b>Phi 5</b>	<b>Phi 16</b>	<b>Phi 25</b>	<b>Phi 50</b>	<b>Phi 75</b>	<b>Phi 84</b>	<b>Phi 95</b>	
2.99	2.82	2.69	2.21	1.08	0.14	-2.31	
<b>Moment</b>	<b>Mean Phi</b>	<b>Mean mm</b>	<b>Sorting</b>	<b>Skewness</b>	<b>Kurtosis</b>		
<b>Statistics</b>	1.55	0.34	1.43	-1.2	4.05		

<b>Granularmetric Report</b> Depths and elevations based on measured values				 <b>COASTAL TECH</b> Coastal Geology & Sediments Laboratory  715-E North Dr. Melbourne, Fl. 32934 Phone (321) 751-1135 Fax (321) 751-2343			
Project Name: Gulf County Supplemental							
Sample Name: RC-19 #4							
Analysis Date: 08-10-06							
Analyzed By: JV							
Easting (ft): <b>1,673,736.21</b>		Northing (ft): <b>258,407.65</b>		Coordinate System: <b>Florida State Plane North</b>		Elevation (ft): <b>-42.2 NAVD 88</b>	
USCS: <b>SP</b>		Munsell: <b>Wet - 10YR-5/1</b>		Comments:			
Dry Weight (g): <b>78.34</b>	Wash Weight (g):	Pan Retained (g): <b>1.26</b>	Sieve Loss (%):	Fines (%): <b>#200 - 1.88</b> <b>#230 - 1.61</b>	Organics (%):	Carbonates (%):	Shells (%):
<b>Sieve Number</b>	<b>Sieve Size (Phi)</b>	<b>Sieve Size (Millimeters)</b>	<b>Grams Retained</b>	<b>% Weight Retained</b>	<b>Cum. Grams Retained</b>	<b>C. % Weight Retained</b>	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
11/16"	-3.50	11.31	0.21	0.27	0.21	0.27	
5/16"	-3.00	8.00	0.00	0.00	0.21	0.27	
3.5	-2.50	5.66	1.26	1.61	1.47	1.88	
4	-2.25	4.76	0.00	0.00	1.47	1.88	
5	-2.00	4.00	0.34	0.43	1.81	2.31	
7	-1.50	2.83	2.38	3.04	4.19	5.35	
10	-1.00	2.00	5.21	6.65	9.40	12.00	
14	-0.50	1.41	4.51	5.76	13.91	17.76	
18	0.00	1.00	4.69	5.99	18.60	23.75	
25	0.50	0.71	7.55	9.64	26.15	33.39	
35	1.00	0.50	11.64	14.86	37.79	48.25	
45	1.50	0.35	11.32	14.45	49.11	62.70	
60	2.00	0.25	9.96	12.71	59.07	75.41	
80	2.50	0.18	9.37	11.96	68.44	87.37	
120	3.00	0.13	6.66	8.50	75.10	95.87	
170	3.50	0.09	1.32	1.68	76.42	97.55	
200	3.75	0.07	0.45	0.57	76.87	98.12	
230	4.00	0.06	0.21	0.27	77.08	98.39	
<b>Phi 5</b>	<b>Phi 16</b>	<b>Phi 25</b>	<b>Phi 50</b>	<b>Phi 75</b>	<b>Phi 84</b>	<b>Phi 95</b>	
2.95	2.36	1.98	1.06	0.06	-0.65	-1.56	
<b>Moment</b>	<b>Mean Phi</b>	<b>Mean mm</b>	<b>Sorting</b>	<b>Skewness</b>	<b>Kurtosis</b>		
<b>Statistics</b>	0.88	0.54	1.39	-0.52	2.85		