

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= 664426 Y= 763695		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-00-15		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 1608					
8. DEPTH DRILLED INTO ROCK N/A		17. ELEVATION TOP OF HOLE -8.6 ft					
9. TOTAL DEPTH OF HOLE 14.2 ft		18. TOTAL CORE RECOVERY FOR BORING 75%					
		19. SIGNATURE OF GEOLOGIST SYED KHALIL					

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-8.6	0					
	1				1	Sample #1, Depth = 1.0' Mean (mm): 0.11, Phi Sorting: 0.35 Silt: 3.0%
	2		SAND, fine-grained, trace shell hash/shell fragments (compact), trace silt, Gray (5Y-6/1) to Light gray (5Y-7/1) (SP)			
	3					
	4				2	Sample #2, Depth = 4.0' Mean (mm): 0.11, Phi Sorting: 0.35 Silt: 10.8%
-13.6	5		SAND, trace silt, some shell hash/shell fragments (compact), Gray (5Y-5/1) (SP-SM)			
-14.8	6				3	Sample #3, Depth = 6.0' Mean (mm): 0.12, Phi Sorting: 0.61 Silt: 7.4%
	7		SILTY CLAY, some shell hash/shell fragments (compact) & whole shell 1", Gray (5Y-5/1) (ML-CL)			
	8					
-18.3	9					
-19.3	10		CARBONATE CLAST, limestone cobbles/pebble/gravels, calcareous/carbonate fines, Dark gray (5Y-7/1) (GP)			
	11					
	12		NO RECOVERY			
	13					
-22.8	14		End of Boring			
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			LAT - LONG 26 26.088 N 81 58.492 W
	23					
	24					

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

SAMPLE NO.: EI-00-15#1
SAMPLE ELEV. (FT. NGVD): 1.0
SAMPLE DEPTH (FT.): 1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 98.82
SAMPLE WEIGHT AFTER WASH (GRAMS): 96.37

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	0.02	0.02	99.98
10	-1.00	2.000	0.07	0.07	99.93
14	-0.50	1.400	0.20	0.20	99.80
18	0.00	1.000	0.27	0.27	99.73
25	0.50	0.710	0.33	0.33	99.67
35	1.00	0.500	0.39	0.39	99.61
45	1.50	0.355	0.47	0.48	99.52
60	2.00	0.250	0.58	0.59	99.41
80	2.50	0.180	0.82	0.83	99.17
120	3.00	0.125	26.68	27.00	73.00
170	3.50	0.090	92.07	93.17	6.83
200	3.75	0.075	95.79	96.93	3.07
230	4.00	0.063	97.53	98.69	1.31
PAN			98.81	99.99	0.01

PHI (5): 2.58 PHI (16): 2.79 PHI (25): 2.96
PHI (50): 3.17 PHI (75): 3.36 PHI (84): 3.43
PHI (95): 3.62

SIEVE LOSS (g): 0.01 SILT/CLAY: 3.07%
SKEWNESS: -0.228 KURTOSIS: 1.065

GRAPHIC METHOD

MEAN (PHI): 3.12 SORTING: 0.32
MEAN (mm): 0.12 MEDIAN (mm): 0.11
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 3.12 SORTING: 0.35
MEAN (mm): 0.11

DATA FILE NAME: EI-00-15#1.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 8/00

SAMPLE NO.: EI-00-15#2

SAMPLE ELEV. (FT. NGVD): 4.0

SAMPLE DEPTH (FT.): 4.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 95.41

SAMPLE WEIGHT AFTER WASH (GRAMS): 86.92

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	0.00	0.00	100.00
10	-1.00	2.000	0.05	0.05	99.95
14	-0.50	1.400	0.11	0.12	99.88
18	0.00	1.000	0.17	0.18	99.82
25	0.50	0.710	0.24	0.25	99.75
35	1.00	0.500	0.29	0.30	99.70
45	1.50	0.355	0.42	0.44	99.56
60	2.00	0.250	0.52	0.55	99.45
80	2.50	0.180	0.92	0.96	99.04
120	3.00	0.125	13.03	13.66	86.34
170	3.50	0.090	76.64	80.33	19.67
200	3.75	0.075	85.11	89.20	10.80
230	4.00	0.063	90.89	95.26	4.74
PAN			95.40	99.99	0.01

PHI (5): 2.66

PHI (16): 3.02

PHI (25): 3.09

PHI (50): 3.27

PHI (75): 3.46

PHI (84): 3.60

PHI (95): 3.99

SIEVE LOSS (g): 0.01

SILT/CLAY: 10.80%

SKEWNESS: 0.176

KURTOSIS: 1.454

GRAPHIC METHOD

MEAN (PHI): 3.31

SORTING: 0.29

MEAN (mm): 0.10

MEDIAN (mm): 0.10

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 3.24

SORTING: 0.35

MEAN (mm): 0.11

DATA FILE NAME: EI-00-15#2.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 8/00

SAMPLE NO.: EI-00-15#3

SAMPLE ELEV. (FT. NGVD): 6.0

SAMPLE DEPTH (FT.): 6.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 98.04

SAMPLE WEIGHT AFTER WASH (GRAMS): 92.10

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	0.05	0.05	99.95
7	-1.50	2.800	0.16	0.16	99.84
10	-1.00	2.000	0.42	0.43	99.57
14	-0.50	1.400	0.74	0.75	99.25
18	0.00	1.000	1.07	1.09	98.91
25	0.50	0.710	1.61	1.64	98.36
35	1.00	0.500	2.08	2.12	97.88
45	1.50	0.355	2.51	2.56	97.44
60	2.00	0.250	3.10	3.16	96.84
80	2.50	0.180	4.12	4.20	95.80
120	3.00	0.125	25.09	25.59	74.41
170	3.50	0.090	84.83	86.53	13.47
200	3.75	0.075	90.83	92.65	7.35
230	4.00	0.063	94.95	96.85	3.15
PAN			98.03	99.99	0.01

PHI (5): 2.52	PHI (16): 2.78	PHI (25): 2.99
PHI (50): 3.20	PHI (75): 3.41	PHI (84): 3.48
PHI (95): 3.89		

SIEVE LOSS (g): 0.01	SILT/CLAY: 7.35%
SKEWNESS: 0.012	KURTOSIS: 1.341

GRAPHIC METHOD

MEAN (PHI): 3.17	SORTING: 0.35
MEAN (mm): 0.11	MEDIAN (mm): 0.11

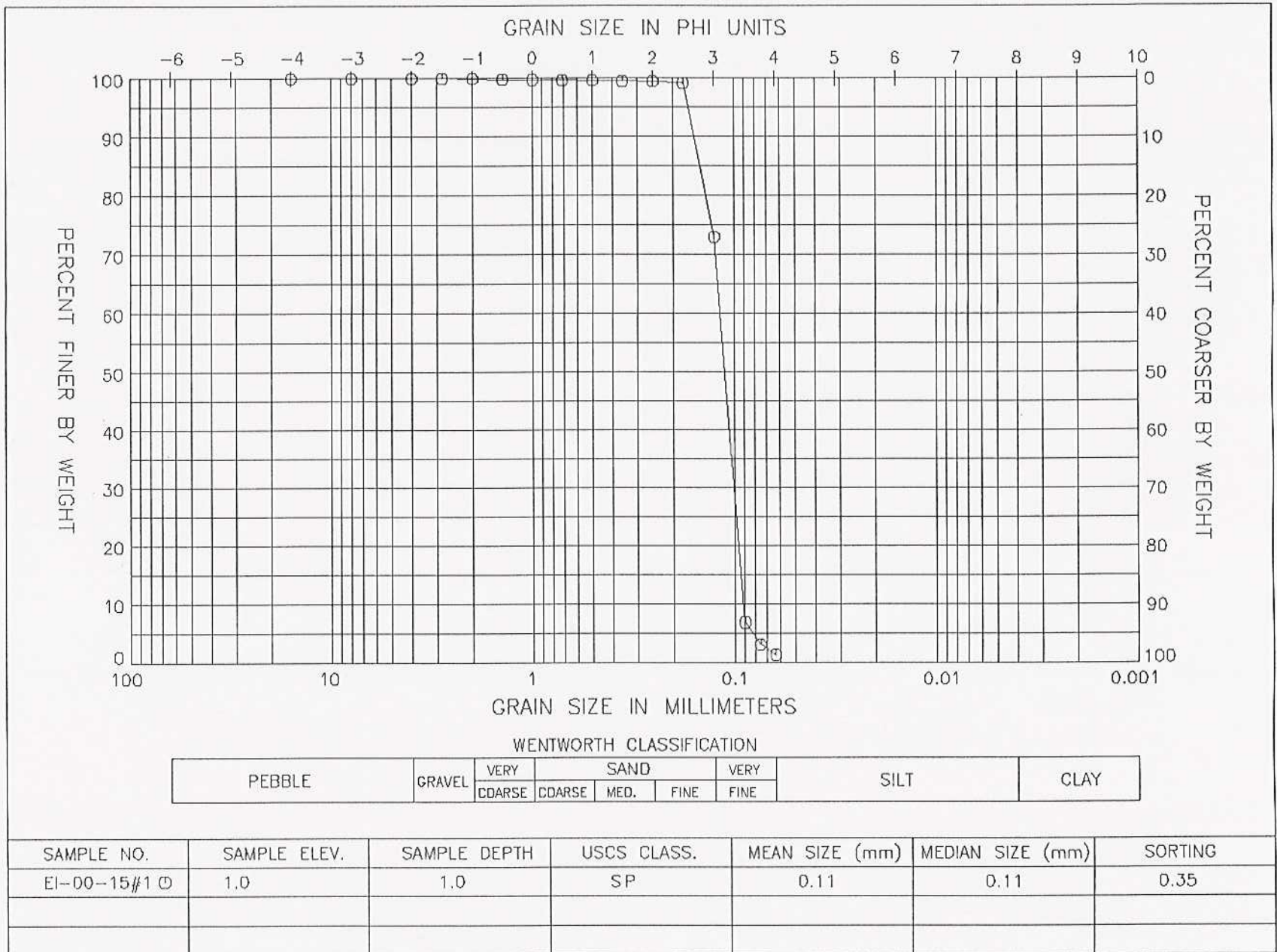
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

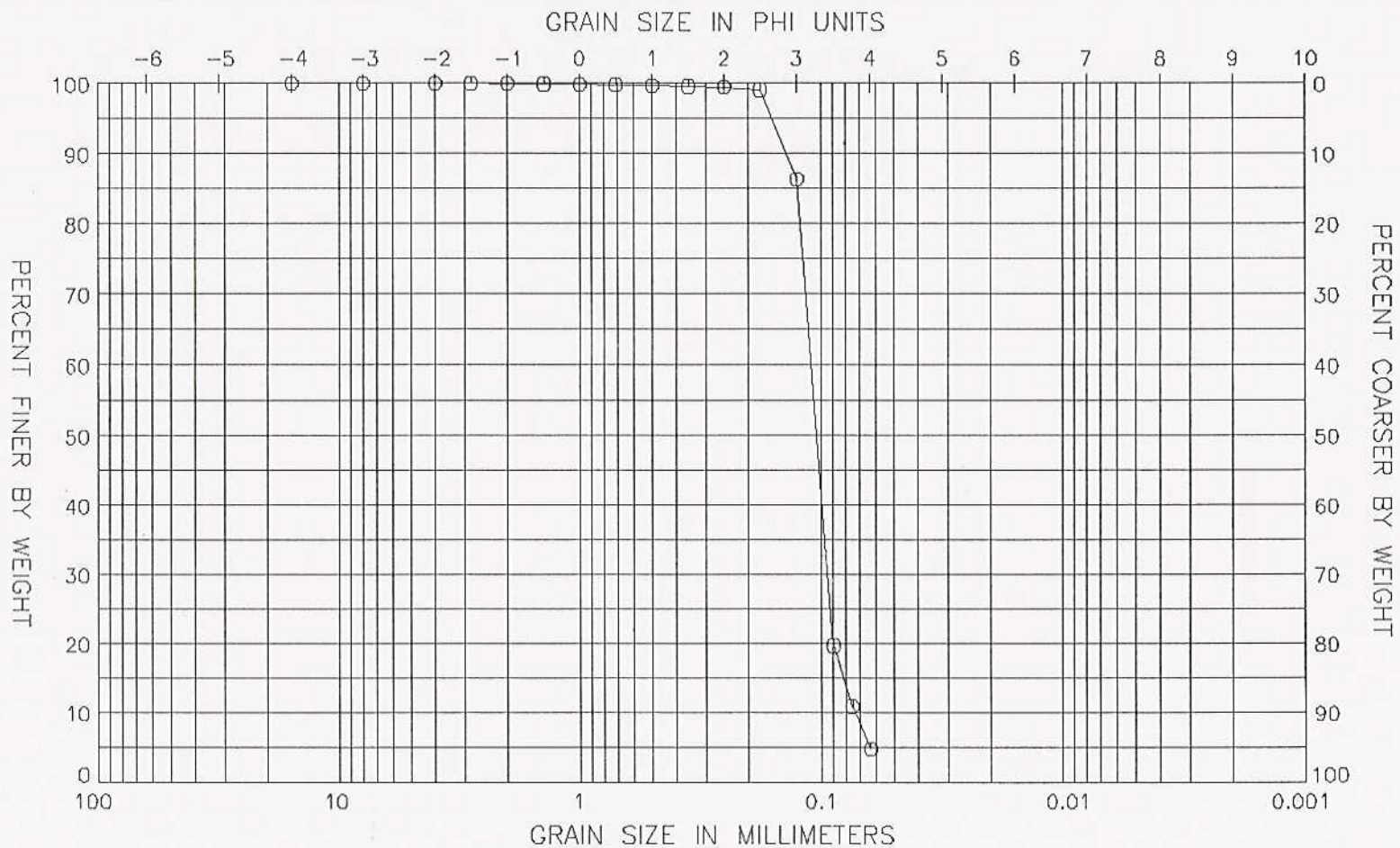
MEAN (PHI): 3.09	SORTING: 0.61
MEAN (mm): 0.12	

DATA FILE NAME: EI-00-15#3.TAB

GRAIN SIZE DISTRIBUTION CURVE ESTERO VC 2000



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-00-15#2 ①	4.0	4.0	SP-SM	0.11	0.10	0.35

GRAIN SIZE DISTRIBUTION CURVE ESTERO VC 2000

