FRASER ENGINEERING AND TESTING, INC.

3504 INDUSTRIAL 33RD STREET FORT PIERCE, FLORIDA 34946

FT. PIERCE 561-461-7508 VERO BEACH 561-567-6167 STUART 561-283-7711 FAX 561-461-8880 800-233-9011

SUMMARY OF GRADATION TEST RESULTS
ASTM D-422

Client: Coastal Tech

Date: 8/17/99

Site: Phipps Beach, Town of Palm Beach

Test No.: 1335

Soil Description: Light brown fine sand with small shell fragments (all samples)

Date Received: 8/13/99

SAMPLE LOCATION	SAMPLE WEIGHT (GM)	PERCENT BY WEIGHT PASSING SIEVE								
		#4	#10	#20	#40	#60	#80	#100	#140	#200
DEP Monument No. 116 Top of Foreshore Slope 10	316.6	99.9	99.1	92.3	71.4	23.5	6.6	2.2	0.1	0.0
DEP Monument No. 116 Toe of Dune 5	310.8	99.8	99.1	90.1	55.4	9.8	1.6	0.6	0.1	0.0
DEP Monument 116 Elevation -5	315.2	85.4	74.3	62.0	53.0	31.7	19.0	11.1	0.7	0.0
DEP Monument 120 Top of Foreshore Slope 10	311.0	99.9	99.7	95.7	53.0	5.7	0.6	0.2	0.1	0.0
DEP Monument 120 Toe of Dune 5	319.4	99.7	99.3	94.4	49.7	2.5	0.3	0.1	0.0	0.0
DEP Monument 120 Elevation -5	307.3	99.7	97.1	85.6	56.5	21.7	8.5	4.0	1.2	0.0
DEP Monument 125 Top of Foreshore Dune 10	305.7	99.8	99.7	95.9	45.0	2.6	0.4	0.2	0.1	0.0
DEP Monument 125 Toe of Dune 5	303.9	99.2	98.7	93.2	40.0	1.6	0.1	0.1	0.1	0.0
DEP Monument 125 Elevation -5	304.8	98.2	96.3	90.0	72.5	27.9	12.0	6.1	0.3	0.0

Respectfully submitted,

FRASER ENGINEERING AND TESTING, INC.

Alexander H. Fraser, P.E. Fl. Reg. No. 16178

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