





Granularmetric Report Depths and elevations based on measured values				 CB&I Coastal Planning & Engineering, Inc. 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391 8102			
Project Name: Inventory of Potential Beach Nourishment and Coastal Restoration							
Sand Sources on the Atlantic OCS							
Sample Name: FL-BOEM-2015-VC03 #1							
Analysis Date: 10-28-15							
Analyzed By: SMT		Northing (m):		Coordinate System:		Elevation (ft):	
Easting (m):							
566,326		3,082,299		UTM 17		-42.4 NAVD88	
USCS:		Munsell: Wet - 2.5Y-4/3 Dry - 2.5Y-5/3 Washed - 2.5Y-6/3		Comments:			
SW							
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%): #200 - 1.76 #230 - 1.75	Organics (%):	Carbonates (%):	Shell Hash (%):
98.36	96.70	0.01	0.05			85	
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	
7/16"	-3.50	11.31	6.92	7.04	6.92	7.04	
5/16"	-3.00	8.00	1.23	1.25	8.15	8.29	
3.5	-2.50	5.66	1.99	2.02	10.14	10.31	
4	-2.25	4.76	0.27	0.27	10.41	10.58	
5	-2.00	4.00	0.92	0.94	11.33	11.52	
7	-1.50	2.83	1.16	1.18	12.49	12.70	
10	-1.00	2.00	1.21	1.23	13.70	13.93	
14	-0.50	1.41	2.32	2.36	16.02	16.29	
18	0.00	1.00	5.09	5.17	21.11	21.46	
25	0.50	0.71	11.25	11.44	32.36	32.90	
35	1.00	0.50	21.75	22.11	54.11	55.01	
45	1.50	0.35	26.77	27.22	80.88	82.23	
60	2.00	0.25	12.80	13.01	93.68	95.24	
80	2.50	0.18	2.37	2.41	96.05	97.65	
120	3.00	0.13	0.45	0.46	96.50	98.11	
170	3.50	0.09	0.09	0.09	96.59	98.20	
200	3.75	0.07	0.04	0.04	96.63	98.24	
230	4.00	0.06	0.01	0.01	96.64	98.25	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
1.99	1.57	1.37	0.89	0.15	-0.56	-3.72	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	0.39	0.76	1.56	-1.58	4.64		

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Project Name: Inventory of Potential Beach Nourishment and Coastal Restoration							
Sand Sources on the Atlantic OCS							
Sample Name: FL-BOEM-2015-VC03 #2							
Analysis Date: 10-28-15							
Analyzed By: SMT		Northing (m):		Coordinate System:		Elevation (ft):	
Easting (m):							
566,326		3,082,299		UTM 17		-46.4 NAVD88	
USCS:		Munsell: Wet - 2.5Y-4/2 Dry - 2.5Y-5/2 Washed - 2.5Y-6/2		Comments:			
SW				11.49g (1.5" x 1.0") coral fragment removed prior to sieving			
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
90.15	86.37	0.01	0.00	#200 - 4.35 #230 - 4.21		89	
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	
7/16"	-3.50	11.31	2.83	3.14	2.83	3.14	
5/16"	-3.00	8.00	3.95	4.38	6.78	7.52	
3.5	-2.50	5.66	3.97	4.40	10.75	11.92	
4	-2.25	4.76	1.94	2.15	12.69	14.07	
5	-2.00	4.00	3.54	3.93	16.23	18.00	
7	-1.50	2.83	4.41	4.89	20.64	22.89	
10	-1.00	2.00	5.69	6.31	26.33	29.20	
14	-0.50	1.41	7.60	8.43	33.93	37.63	
18	0.00	1.00	9.55	10.59	43.48	48.22	
25	0.50	0.71	10.86	12.05	54.34	60.27	
35	1.00	0.50	11.87	13.17	66.21	73.44	
45	1.50	0.35	10.71	11.88	76.92	85.32	
60	2.00	0.25	5.95	6.60	82.87	91.92	
80	2.50	0.18	2.02	2.24	84.89	94.16	
120	3.00	0.13	0.82	0.91	85.71	95.07	
170	3.50	0.09	0.37	0.41	86.08	95.48	
200	3.75	0.07	0.15	0.17	86.23	95.65	
230	4.00	0.06	0.13	0.14	86.36	95.79	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.96	1.44	1.07	0.07	-1.33	-2.13	-3.29	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	-0.29	1.22	1.61	-0.39	2.42		

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Project Name: Inventory of Potential Beach Nourishment and Coastal Restoration							
Sand Sources on the Atlantic OCS							
Sample Name: FL-BOEM-2015-VC03 #3							
Analysis Date: 10-28-15							
Analyzed By: SMT		Northing (m):		Coordinate System:		Elevation (ft):	
Easting (m):							
566,326		3,082,299		UTM 17		-52.8 NAVD88	
USCS:		Munsell: Wet - 2.5Y-4/1 Dry - 2.5Y-5/1 Washed - 2.5Y-6/1		Comments:			
SW							
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
99.10	97.35	0.01	0.03	#200 - 2.11 #230 - 1.81		65	
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	
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.49	0.49	0.49	0.49	
3.5	-2.50	5.66	0.00	0.00	0.49	0.49	
4	-2.25	4.76	0.09	0.09	0.58	0.58	
5	-2.00	4.00	0.13	0.13	0.71	0.71	
7	-1.50	2.83	0.20	0.20	0.91	0.91	
10	-1.00	2.00	0.90	0.91	1.81	1.82	
14	-0.50	1.41	1.98	2.00	3.79	3.82	
18	0.00	1.00	4.57	4.61	8.36	8.43	
25	0.50	0.71	6.66	6.72	15.02	15.15	
35	1.00	0.50	10.98	11.08	26.00	26.23	
45	1.50	0.35	21.42	21.61	47.42	47.84	
60	2.00	0.25	30.46	30.74	77.88	78.58	
80	2.50	0.18	14.89	15.03	92.77	93.61	
120	3.00	0.13	3.16	3.19	95.93	96.80	
170	3.50	0.09	0.67	0.68	96.60	97.48	
200	3.75	0.07	0.41	0.41	97.01	97.89	
230	4.00	0.06	0.30	0.30	97.31	98.19	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.72	2.18	1.94	1.54	0.94	0.54	-0.37	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.34	0.40	0.93	-1.17	6.26		

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Project Name: Inventory of Potential Beach Nourishment and Coastal Restoration							
Sand Sources on the Atlantic OCS							
Sample Name: FL-BOEM-2015-VC03 #4							
Analysis Date: 10-28-15							
Analyzed By: DA		Northing (m):		Coordinate System:		Elevation (ft):	
Easting (m):							
566,326		3,082,299		UTM 17		-57.7 NAVD88	
USCS:		Munsell: Wet - 2.5Y-4/2 Dry - 2.5Y-5/2 Washed - 2.5Y-6/1		Comments:			
SW							
Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shell Hash (%):
96.59	94.53	0.00	0.00	#200 - 2.23 #230 - 2.13		73	
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	
7/16"	-3.50	11.31	0.96	0.99	0.96	0.99	
5/16"	-3.00	8.00	0.00	0.00	0.96	0.99	
3.5	-2.50	5.66	0.09	0.09	1.05	1.08	
4	-2.25	4.76	0.13	0.13	1.18	1.21	
5	-2.00	4.00	0.16	0.17	1.34	1.38	
7	-1.50	2.83	0.82	0.85	2.16	2.23	
10	-1.00	2.00	2.19	2.27	4.35	4.50	
14	-0.50	1.41	2.25	2.33	6.60	6.83	
18	0.00	1.00	5.13	5.31	11.73	12.14	
25	0.50	0.71	6.87	7.11	18.60	19.25	
35	1.00	0.50	11.51	11.92	30.11	31.17	
45	1.50	0.35	16.32	16.90	46.43	48.07	
60	2.00	0.25	27.04	27.99	73.47	76.06	
80	2.50	0.18	16.66	17.25	90.13	93.31	
120	3.00	0.13	3.65	3.78	93.78	97.09	
170	3.50	0.09	0.48	0.50	94.26	97.59	
200	3.75	0.07	0.17	0.18	94.43	97.77	
230	4.00	0.06	0.10	0.10	94.53	97.87	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
2.72	2.23	1.98	1.53	0.74	0.27	-0.89	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	1.23	0.43	1.11	-1.5	6.58		