

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= 688068 Y= 749844		11. DATUM FOR ELEVATION SHOWN		(TBM or MSL) 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-00-13		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 8/6/00 1431	
8. DEPTH DRILLED INTO ROCK		N/A		17. ELEVATION TOP OF HOLE		-8.9 ft	
9. TOTAL DEPTH OF HOLE		19.02 ft		18. TOTAL CORE RECOVERY FOR BORING		91%	
				19. SIGNATURE OF GEOLOGIST		SYED KHALIL	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-8.9	0					
	1		SAND, fine-grained, some shell hash/shell fragments, Light gray (5Y-7/1) to White (5Y-8/1) (SP)		1	Sample #1, Depth = 1.2' Mean (mm): 0.18, Phi Sorting: 0.76 Silt: 1.7%
-11.8	3		SAND, fine-grained, trace shell hash/shell fragments, trace silt, Gray (5Y-5/1) (SP-SM)		2	Sample #2, Depth = 4.0' Mean (mm): 0.15, Phi Sorting: 1.42 Silt: 11.4%
-14.8	6		SILT, some clay, some fine sand, little shell hash/shell fragments (ML)			
-16.3	7		SILTY CLAY, some shell hash/shell fragments/whole shell, Gray (5Y-5/1) (ML-CL)			
-17.8	9					
	10		CARBONATE CLAST, limestone cobbles/pebble/gravels, calcareous/carbonate fines, Light gray (5Y-7/1) (GP)			
	11					
	12					
	13					
	14					
	15					
	16					
-26.3	17					
	18		NO RECOVERY			
-27.9	19		End of Boring			
	20					
	21		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			LAT - LONG 26 23.802 N 81 54.151 W
	22					
	23					
	24					

GRADATION ANALYSIS REPORT
ESTERO VC 2000
TESTED BY: ID ON: 8/00

SAMPLE NO.: EI-00-13#1
SAMPLE ELEV. (FT. NGVD): 1.2
SAMPLE DEPTH (FT.): 1.2
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 99.88
SAMPLE WEIGHT AFTER WASH (GRAMS): 98.22

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	0.29	0.29	99.71
5	-2.00	4.000	0.54	0.54	99.46
7	-1.50	2.800	0.86	0.86	99.14
10	-1.00	2.000	1.42	1.42	98.58
14	-0.50	1.400	1.94	1.94	98.06
18	0.00	1.000	2.36	2.36	97.64
25	0.50	0.710	2.89	2.89	97.11
35	1.00	0.500	3.42	3.42	96.58
45	1.50	0.355	4.23	4.24	95.76
60	2.00	0.250	7.54	7.55	92.45
80	2.50	0.180	29.67	29.71	70.29
120	3.00	0.125	92.28	92.39	7.61
170	3.50	0.090	97.99	98.11	1.89
200	3.75	0.075	98.16	98.28	1.72
230	4.00	0.063	99.02	99.14	0.86
PAN			99.87	99.99	0.01

PHI (5): 1.62 PHI (16): 2.19 PHI (25): 2.39
PHI (50): 2.66 PHI (75): 2.86 PHI (84): 2.93
PHI (95): 3.23

SIEVE LOSS (g): 0.01 SILT/CLAY: 1.72%
SKEWNESS: -0.647 KURTOSIS: 1.414

GRAPHIC METHOD

MEAN (PHI): 2.53 SORTING: 0.37
MEAN (mm): 0.17 MEDIAN (mm): 0.16
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.51 SORTING: 0.76
MEAN (mm): 0.18

DATA FILE NAME: EI-00-13#1.TAB

GRADATION ANALYSIS REPORT
ESTERO VC 2000
TESTED BY: ID ON: 8/00

SAMPLE NO.: EI-00-13#2
SAMPLE ELEV. (FT. NGVD): 4.0
SAMPLE DEPTH (FT.): 4.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 95.83
SAMPLE WEIGHT AFTER WASH (GRAMS): 86.52

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	2.33	2.43	97.57
7	-1.50	2.800	3.54	3.69	96.31
10	-1.00	2.000	5.06	5.28	94.72
14	-0.50	1.400	6.87	7.17	92.83
18	0.00	1.000	8.05	8.40	91.60
25	0.50	0.710	8.96	9.35	90.65
35	1.00	0.500	9.68	10.10	89.90
45	1.50	0.355	10.24	10.69	89.31
60	2.00	0.250	10.61	11.07	88.93
80	2.50	0.180	12.68	13.23	86.77
120	3.00	0.125	29.77	31.07	68.93
170	3.50	0.090	76.28	79.60	20.40
200	3.75	0.075	84.93	88.63	11.37
230	4.00	0.063	90.93	94.89	5.11
PAN			95.77	99.94	0.06

PHI (5): -1.09 PHI (16): 2.58 PHI (25): 2.83
PHI (50): 3.20 PHI (75): 3.45 PHI (84): 3.62
PHI (95): 4.00

SIEVE LOSS (g): 0.06 SILT/CLAY: 11.37%
SKEWNESS: -3.327 KURTOSIS: 3.352

GRAPHIC METHOD

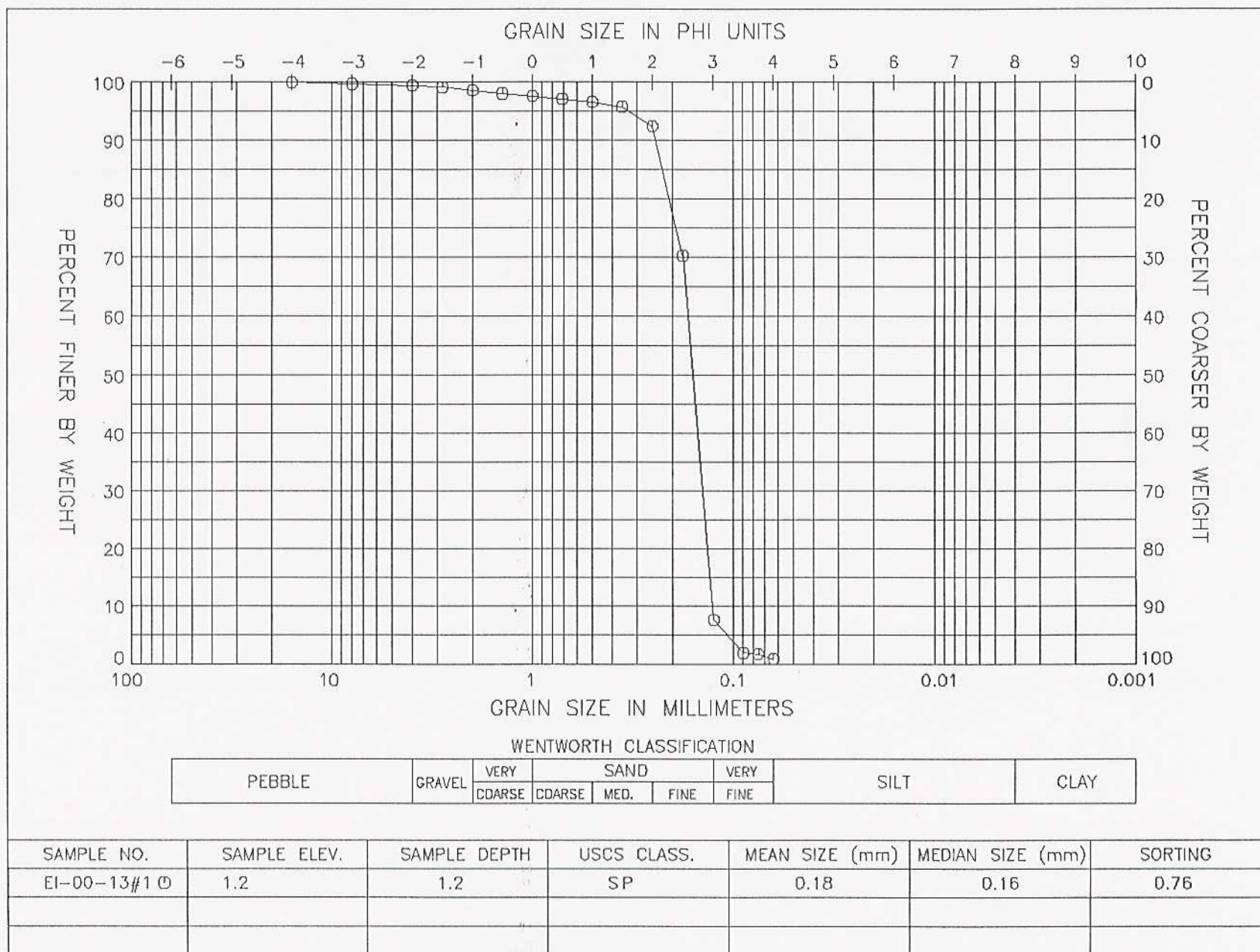
MEAN (PHI): 2.46 SORTING: 0.52
MEAN (mm): 0.18 MEDIAN (mm): 0.11
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.73 SORTING: 1.42
MEAN (mm): 0.15

DATA FILE NAME: EI-00-13#2.TAB

GRAIN SIZE DISTRIBUTION CURVE ESTERO VC 2000



GRAIN SIZE DISTRIBUTION CURVE
ESTERO VC 2000

