

APPENDIX 4
BEACH COMPOSITE SUMMARY TABLES

**PROFILE LINE COMPOSITE SUMMARY TABLE
OCEAN ISLE BEACH 2013 NATIVE BEACH SAMPLES**

PROFILE	MEAN (mm)	PHI MEAN	PHI SORTING	SILT (%)	WET MUNSELL VALUE	DRY MUNSELL VALUE	CARBONATE (%)
OIB000 COMPOSITE	0.24	2.05	0.86	1.23	5	7	5
OIB010 COMPOSITE	0.23	2.10	0.78	1.64	5	7	5
OIB025 COMPOSITE	0.26	1.94	1.05	1.93	5	7	7
OIB040 COMPOSITE	0.17	2.54	0.89	0.94	-	-	-
OIB060 COMPOSITE	0.26	1.92	0.91	1.12	5	7	-
DUNE COMPOSITE	0.23	2.13	0.46	0.69	6	8	
TOE OF DUNE COMPOSITE	0.23	2.12	0.72	0.33	7	7	
MID BERM COMPOSITE	0.26	1.96	0.79	0.23	6	7	
BERM CREST COMPOSITE	0.24	2.03	0.72	0.22	6	7	
MHW COMPOSITE	0.23	2.15	0.56	0.70	5	7	
MTL COMPOSITE	0.26	1.95	0.67	0.78	5	7	
MLW COMPOSITE	0.37	1.45	1.13	0.80	5	7	
TROUGH COMPOSITE	0.25	2.02	1.03	0.88	5	7	
BAR CREST COMPOSITE	0.27	1.88	0.84	1.03	5	6	
-8.75 NAVD COMPOSITE	0.20	2.34	0.86	1.13	5	6	
-12.5 NAVD COMPOSITE	0.14	2.86	0.60	1.75	4	6	
-16.25 NAVD COMPOSITE	0.13	2.93	0.65	2.97	4	6	
-20.0 NAVD COMPOSITE	0.14	2.83	0.92	4.30	4	6	
TOTAL BEACH COMPOSITE	0.23	2.11	0.92	1.34	5	7	6

(-) indicates value not tested.

**PROFILE LINE COMPOSITE DATA TABLE
OCEAN ISLE BEACH 2013 NATIVE BEACH SAMPLES**

PROFILE	MEAN (mm)	PHI MEAN	PHI SORTING	% SILT	WET MUNSELL VALUE	DRY MUNSELL VALUE	CUMULATIVE PERCENT RETAINED (SIEVES EXPRESSED IN PHI)																				FINES PAN	% CARBONATE	
							GRAVEL				GRANULAR				SAND														
							-4.25	-4.00	-3.50	-3.00	-2.50	-2.25	-2.00	-1.5	-1.0	-0.5	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	3.75	4.0			
OIB000 COMPOSITE	0.24	2.05	0.86	1.23	5	7	0.00	0.00	0.14	0.17	0.25	0.27	0.32	0.44	0.57	0.80	1.31	3.12	10.22	22.36	41.89	64.91	89.21	97.89	98.66	98.80	99.97		5
OIB010 COMPOSITE	0.23	2.10	0.78	1.64	5	7	0.00	0.00	0.02	0.03	0.04	0.06	0.10	0.15	0.20	0.31	0.58	1.76	7.36	20.72	44.71	66.06	86.43	96.78	98.10	98.36	99.96		5
OIB025 COMPOSITE	0.26	1.94	1.05	1.93	5	7	0.00	0.00	0.27	0.49	0.62	0.72	0.87	1.20	1.58	2.22	3.29	5.33	11.51	25.27	47.46	67.52	85.82	96.15	97.69	98.09	99.94		7
OIB040 COMPOSITE	0.17	2.54	0.89	0.94	-	-	0.00	0.00	0.45	0.45	0.53	0.61	0.61	0.64	0.68	0.73	0.81	1.00	3.56	6.12	23.84	46.26	68.67	83.50	98.33	99.16	100.00		-
OIB060 COMPOSITE	0.26	1.92	0.91	1.12	5	7	0.00	0.00	0.09	0.14	0.27	0.33	0.48	0.73	1.13	1.76	2.80	5.50	13.37	26.04	48.00	72.31	91.81	98.07	98.72	98.88	99.96		-
TOTAL BEACH COMPOSITE	0.23	2.11	0.92	1.34	5	7	0.00	0.00	0.19	0.25	0.34	0.40	0.48	0.64	0.83	1.17	1.76	3.34	9.21	20.10	41.18	63.41	84.39	94.48	98.30	98.66	99.97		6

(-) indicates value not tested.

**CUMULATIVE PERCENTS AND COMPUTED DISTRIBUTION FOR PROFILE LINES
OCEAN ISLE BEACH 2013 NATIVE BEACH SAMPLES (1 of 2)**

SAMPLE I. D. (NAVD88, FT)	MEAN (mm)	PHI MEAN	PHI SORTING	% SILT	WET MUNSELL VALUE	DRY MUNSELL VALUE	CUMULATIVE PERCENT RETAINED (SIEVES EXPRESSED IN PHI)																	FINES PAN			
							GRAVEL					GRANULAR			SAND												
							-4.25	-4.00	-3.50	-3.00	-2.50	-2.25	-2.00	-1.5	-1.0	-0.5	0.0	0.5	1.0	1.5	2.0	2.5	3.0		3.5	3.75	4.0
OIB000 Dune	0.23	2.12	0.39	0.10	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.16	3.46	37.26	85.63	98.53	99.82	99.89	99.90	99.99	
OIB000 Dune Toe	0.30	1.75	0.50	0.14	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.65	6.18	28.57	69.80	94.54	99.09	99.80	99.85	99.86	99.98	
OIB000 Mid Berm	0.40	1.32	0.66	0.08	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.22	1.03	8.92	35.04	61.41	84.57	95.94	99.36	99.89	99.92	99.96	
OIB000 Berm Crest	0.35	1.50	0.55	0.14	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05	0.09	0.12	0.19	1.11	16.93	51.94	82.61	96.14	99.41	99.82	99.85	99.86	99.97
OIB000 MHW	0.24	2.04	0.50	1.30	5	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.18	0.72	3.15	10.55	42.38	83.93	97.79	98.67	98.70	99.73	
OIB000 MTL	0.24	2.04	0.62	1.00	4	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.10	0.37	4.41	20.99	45.17	73.28	96.01	98.89	98.99	99.00	99.99
OIB000 MLW	0.40	1.31	0.86	0.94	6	7	0.00	0.00	0.00	0.34	0.34	0.34	0.43	0.68	0.99	1.85	4.30	12.64	37.59	58.25	76.88	91.40	98.37	99.04	99.06	100.00	
OIB000 Trough	0.26	1.92	1.07	0.93	6	7	0.00	0.00	0.00	0.00	0.77	0.93	1.31	2.06	2.74	3.92	5.87	8.38	14.36	25.02	41.41	64.90	92.52	98.83	99.04	99.07	100.00
OIB000 Bar Crest	0.22	2.17	0.66	1.08	5	6	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.18	0.33	0.55	0.86	1.87	5.20	13.04	31.29	65.98	95.34	98.72	98.90	99.98	
OIB000 -8.75 NAVD	0.18	2.46	0.69	1.51	5	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.14	0.35	0.75	1.71	4.41	9.39	18.32	39.11	82.80	97.25	98.24	98.49	100.00
OIB000 -12.5 NAVD	0.14	2.79	0.46	2.20	5	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.12	0.24	0.44	0.99	1.91	3.46	13.85	71.60	95.26	97.38	97.80	100.00
OIB000 -16.25 NAVD	0.14	2.86	0.43	3.09	4	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.05	0.09	0.21	0.46	0.91	2.54	12.70	60.66	93.64	96.66	96.91	100.00
OIB000 -20.0 NAVD	0.17	2.56	1.14	3.08	4	6	0.00	0.00	1.85	1.85	2.16	2.19	2.35	2.66	2.92	3.12	3.27	3.50	4.03	5.26	6.82	26.40	68.20	92.91	96.13	96.92	100.00
OIB000 COMPOSITE	0.24	2.05	0.86	1.23	5	7	0.00	0.00	0.14	0.17	0.25	0.27	0.32	0.44	0.57	0.80	1.31	3.12	10.22	22.36	41.89	64.91	89.21	97.89	98.66	98.80	99.97
OIB010 Dune	0.22	2.21	0.49	0.28	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.15	6.39	32.62	72.65	95.32	99.29	99.64	99.72	99.92	
OIB010 Dune Toe	0.31	1.69	0.43	0.35	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.12	0.22	4.25	30.86	79.70	96.90	99.18	99.63	99.65	99.91	
OIB010 Mid Berm	0.32	1.64	0.40	0.23	5	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.24	4.12	34.78	84.64	98.65	99.64	99.76	99.77	99.77	99.99	
OIB010 Berm Crest	0.34	1.57	0.47	0.23	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.10	0.24	1.07	9.88	41.92	84.63	98.34	99.59	99.76	99.77	99.96	
OIB010 MHW	0.28	1.85	0.45	0.45	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.05	0.31	2.61	19.18	64.71	93.31	99.24	99.53	99.55	99.55	99.97
OIB010 MTL	0.28	1.83	0.56	0.90	4	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.14	0.63	6.77	27.02	60.25	88.27	98.49	99.09	99.10	100.00	
OIB010 MLW	0.45	1.15	0.71	1.12	5	7	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.10	0.16	0.51	2.12	12.62	50.82	70.76	84.28	94.76	98.64	98.87	98.88	99.94	
OIB010 Trough	0.19	2.37	0.58	1.03	4	7	0.00	0.00	0.00	0.00	0.01	0.01	0.20	0.25	0.27	0.44	0.67	1.13	2.51	6.10	16.14	53.02	92.98	98.78	98.94	99.00	100.00
OIB010 Bar Crest	0.22	2.18	0.54	1.17	5	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.22	0.51	2.34	9.72	32.33	69.67	96.06	98.76	98.83	99.85	
OIB010 -8.75 NAVD	0.21	2.28	0.77	1.52	5	6	0.00	0.00	0.00	0.00	0.04	0.08	0.14	0.25	0.41	0.72	1.31	2.81	7.00	13.80	24.81	52.00	87.82	97.51	98.29	98.48	100.00
OIB010 -12.5 NAVD	0.13	2.96	0.45	2.66	4	6	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.09	0.12	0.17	0.27	0.56	1.19	2.67	7.69	49.42	91.24	96.20	97.34	100.00
OIB010 -16.25 NAVD	0.15	2.77	0.74	4.03	4	6	0.00	0.00	0.00	0.00	0.04	0.20	0.36	0.57	0.73	0.96	1.17	1.57	2.55	4.53	9.26	18.96	54.79	90.87	95.85	95.97	100.00
OIB010 -20.0 NAVD	0.14	2.83	0.77	7.33	4	6	0.00	0.00	0.25	0.33	0.43	0.43	0.49	0.73	0.90	1.07	1.23	1.52	2.11	3.05	5.23	14.62	52.45	84.99	90.83	92.67	100.00
OIB010 COMPOSITE	0.23	2.10	0.78	1.64	5	7	0.00	0.00	0.02	0.03	0.04	0.06	0.10	0.15	0.20	0.31	0.58	1.76	7.36	20.72	44.71	66.06	86.43	96.78	98.10	98.36	99.96
OIB025 Dune	0.27	1.87	0.44	2.17	6	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	1.69	16.89	62.83	91.31	97.18	97.81	97.83	97.83	99.92	
OIB025 Dune Toe	0.31	1.68	0.45	0.18	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.32	4.80	34.06	78.23	96.70	99.42	99.80	99.82	100.00	
OIB025 Mid Berm	0.31	1.67	0.62	0.31	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.40	0.60	1.05	2.65	11.41	35.30	72.04	93.19	98.78	99.65	99.69	100.00	
OIB025 Berm Crest	0.30	1.72	0.46	0.37	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.11	0.37	4.35	30.36	74.86	96.23	99.17	99.61	99.63	99.92	
OIB025 MHW	0.25	2.02	0.45	1.19	5	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	1.07	11.04	46.50	86.83	97.74	98.76	98.81	98.81	99.88	
OIB025 MTL	0.28	1.84	0.67	0.99	5	7	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.12	0.14	0.29	1.21	12.11	30.87	54.41	82.97	97.93	98.98	99.01	100.00	
OIB025 MLW	0.69	0.54	1.39	0.97	5	7	0.00	0.00	2.55	4.85	5.58	6.13	7.11	8.66	10.71	15.36	23.88	38.52	60.28	76.59	88.36	95.98	98.85	99.02	99.03	99.89	
OIB025 Trough	0.23	2.15	0.91	1.57	4	7	0.00	0.00	0.00	0.47	0.85	1.26	1.48	1.92	2.28	2.73	3.40	4.18	6.26	10.66	23.15	64.48	94.84	98.27	98.40	98.43	99.92
OIB025 Bar Crest	0.38	1.39	0.91	1.13	5	6	0.00	0.00	0.00	0.00	0.00	0.08	0.35	1.43	2.45	3.73	5.97	11.06	28.45	53.16	73.41	89.69	98.10	98.86	98.87	99.92	
OIB025 -8.75 NAVD	0.18	2.48	0.96	1.74	4	6	0.00	0.00	0.43	0.43	0.57	0.71	0.77	1.12	1.48	2.11	2.95	4.34	7.05	10.50	15.42	28.75	76.75	96.32	97.87	98.26	99.99
OIB025 -12.5 NAVD	0.13	2.94	0.48	2.18	4	6	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.12	0.19	0.25	0.30	0.40	0.74	1.40	2.67	7.88	51.47	91.06	96.68	97.82	100.00
OIB025 -16.25 NAVD	0.14	2.81	0.74	4.93	4	6	0.00	0.00	0.00	0.11	0.11	0.13	0.19	0.38	0.56	0.79	1.00	1.44	3.22	5.58	8.78	16.52	50.77	88.33	94.24	95.07	99.79
OIB025 -20.0 NAVD	0.17	2.56	1.15	7.06	4	6	0.00	0.00	0.47	0.47	0.90	1.02	1.26	1.70	2.38	3.12	3.70	4.64	8.24	12.12	16.30	27.28	54.66	83.54	90.07	92.94	100.00
OIB025 COMPOSITE	0.26	1.94	1.05	1.93	5	7	0.00	0.00	0.27	0.49	0.62	0.72	0.87	1.20	1.58	2.22	3.29	5.33	11.51	25.27	47.46	67.52	85.82	96.15	97.69	98.09	99.94

**CUMULATIVE PERCENTS AND COMPUTED DISTRIBUTION FOR PROFILE LINES
OCEAN ISLE BEACH 2013 NATIVE BEACH SAMPLES (2 of 2)**

USACE SAMPLE I. D. (NAVD88, FT)	MEAN (mm)	PHI MEAN ⁽¹⁾	PHI SORTING ⁽¹⁾	% SILT	WET MUNSELL VALUE	DRY MUNSELL VALUE	CUMULATIVE PERCENT RETAINED (SIEVES EXPRESSED IN PHI)																	FINES PAN				
							GRAVEL					GRANULAR			SAND													
							-4.25	-4.00	-3.50	-3.00	-2.50	-2.25	-2.00	-1.5	-1.0	-0.5	0.0	0.5	1.0	1.5	2.0	2.5	3.0		3.5	3.75	4.0	
OIB040 Dune	0.27	1.91	0.47	0.18	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.16	2.33	16.54	58.24	90.4	98.9	99.75	99.81	99.82	99.94	
OIB040 Dune Toe	0.14	2.84	0.67	0.95	-	-	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.12	0.19	0.21	0.29	0.48	0.95	1.41	8.13	31.80	55.46	76.78	98.09	99.05	100.00	
OIB040 Mid Berm	0.16	2.61	0.56	0.39	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.04	0.18	0.32	12.66	45.25	77.84	88.53	99.22	99.61	100.00	
OIB040 Berm Crest	0.17	2.59	0.45	0.11	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	5.99	45.90	85.80	92.79	99.78	99.89	100.00	
OIB040 MHW	0.21	2.27	0.62	0.37	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	2.36	4.71	39.64	64.39	89.14	94.20	99.25	99.63	100.00	
OIB040 MTL	0.23	2.11	0.79	0.57	-	-	0.00	0.00	0.00	0.00	0.00	0.17	0.17	0.17	0.17	0.18	0.23	0.50	9.04	17.58	48.55	67.97	87.39	93.13	98.86	99.43	100.00	
OIB040 MLW	0.21	2.28	0.88	0.57	-	-	0.00	0.00	0.00	0.88	1.08	1.08	1.12	1.15	1.18	1.26	1.52	5.10	8.68	35.42	59.09	82.76	90.81	98.85	99.43	100.00		
OIB040 Trough	0.31	1.69	1.45	0.49	-	-	0.00	0.00	5.43	5.43	5.43	5.43	5.43	5.47	5.51	5.61	5.75	5.96	11.98	17.99	60.94	77.66	94.38	96.70	99.02	99.51	99.99	
OIB040 Bar Crest	0.22	2.16	0.84	0.51	-	-	0.00	0.00	0.00	0.00	0.45	0.45	0.60	0.75	0.95	1.30	2.07	7.74	13.40	43.69	65.41	87.12	93.05	98.97	99.49	100.00		
OIB040 -9.0 NAVD	0.17	2.59	0.71	0.40	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.06	0.13	0.30	2.54	4.78	19.52	45.14	70.76	84.98	99.20	99.60	99.99		
OIB040 -13.0 NAVD	0.13	2.95	0.69	0.73	-	-	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.14	0.20	0.29	0.41	0.63	1.58	2.53	6.36	24.90	43.44	70.99	98.54	99.27	100.00	
OIB040 -17.0 NAVD	0.11	3.15	0.53	1.85	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.05	0.08	0.14	0.35	0.55	1.60	15.11	28.62	62.46	96.30	98.15	100.00	
OIB040 -19.0 NAVD	0.11	3.20	0.59	3.07	-	-	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.08	0.10	0.19	0.27	0.39	0.92	1.44	3.60	12.48	21.36	57.61	93.86	96.93	100.00	
(-) indicates value not tested. Values in RED indicate interpolated values.																												
OIB040 COMPOSITE	0.17	2.54	0.89	0.94	-	-	0.00	0.00	0.45	0.45	0.53	0.61	0.61	0.64	0.68	0.73	0.81	1.00	3.56	6.12	23.84	46.26	68.67	83.50	98.33	99.16	100.00	
OIB060 Dune	0.20	2.30	0.43	0.23	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.48	3.50	20.01	69.24	96.78	99.59	99.76	99.77	100.00	
OIB060 Dune Toe	0.31	1.69	0.68	0.26	6	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.15	0.73	4.77	18.02	33.55	64.29	91.20	98.62	99.62	99.71	99.74	100.00	
OIB060 Mid Berm	0.29	1.81	0.49	0.29	6	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.14	2.68	25.12	67.28	92.55	98.43	99.57	99.69	99.71	100.00	
OIB060 Berm Crest	0.25	2.01	0.37	0.52	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.38	5.47	49.75	92.80	98.98	99.44	99.48	99.48	99.89	
OIB060 MHW	0.31	1.70	0.74	1.18	5	6	0.00	0.00	0.00	0.00	0.09	0.09	0.28	0.69	0.99	1.56	2.47	4.45	12.43	32.82	63.91	88.51	97.91	98.77	98.81	98.82	99.89	
OIB060 MTL	0.24	2.06	0.63	1.01	5	7	0.00	0.00	0.00	0.00	0.09	0.09	0.09	0.16	0.23	0.45	0.94	1.92	5.28	14.97	38.96	76.04	97.03	98.92	98.98	98.99	100.00	
OIB060 MLW	0.50	0.99	1.15	0.93	5	7	0.00	0.00	0.00	0.66	1.38	1.78	2.97	4.18	5.86	9.20	14.99	26.65	46.28	63.33	80.87	93.32	98.65	99.05	99.07	99.07	99.92	
OIB060 Trough	0.22	2.17	0.56	1.05	4	7	0.00	0.00	0.00	0.00	0.12	0.17	0.17	0.21	0.26	0.34	0.53	0.90	2.58	9.03	29.40	73.19	96.96	98.89	98.94	98.95	100.00	
OIB060 Bar Crest	0.35	1.50	0.82	1.28	5	6	0.00	0.00	0.00	0.00	0.62	0.62	0.66	0.98	1.35	1.82	3.03	6.50	22.04	48.53	74.04	89.32	97.59	98.69	98.71	98.72	99.84	
OIB060 -8.75 NAVD	0.16	2.66	0.64	1.69	4	6	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.31	0.44	0.76	1.10	1.70	2.97	4.71	7.96	21.62	76.57	96.51	98.00	98.31	100.00	
OIB060 -12.5 NAVD	0.15	2.76	0.88	1.88	4	6	0.00	0.00	1.14	1.14	1.14	1.14	1.25	1.39	1.60	1.78	1.93	2.14	2.43	2.85	3.68	9.90	66.15	95.00	97.59	98.12	100.00	
OIB060 -16.25 NAVD	0.50	1.00	0.90	1.71	4	6	0.00	0.00	0.00	0.00	0.16	0.27	0.45	1.23	2.95	5.32	8.59	19.09	50.77	76.93	89.56	92.26	95.20	97.76	98.18	98.29	99.95	
OIB060 -20.0 NAVD	0.21	2.28	0.93	2.53	4	6	0.00	0.00	0.00	0.00	0.03	0.13	0.21	0.40	0.91	1.49	1.99	3.11	7.52	17.69	34.29	50.03	74.63	93.08	96.45	97.47	99.99	
OIB060 COMPOSITE	0.26	1.92	0.91	1.12	5	7	0.00	0.00	0.09	0.14	0.27	0.33	0.48	0.73	1.13	1.76	2.80	5.50	13.37	26.04	48.00	72.31	91.81	98.07	98.72	98.88	99.96	

**ELEVATION CUMULATIVE PERCENTS AND COMPUTED DISTRIBUTION
OCEAN ISLE BEACH NATIVE BEACH SAMPLES (1 of 2)**

SAMPLE I.D. (NAVD, FT)	MEAN (mm)	PHI MEAN	PHI SORTING	% SILT	WET MUNSELL VALUE	DRY MUNSELL VALUE	CUMULATIVE PERCENT RETAINED (SIEVES EXPRESSED IN PHI)																				FINES PAN
							GRAVEL					GRANULAR					SAND										
							-4.25	-4.00	-3.50	-3.00	-2.50	-2.25	-2.00	-1.5	-1.0	-0.5	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	3.75	4.0	
OIB000 Dune	0.23	2.12	0.39	0.10	7	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.16	3.46	37.26	85.63	98.53	99.82	99.89	99.90	99.99
OIB010 Dune	0.22	2.21	0.49	0.28	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.15	6.39	32.62	72.65	95.32	99.29	99.64	99.72	99.92
OIB025 Dune	0.27	1.87	0.44	2.17	6	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	1.69	16.89	62.83	91.31	97.18	97.81	97.83	97.83	99.92	
OIB060 Dune	0.20	2.30	0.43	0.23	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.48	3.50	20.01	69.24	96.78	99.59	99.76	99.77	100.00	
DUNE COMPOSITE	0.23	2.13	0.46	0.69	6	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.62	7.56	38.18	79.71	96.95	99.13	99.28	99.31	99.96	
OIB000 Dune Toe	0.30	1.75	0.50	0.14	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.65	6.18	28.57	69.80	94.54	99.09	99.80	99.85	99.86	99.98
OIB010 Dune Toe	0.31	1.69	0.43	0.35	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.12	0.22	4.25	30.86	79.70	96.90	99.18	99.63	99.65	99.65	99.91
OIB025 Dune Toe	0.31	1.68	0.45	0.18	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.32	4.80	34.06	78.23	96.70	99.42	99.80	99.82	99.82	100.00
OIB040 Dune Toe	0.14	2.84	0.67	0.95	-	-	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.12	0.19	0.21	0.29	0.48	0.95	1.41	8.13	31.80	55.46	76.78	98.09	99.05	100.00
OIB060 Dune Toe	0.31	1.69	0.68	0.26	6	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.15	0.73	4.77	18.02	33.55	64.29	91.20	98.62	99.62	99.71	99.74	100.00
TOE OF DUNE COMPOSITE	0.23	2.12	0.72	0.33	7	7	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.05	0.08	0.27	1.29	6.84	25.69	60.03	82.23	90.35	95.13	99.42	99.62	99.98
OIB000 Mid Berm	0.40	1.32	0.66	0.08	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.22	1.03	8.92	35.04	61.41	84.57	95.94	99.36	99.89	99.92	99.92	99.96
OIB010 Mid Berm	0.32	1.64	0.40	0.23	5	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.20	4.12	34.78	84.64	98.65	99.64	99.76	99.77	99.77	99.99
OIB025 Mid Berm	0.31	1.67	0.62	0.31	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.40	0.60	1.05	2.65	11.41	35.30	72.04	93.19	98.78	99.65	99.69	99.69	100.00
OIB040 Mid Berm	0.16	2.61	0.56	0.39	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.04	0.18	0.32	12.66	45.25	77.84	88.53	99.22	99.61	100.00
OIB060 Mid Berm	0.29	1.81	0.49	0.29	6	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.14	2.68	25.12	67.28	92.55	98.43	99.57	99.69	99.71	100.00
MID BERM COMPOSITE	0.26	1.96	0.79	0.23	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.10	0.18	0.44	2.39	10.69	31.39	64.24	85.12	94.81	97.48	99.66	99.74	99.99
OIB000 Berm Crest	0.35	1.50	0.55	0.14	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05	0.09	0.12	0.19	1.11	16.93	51.94	82.61	96.14	99.41	99.82	99.85	99.86	99.97
OIB010 Berm Crest	0.34	1.57	0.47	0.23	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.10	0.24	1.07	9.88	41.92	84.63	98.34	99.59	99.76	99.77	99.77	99.96
OIB025 Berm Crest	0.30	1.72	0.46	0.37	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.11	0.37	4.35	30.36	74.86	96.23	99.17	99.61	99.63	99.63	99.92
OIB040 Berm Crest	0.17	2.59	0.45	0.11	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	5.99	45.90	85.80	92.79	99.78	99.89	100.00
OIB060 Berm Crest	0.25	2.01	0.37	0.52	7	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.38	5.47	49.75	92.80	98.98	99.44	99.48	99.48	99.89
BERM CREST COMPOSITE	0.24	2.03	0.72	0.22	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.05	0.11	0.52	6.31	25.94	59.57	85.88	96.59	98.28	99.70	99.73	99.95
OIB000 MHW	0.24	2.04	0.50	1.30	5	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.18	0.72	3.15	10.55	42.38	83.93	97.79	98.67	98.70	98.70	99.73
OIB010 MHW	0.28	1.85	0.45	0.45	6	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.05	0.31	2.61	19.18	64.71	93.31	99.24	99.53	99.55	99.55	99.97
OIB025 MHW	0.25	2.02	0.45	1.19	5	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	1.07	11.04	46.50	86.83	97.74	98.76	98.81	98.81	99.88
OIB040 MHW	0.21	2.27	0.62	0.37	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	2.36	4.71	39.64	64.39	89.14	94.20	99.25	99.63	100.00
OIB060 MHW	0.31	1.70	0.74	1.18	5	6	0.00	0.00	0.00	0.00	0.09	0.09	0.28	0.69	0.99	1.56	2.47	4.45	12.43	32.82	63.91	88.51	97.91	98.77	98.81	98.82	99.89
MHW COMPOSITE	0.23	2.15	0.56	0.7	5	7	0.00	0.00	0.00	0.00	0.02	0.02	0.06	0.14	0.20	0.32	0.54	1.11	4.32	15.66	51.43	83.39	96.36	97.99	99.02	99.10	99.89
OIB000 MTL	0.24	2.04	0.62	1.00	4	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.10	0.37	4.41	20.99	45.17	73.28	96.01	98.89	98.99	99.00	99.99
OIB010 MTL	0.28	1.83	0.56	0.90	4	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.14	0.63	6.77	27.02	60.25	88.27	98.49	99.09	99.10	99.10	100.00
OIB025 MTL	0.28	1.84	0.67	0.99	5	7	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.12	0.14	0.29	1.21	12.11	30.87	54.41	82.97	97.93	98.98	99.01	99.01	100.00
OIB040 MTL	0.23	2.11	0.79	0.57	-	-	0.00	0.00	0.00	0.00	0.00	0.17	0.17	0.17	0.17	0.18	0.23	0.50	9.04	17.58	48.55	67.97	87.39	93.13	98.86	99.43	100.00
OIB060 MTL	0.24	2.06	0.63	1.01	5	7	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.16	0.23	0.45	0.94	1.92	5.28	14.97	38.96	76.04	97.03	98.92	98.98	98.99	100.00
MTL COMPOSITE	0.26	1.95	0.67	0.78	5	7	0.00	0.00	0.00	0.00	0.00	0.05	0.07	0.09	0.11	0.17	0.34	0.93	7.52	22.29	49.47	77.71	95.37	97.80	98.99	99.11	100.00
OIB000 MLW	0.40	1.31	0.86	0.94	6	7	0.00	0.00	0.00	0.34	0.34	0.34	0.43	0.68	0.99	1.85	4.30	12.64	37.59	58.25	76.88	91.40	98.37	99.04	99.06	99.06	100.00
OIB010 MLW	0.45	1.15	0.71	1.12	5	7	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.10	0.16	0.51	2.12	12.62	50.82	70.76	84.28	94.76	98.64	98.87	98.88	98.88	99.94
OIB025 MLW	0.69	0.54	1.39	0.97	5	7	0.00	0.00	2.55	4.85	5.58	6.13	7.11	8.66	10.71	15.36	23.88	38.52	60.28	76.59	88.36	95.98	98.85	99.02	99.03	99.03	99.89
OIB040 MLW	0.21	2.28	0.88	0.57	-	-	0.00	0.00	0.00	0.00	0.88	1.08	1.08	1.12	1.15	1.18	1.26										

**ELEVATION CUMULATIVE PERCENTS AND COMPUTED DISTRIBUTION
OCEAN ISLE BEACH NATIVE BEACH SAMPLES (2 of 2)**

SAMPLE I.D. (NAVD, FT)	MEAN (mm)	PHI MEAN	PHI SORTING	% SILT	WET MUNSELL VALUE	DRY MUNSELL VALUE	CUMULATIVE PERCENT RETAINED (SIEVES EXPRESSED IN PHI)																									FINES PAN
							GRAVEL					GRANULAR					SAND															
							-4.25	-4.00	-3.50	-3.00	-2.50	-2.25	-2.00	-1.5	-1.0	-0.5	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	3.75	4.0						
OIB000 Trough	0.26	1.92	1.07	0.93	6	7	0.00	0.00	0.00	0.00	0.77	0.93	1.31	2.06	2.74	3.92	5.87	8.38	14.36	25.02	41.41	64.9	92.52	98.83	99.04	99.07	100.00					
OIB010 Trough	0.19	2.37	0.58	1.03	4	7	0.00	0.00	0.00	0.00	0.01	0.01	0.2	0.25	0.27	0.44	0.67	1.13	2.51	6.1	16.14	53.02	92.98	98.78	98.94	98.97	100.00					
OIB025 Trough	0.23	2.15	0.91	1.57	4	7	0.00	0.00	0.00	0.47	0.85	1.26	1.48	1.92	2.28	2.73	3.4	4.18	6.26	10.66	23.15	64.48	94.84	98.27	98.4	98.43	99.92					
OIB040 Trough	0.31	1.69	1.45	0.49	-	-	0.00	0.00	5.43	5.43	5.43	5.43	5.43	5.47	5.51	5.61	5.75	5.96	11.98	17.99	60.94	77.66	94.38	96.70	99.02	99.51	99.99					
OIB060 Trough	0.22	2.17	0.56	1.05	4	7	0.00	0.00	0.00	0.00	0.12	0.17	0.17	0.21	0.26	0.34	0.53	0.9	2.58	9.03	29.4	73.19	96.96	98.89	98.94	98.95	100					
TROUGH COMPOSITE	0.25	2.02	1.03	0.88	5	7	0.00	0.00	1.09	1.18	1.44	1.56	1.72	1.98	2.21	2.61	3.24	4.11	7.54	13.76	34.21	66.65	94.34	98.29	98.87	98.99	99.98					
OIB000 Bar Crest	0.22	2.17	0.66	1.08	5	6	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.18	0.33	0.55	0.86	1.87	5.20	13.04	31.29	65.98	95.34	98.72	98.90	98.92	99.98					
OIB010 Bar Crest	0.22	2.18	0.54	1.17	5	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	0.22	0.51	2.34	9.72	32.33	69.67	96.06	98.76	98.83	98.83	99.85					
OIB025 Bar Crest	0.38	1.39	0.91	1.13	5	6	0.00	0.00	0.00	0.00	0.08	0.35	1.43	2.45	3.73	5.97	11.06	28.45	53.16	73.41	89.69	98.10	98.86	98.87	98.87	99.92						
OIB040 Bar Crest	0.22	2.16	0.84	0.51	-	-	0.00	0.00	0.00	0.00	0.45	0.45	0.60	0.75	0.95	1.30	2.07	7.74	13.40	43.69	65.41	87.12	93.05	98.97	99.49	100.00						
OIB060 Bar Crest	0.35	1.5	0.82	1.28	5	6	0.00	0.00	0.00	0.00	0.62	0.62	0.66	0.98	1.35	1.82	3.03	6.5	22.04	48.53	74.04	89.32	97.59	98.69	98.71	98.72	99.84					
BAR CREST COMPOSITE	0.27	1.88	0.84	1.03	5	6	0.00	0.00	0.00	0.00	0.12	0.23	0.31	0.64	0.98	1.43	2.28	4.40	13.15	27.57	50.95	76.01	94.84	97.62	98.86	98.97	99.92					
OIB000 -8.75 NAVD	0.18	2.46	0.69	1.51	5	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.14	0.35	0.75	1.71	4.41	9.39	18.32	39.11	82.80	97.25	98.24	98.49	100.00					
OIB010 -8.75 NAVD	0.21	2.28	0.77	1.52	5	6	0.00	0.00	0.00	0.00	0.04	0.08	0.14	0.25	0.41	0.72	1.31	2.81	7.00	13.80	24.81	52.00	87.82	97.51	98.29	98.48	100.00					
OIB025 -8.75 NAVD	0.18	2.48	0.96	1.74	4	6	0.00	0.00	0.43	0.43	0.57	0.71	0.77	1.12	1.48	2.11	2.95	4.34	7.05	10.50	15.42	28.75	76.75	96.32	97.87	98.26	99.99					
OIB040 -9.0 NAVD	0.17	2.59	0.71	0.40	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.06	0.13	0.30	2.54	4.78	19.52	45.14	70.76	84.98	99.20	99.60	99.99					
OIB060 -8.75 NAVD	0.16	2.66	0.64	1.69	4	6	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.31	0.44	0.76	1.10	1.70	2.97	4.71	7.96	21.62	76.57	96.51	98.00	98.31	100.00					
-8.75 NAVD COMPOSITE	0.2	2.34	0.86	1.13	5	6	0.00	0.00	0.09	0.09	0.12	0.16	0.20	0.35	0.50	0.80	1.25	2.17	4.79	8.64	17.21	37.32	78.94	94.51	98.32	98.63	100.00					
OIB000 -12.5 NAVD	0.14	2.79	0.46	2.20	5	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.12	0.24	0.44	0.99	1.91	3.46	13.85	71.60	95.26	97.38	97.80	100.00					
OIB010 -12.5 NAVD	0.13	2.96	0.45	2.66	4	6	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.09	0.12	0.17	0.27	0.56	1.19	2.67	7.69	49.42	91.24	96.20	97.34	100.00					
OIB025 -12.5 NAVD	0.13	2.94	0.48	2.18	4	6	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.12	0.19	0.25	0.30	0.40	0.74	1.40	2.67	7.88	51.47	91.06	96.68	97.82	100.00					
OIB040 -13.0 NAVD	0.13	2.95	0.69	0.73	-	-	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.14	0.20	0.29	0.41	0.63	1.58	2.53	6.36	24.90	43.44	70.99	98.54	99.27	100.00					
OIB060 -12.5 NAVD	0.15	2.76	0.88	1.88	4	6	0.00	0.00	1.14	1.14	1.14	1.14	1.25	1.39	1.60	1.78	1.93	2.14	2.43	2.85	3.68	9.90	66.15	95.00	97.59	98.12	100.00					
-12.5 NAVD COMPOSITE	0.14	2.86	0.6	1.75	4	6	0.00	0.00	0.23	0.23	0.23	0.24	0.27	0.35	0.42	0.51	0.61	0.78	1.26	1.98	3.77	12.84	56.42	88.71	97.28	98.07	100.00					
OIB000 -16.25 NAVD	0.14	2.86	0.43	3.09	4	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.05	0.09	0.21	0.46	0.91	2.54	12.70	60.66	93.64	96.66	96.91	100.00					
OIB010 -16.25 NAVD	0.15	2.77	0.74	4.03	4	6	0.00	0.00	0.00	0.00	0.04	0.20	0.36	0.57	0.73	0.96	1.17	1.57	2.55	4.53	9.26	18.96	54.79	90.87	95.85	95.97	100.00					
OIB025 -16.25 NAVD	0.14	2.81	0.74	4.93	4	6	0.00	0.00	0.00	0.11	0.11	0.13	0.19	0.38	0.56	0.79	1.00	1.44	3.22	5.58	8.78	16.52	50.77	88.33	94.24	95.07	99.79					
OIB040 -17.0 NAVD	0.11	3.15	0.53	1.85	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.05	0.08	0.14	0.35	0.55	1.60	15.11	28.62	62.46	96.30	98.15	100.00					
OIB060 -16.25 NAVD	0.5	1	0.9	1.71	4	6	0.00	0.00	0.00	0.00	0.16	0.27	0.45	1.23	2.95	5.32	8.59	19.09	50.77	76.93	89.56	92.26	95.2	97.76	98.18	98.29	99.95					
-16.25 NAVD COMPOSITE	0.13	2.93	0.65	2.97	4	6	0.00	0.00	0.00	0.02	0.06	0.12	0.20	0.44	0.86	1.43	2.19	4.49	11.47	17.70	22.35	31.11	58.01	86.61	96.25	96.88	99.95					
OIB000 -20 NAVD	0.17	2.56	1.14	3.08	4	6	0.00	0.00	1.85	1.85	2.16	2.19	2.35	2.66	2.92	3.12	3.27	3.50	4.03	5.26	8.91	26.42	68.20	92.91	96.13	96.92	100.00					
OIB010 -20.0 NAVD	0.14	2.83	0.77	7.33	4	6	0.00	0.00	0.25	0.33	0.43	0.43	0.49	0.73	0.90	1.07	1.23	1.52	2.11	3.05	5.23	14.62	52.45	84.99	90.83	92.67	100.00					
OIB025 -20.0 NAVD	0.17	2.56	1.15	7.06	4	6	0.00	0.00	0.47	0.47	0.90	1.02	1.26	1.70	2.38	3.12	3.70	4.64	8.24	12.12	16.30	27.28	54.66	83.54	90.07	92.94	100.00					
OIB040 -19.0 NAVD	0.11	3.20	0.59	3.07	-	-	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.08	0.10	0.19	0.27	0.39	0.92	1.44	3.60	12.48	21.36	57.61	93.86	96.93	100.00					
OIB060 -20.0 NAVD	0.21	2.28	0.93	2.53	4	6	0.00	0.00	0.00	0.00	0.03	0.13	0.21	0.40	0.91	1.49	1.99	3.11	7.52	17.69	34.29	50.03	74.63	93.08	96.45	97.47	99.99					
-20.0 NAVD COMPOSITE	0.14	2.83	0.92	4.3	4	6	0.00	0.00	0.51	0.53	0.70	0.76	0.87	1.11	1.44	1.80	2.09	2.63	4.56	7.91	13.67	26.17	54.26	82.43	93.47	95.39	100.00					

(-) indicates value not tested.

**PERCENTAGE OF MATERIAL BY SEDIMENT GRAIN SIZE CATEGORY
OCEAN ISLE BEACH 2013 NATIVE BEACH SAMPLES (1 of 2)**

SAMPLE I. D. (NAVD, FT)	FINE % (<0.0625mm)	SAND % (0.0625mm-2.00mm)	GRANULAR % (2mm-4.76mm)	GRAVEL % (4.76mm-76mm)
OIB000 Dune	0.10	99.90	0.00	0.00
OIB000 Dune Toe	0.14	99.86	0.00	0.00
OIB000 Mid Berm	0.08	99.86	0.06	0.00
OIB000 Berm Crest	0.14	99.77	0.09	0.00
OIB000 MHW	1.30	98.70	0.00	0.00
OIB000 MTL	1.00	98.97	0.03	0.00
OIB000 MLW	0.94	98.07	0.65	0.34
OIB000 Trough	0.93	96.33	1.81	0.93
OIB000 Bar Crest	1.08	98.59	0.33	0.00
OIB000 -8.75 NAVD	1.51	98.35	0.14	0.00
OIB000 -12.5 NAVD	2.20	97.76	0.04	0.00
OIB000 -16.25 NAVD	3.09	96.88	0.03	0.00
OIB000 -20 NAVD	3.08	94.00	0.73	2.19
OIB000 COMPOSITE	1.23	98.23	0.30	0.27
OIB010 Dune	0.28	99.72	0.00	0.00
OIB010 Dune Toe	0.35	99.65	0.00	0.00
OIB010 Mid Berm	0.23	99.76	0.01	0.00
OIB010 Berm Crest	0.23	99.73	0.04	0.00
OIB010 MHW	0.45	99.54	0.01	0.00
OIB010 MTL	0.90	99.10	0.00	0.00
OIB010 MLW	1.12	98.72	0.09	0.07
OIB010 Trough	1.03	98.70	0.26	0.01
OIB010 Bar Crest	1.17	98.80	0.03	0.00
OIB010 -8.75 NAVD	1.52	98.07	0.33	0.08
OIB010 -12.5 NAVD	2.66	97.25	0.09	0.00
OIB010 -16.25 NAVD	4.03	95.24	0.53	0.20
OIB010 -20.0 NAVD	7.33	91.77	0.47	0.43
OIB010 COMPOSITE	1.64	98.16	0.14	0.06
OIB025 Dune	2.17	97.83	0.00	0.00
OIB025 Dune Toe	0.18	99.82	0.00	0.00
OIB025 Mid Berm	0.31	99.29	0.40	0.00
OIB025 Berm Crest	0.37	99.61	0.02	0.00
OIB025 MHW	1.19	98.81	0.00	0.00
OIB025 MTL	0.99	98.89	0.12	0.00
OIB025 MLW	0.97	88.32	4.58	6.13
OIB025 Trough	1.57	96.15	1.02	1.26
OIB025 Bar Crest	1.13	96.42	2.37	0.08
OIB025 -8.75 NAVD	1.74	96.78	0.77	0.71
OIB025 -12.5 NAVD	2.18	97.63	0.19	0.00
OIB025 -16.25 NAVD	4.93	94.51	0.43	0.13
OIB025 -20.0 NAVD	7.06	90.56	1.36	1.02
OIB025 COMPOSITE	1.93	96.51	0.87	0.72

**PERCENTAGE OF MATERIAL BY SEDIMENT GRAIN SIZE CATEGORY
OCEAN ISLE BEACH 2013 NATIVE BEACH SAMPLES (2 of 2)**

SAMPLE I. D. (NAVD, FT)	FINE % (<0.0625mm)	SAND % (0.0625mm-2.00mm)	GRANULAR % (2mm-4.76mm)	GRAVEL % (4.76mm-76mm)
OIB040 Dune Toe*	0.95	98.86	0.15	0.04
OIB040 Mid Berm*	0.39	99.60	0.01	0.00
OIB040 Berm Crest*	0.11	99.89	0.00	0.00
OIB040 MHW*	0.37	99.63	0.00	0.00
OIB040 MTL*	0.57	99.26	0.00	0.17
OIB040 MLW*	0.57	98.28	0.07	1.08
OIB040 Trough*	0.49	94.00	0.08	5.43
OIB040 Bar Crest*	0.51	98.74	0.30	0.45
OIB040 -9.0 NAVD*	0.40	99.59	0.01	0.00
OIB040 -13.0 NAVD*	0.73	99.07	0.12	0.08
OIB040 -17.0 NAVD*	1.85	98.12	0.03	0.00
OIB040 -19.0 NAVD*	3.07	96.83	0.05	0.05
OIB040 COMPOSITE	0.94	98.49	0.07	0.61
OIB060 Dune	0.23	99.77	0.00	0.00
OIB060 Dune Toe	0.26	99.70	0.04	0.00
OIB060 Mid Berm	0.29	99.71	0.00	0.00
OIB060 Berm Crest	0.52	99.48	0.00	0.00
OIB060 MHW	1.18	97.83	0.90	0.09
OIB060 MTL	1.01	98.76	0.14	0.09
OIB060 MLW	0.93	93.21	4.08	1.78
OIB060 Trough	1.05	98.69	0.09	0.17
OIB060 Bar Crest	1.28	97.37	0.73	0.62
OIB060 -8.75 NAVD	1.69	97.87	0.43	0.01
OIB060 -12.5 NAVD	1.88	96.52	0.46	1.14
OIB060 -16.25 NAVD	1.71	95.34	2.68	0.27
OIB060 -20.0 NAVD	2.53	96.56	0.78	0.13
OIB060 COMPOSITE	1.12	97.75	0.79	0.33
TOTAL BEACH COMPOSITE	1.34	97.83	0.43	0.40