

DRILLING LOG		DIVISION: South Atlantic		INSTALLATION: Jacksonville District		SHEET 1 of 1	
1. PROJECT		ESTERO ISLAND BEACH RESTORATION		10. SIZE AND TYPE OF BIT 3 5/8"			
2. LOCATION		(Coordinates or Station) X= 662394 Y= 763976		11. DATUM FOR ELEVATION SHOWN <sup>(TBM or MSL)</sup> NGVD			
3. DRILLING AGENCY:		Alpine Ocean Seismic Survey Inc.		12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC VIBRACORE			
4. HOLE NO.		(As shown on drawing title and file number) EI-00-30		13. TOT NO. OF OVERBURDEN SAMPLES TAKEN Disturbed: 0.0 Undisturbed: 0.0			
5. NAME OF DRILLER		MAURIZIO ROSSI		14. TOTAL NO. OF CORE BOXES			
6. DIRECTION OF HOLE		VERTICAL		15. ELEVATION GROUND WATER			
7. THICKNESS OF BURDEN 0.0 FT				16. DATE HOLE		Started Completed 8/16/00 1224	
8. DEPTH DRILLED INTO ROCK N/A				17. ELEVATION TOP OF HOLE -5.8 ft			
9. TOTAL DEPTH OF HOLE 19.18 ft				18. TOTAL CORE RECOVERY FOR BORING 49%			
				19. SIGNATURE OF GEOLOGIST SYED KHALIL			

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-5.8	0					
	1					
	2					
	3		SAND, fine-grained, Light gray (5Y-7/1) (SP)		1	Sample #1, Depth = 3.0' Mean (mm): 0.13, Phi Sorting: 0.63 Silt: 3.0%
	4					
	5					
-11.8	6					
	7		SAND, fine-grained, trace silt, trace shell hash, Gray (5Y-6/1) (SP-SM)		2	Sample #2, Depth = 7.5' Mean (mm): 0.14, Phi Sorting: 0.91 Silt: 11.3%
	8					
-15	9					
	10					
	11					
	12					
	13					
	14		NO RECOVERY			
	15					
	16					
	17					
	18					
-25	19					
	20		End of Boring			
	21		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			LAT - LONG  26 26.131 N 81 58.859 W
	22					
	23					
	24					

## GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-30#1  
SAMPLE ELEV. (FT. NGVD): 3.0  
SAMPLE DEPTH (FT.): 3.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 99.63  
SAMPLE WEIGHT AFTER WASH (GRAMS): 96.93

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.00	0.00	100.00
5	-2.00	4.000	0.00	0.00	100.00
7	-1.50	2.800	0.07	0.07	99.93
10	-1.00	2.000	0.28	0.28	99.72
14	-0.50	1.400	0.80	0.80	99.20
18	0.00	1.000	1.48	1.49	98.51
25	0.50	0.710	2.24	2.25	97.75
35	1.00	0.500	2.93	2.94	97.06
45	1.50	0.355	3.38	3.39	96.61
60	2.00	0.250	3.78	3.79	96.21
80	2.50	0.180	4.94	4.96	95.04
120	3.00	0.125	47.94	48.12	51.88
170	3.50	0.090	93.01	93.36	6.64
200	3.75	0.075	96.64	97.00	3.00
230	4.00	0.063	98.23	98.59	1.41
PAN			99.61	99.98	0.02

PHI (5): 2.50      PHI (16): 2.63      PHI (25): 2.73  
PHI (50): 3.02      PHI (75): 3.30      PHI (84): 3.40  
PHI (95): 3.61

SIEVE LOSS (g): 0.02      SILT/CLAY: 3.00%  
SKEWNESS: 0.093      KURTOSIS: 0.807

## GRAPHIC METHOD

MEAN (PHI): 3.03      SORTING: 0.38  
MEAN (mm): 0.12      MEDIAN (mm): 0.12

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

## MOMENT METHOD

MEAN (PHI): 2.93      SORTING: 0.63  
MEAN (mm): 0.13

DATA FILE NAME: EI-00-30#1.TAB

## GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-30#2  
SAMPLE ELEV. (FT. NGVD): 7.5  
SAMPLE DEPTH (FT.): 7.5  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 99.55  
SAMPLE WEIGHT AFTER WASH (GRAMS): 89.06

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.00	0.00	100.00
5	-2.00	4.000	1.22	1.23	98.77
7	-1.50	2.800	1.73	1.74	98.26
10	-1.00	2.000	2.10	2.11	97.89
14	-0.50	1.400	2.46	2.47	97.53
18	0.00	1.000	2.73	2.74	97.26
25	0.50	0.710	3.01	3.02	96.98
35	1.00	0.500	3.31	3.32	96.68
45	1.50	0.355	3.65	3.67	96.33
60	2.00	0.250	4.27	4.29	95.71
80	2.50	0.180	5.98	6.01	93.99
120	3.00	0.125	51.43	51.66	48.34
170	3.50	0.090	85.95	86.34	13.66
200	3.75	0.075	88.31	88.71	11.29
230	4.00	0.063	94.01	94.44	5.56
PAN			99.51	99.96	0.04

PHI (5): 2.21      PHI (16): 2.61      PHI (25): 2.71  
PHI (50): 2.98      PHI (75): 3.34      PHI (84): 3.47  
PHI (95): 4.02

SIEVE LOSS (g): 0.04      SILT/CLAY: 11.29%  
SKEWNESS: 0.312      KURTOSIS: 1.185

## GRAPHIC METHOD

MEAN (PHI): 3.06      SORTING: 0.43  
MEAN (mm): 0.12      MEDIAN (mm): 0.13

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

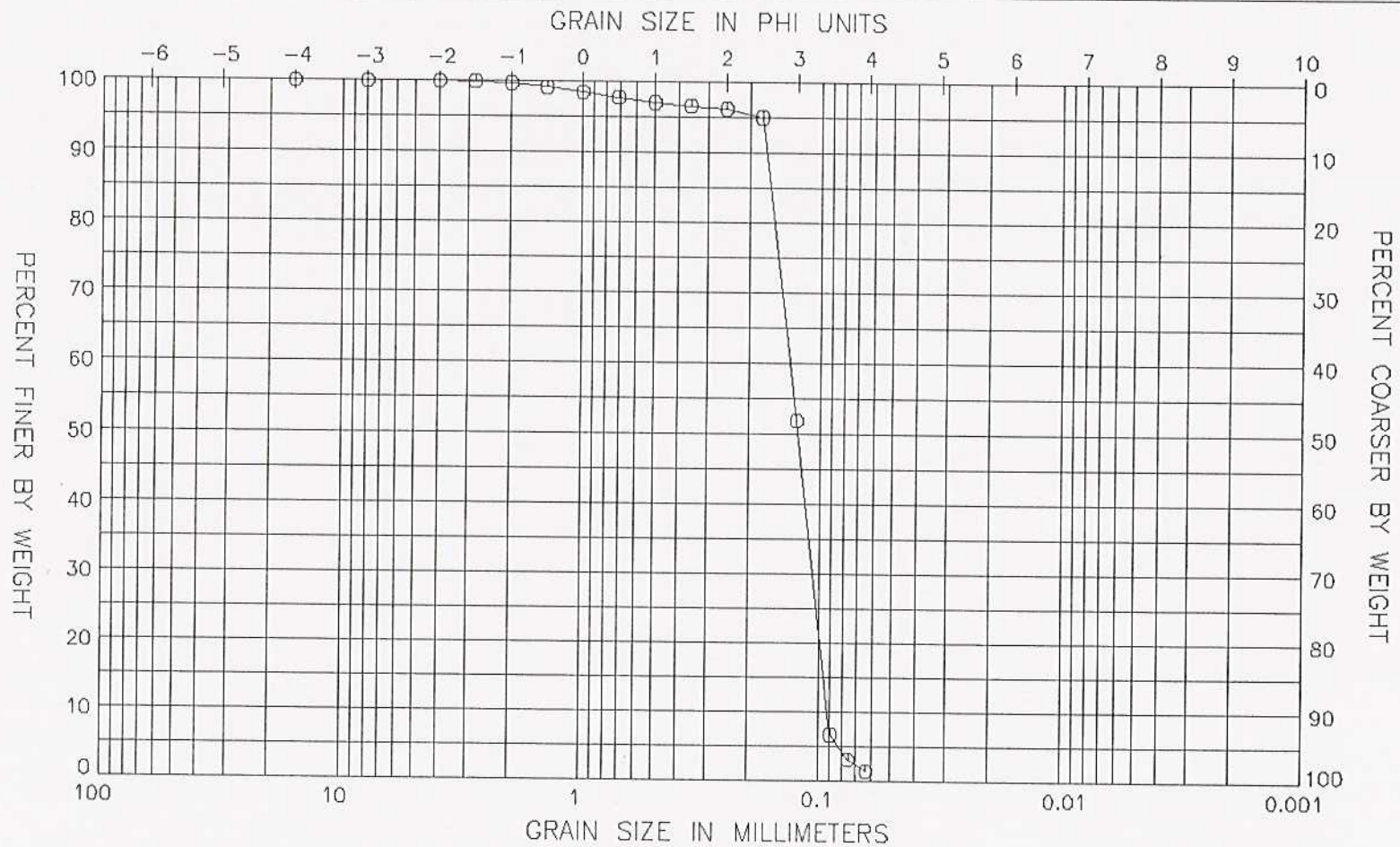
## MOMENT METHOD

MEAN (PHI): 2.86      SORTING: 0.91  
MEAN (mm): 0.14

DATA FILE NAME: EI-00-30#2.TAB



GRAIN SIZE DISTRIBUTION CURVE  
ESTERO VC 2000



WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	VERY	SAND			VERY	SILT	CLAY
		COARSE	COARSE	MED.	FINE	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
EI-00-30#1 $\phi$	3.0	3.0	SP	0.13	0.12	0.63

# GRAIN SIZE DISTRIBUTION CURVE ESTERO VC 2000

