

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"					
(Coordinates or Station)		11. DATUM FOR ELEVATION SHOWN ^(TBM or MSL)					
2. LOCATION X= 663346 Y= 763869765543		NGVD					
3. DRILLING AGENCY: Alpine Ocean Seismic Survey Inc.		12. MANUFACTURER'S DESIGNATION OF DRILL		ALPINE PNEUMATIC VIBRACORE			
(As shown on drawing title and file number)		13. TOT NO. OF OVERBURDEN SAMPLES TAKEN		Disturbed: 0.0 Undisturbed: 0.0			
4. HOLE NO. EI-00-25		14. TOTAL NO. OF CORE BOXES					
5. NAME OF DRILLER MAURIZIO ROSSI		15. ELEVATION GROUND WATER					
6. DIRECTION OF HOLE VERTICAL		16. DATE HOLE		Started Completed			
		8/16/00		1128			
7. THICKNESS OF BURDEN 0.0 FT		17. ELEVATION TOP OF HOLE -5.3 ft					
8. DEPTH DRILLED INTO ROCK N/A		18. TOTAL CORE RECOVERY FOR BORING 76%					
9. TOTAL DEPTH OF HOLE 19.76 ft		19. SIGNATURE OF GEOLOGIST SYED KHALIL					

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-5.3	0					
	1					
	2					
	3					
	4		SAND, fine-grained, trace shell hash, Light gray (5Y-7/1) (SP)		1	Sample #1, Depth = 4.0' Mean (mm): 0.13, Phi Sorting: 0.62 Silt: 1.8%
	5					
	6					
	7					
	8					
-14.5	9		SAND, fine-grained, trace silt, Gray (5Y-6/1) (SP-SM)		2	Sample #2, Depth = 9.6' Mean (mm): 0.14, Phi Sorting: 0.66 Silt: 7.6%
-15.5	10					
	11		SILTY SAND, fine grained, trace clay, some shell hash/shell fragments/whole shell, (SM)		3	Sample #3, Depth = 11.5' Mean (mm): 0.33, Phi Sorting: 2.44 Silt: 37.4%
	12					
	13					
	14					
-20.8	15					
	16					
	17		NO RECOVERY			
	18					
	19					
-25.1	20		End of Boring			
	21		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			LAT - LONG 26 26.113 N 81 58.684 W
	22					
	23					
	24					

PROJECT: Estero Beach Restoration	HOLE NUMBER:
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GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-25#1

SAMPLE ELEV. (FT. NGVD): 4.0

SAMPLE DEPTH (FT.): 4.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 93.93

SAMPLE WEIGHT AFTER WASH (GRAMS): 92.47

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	0.56	0.60	99.40
7	-1.50	2.800	0.78	0.83	99.17
10	-1.00	2.000	0.92	0.98	99.02
14	-0.50	1.400	1.03	1.10	98.90
18	0.00	1.000	1.12	1.19	98.81
25	0.50	0.710	1.24	1.32	98.68
35	1.00	0.500	1.34	1.43	98.57
45	1.50	0.355	1.46	1.55	98.45
60	2.00	0.250	1.68	1.79	98.21
80	2.50	0.180	2.54	2.70	97.30
120	3.00	0.125	53.47	56.93	43.07
170	3.50	0.090	90.77	96.64	3.36
200	3.75	0.075	92.25	98.21	1.79
230	4.00	0.063	93.14	99.16	0.84
PAN			93.92	99.99	0.01

PHI (5): 2.52

PHI (16): 2.62

PHI (25): 2.71

PHI (50): 2.94

PHI (75): 3.23

PHI (84): 3.34

PHI (95): 3.48

SIEVE LOSS (g): 0.01

SILT/CLAY: 1.79%

SKEWNESS: 0.179

KURTOSIS: 0.752

GRAPHIC METHOD

MEAN (PHI): 2.98

SORTING: 0.36

MEAN (mm): 0.13

MEDIAN (mm): 0.13

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.91

SORTING: 0.62

MEAN (mm): 0.13

DATA FILE NAME: EI-00-25#1.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-25#2
SAMPLE ELEV. (FT. NGVD): 9.6
SAMPLE DEPTH (FT.): 9.6
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 104.35
SAMPLE WEIGHT AFTER WASH (GRAMS): 97.00

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	0.14	0.13	99.87
10	-1.00	2.000	0.39	0.37	99.63
14	-0.50	1.400	0.88	0.84	99.16
18	0.00	1.000	1.54	1.48	98.52
25	0.50	0.710	2.31	2.21	97.79
35	1.00	0.500	2.98	2.86	97.14
45	1.50	0.355	3.66	3.51	96.49
60	2.00	0.250	4.58	4.39	95.61
80	2.50	0.180	7.53	7.22	92.78
120	3.00	0.125	57.06	54.68	45.32
170	3.50	0.090	93.58	89.68	10.32
200	3.75	0.075	96.37	92.35	7.65
230	4.00	0.063	100.59	96.39	3.61
PAN			104.34	99.99	0.01

PHI(5): 2.11 PHI(16): 2.59 PHI(25): 2.69
PHI(50): 2.95 PHI(75): 3.29 PHI(84): 3.42
PHI(95): 3.91

SIEVE LOSS(g): 0.01 SILT/CLAY: 7.65%
SKEWNESS: 0.146 KURTOSIS: 1.227

GRAPHIC METHOD

MEAN (PHI): 3.00 SORTING: 0.41
MEAN (mm): 0.13 MEDIAN (mm): 0.13
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.88 SORTING: 0.66
MEAN (mm): 0.14

DATA FILE NAME: EI-00-25#2.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-25#3
SAMPLE ELEV. (FT. NGVD): 11.5
SAMPLE DEPTH (FT.): 11.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 98.59
SAMPLE WEIGHT AFTER WASH (GRAMS): 62.68

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	3.13	3.17	96.83
5	-2.00	4.000	11.01	11.17	88.83
7	-1.50	2.800	14.67	14.88	85.12
10	-1.00	2.000	17.93	18.19	81.81
14	-0.50	1.400	21.10	21.40	78.60
18	0.00	1.000	23.24	23.57	76.43
25	0.50	0.710	25.27	25.63	74.37
35	1.00	0.500	27.26	27.65	72.35
45	1.50	0.355	29.23	29.65	70.35
60	2.00	0.250	31.78	32.23	67.77
80	2.50	0.180	34.74	35.24	64.76
120	3.00	0.125	42.94	43.55	56.45
170	3.50	0.090	56.76	57.57	42.43
200	3.75	0.075	61.73	62.61	37.39
230	4.00	0.063	80.44	81.60	18.40
PAN			98.58	99.99	0.01

PHI (5): -2.77 PHI (16): -1.33 PHI (25): 0.35
PHI (50): 3.23 PHI (75): 3.91 PHI (84): 4.03
PHI (95): 4.18

SIEVE LOSS (g): 0.01 SILT/CLAY: 37.39%
SKEWNESS: -0.943 KURTOSIS: 0.798

GRAPHIC METHOD

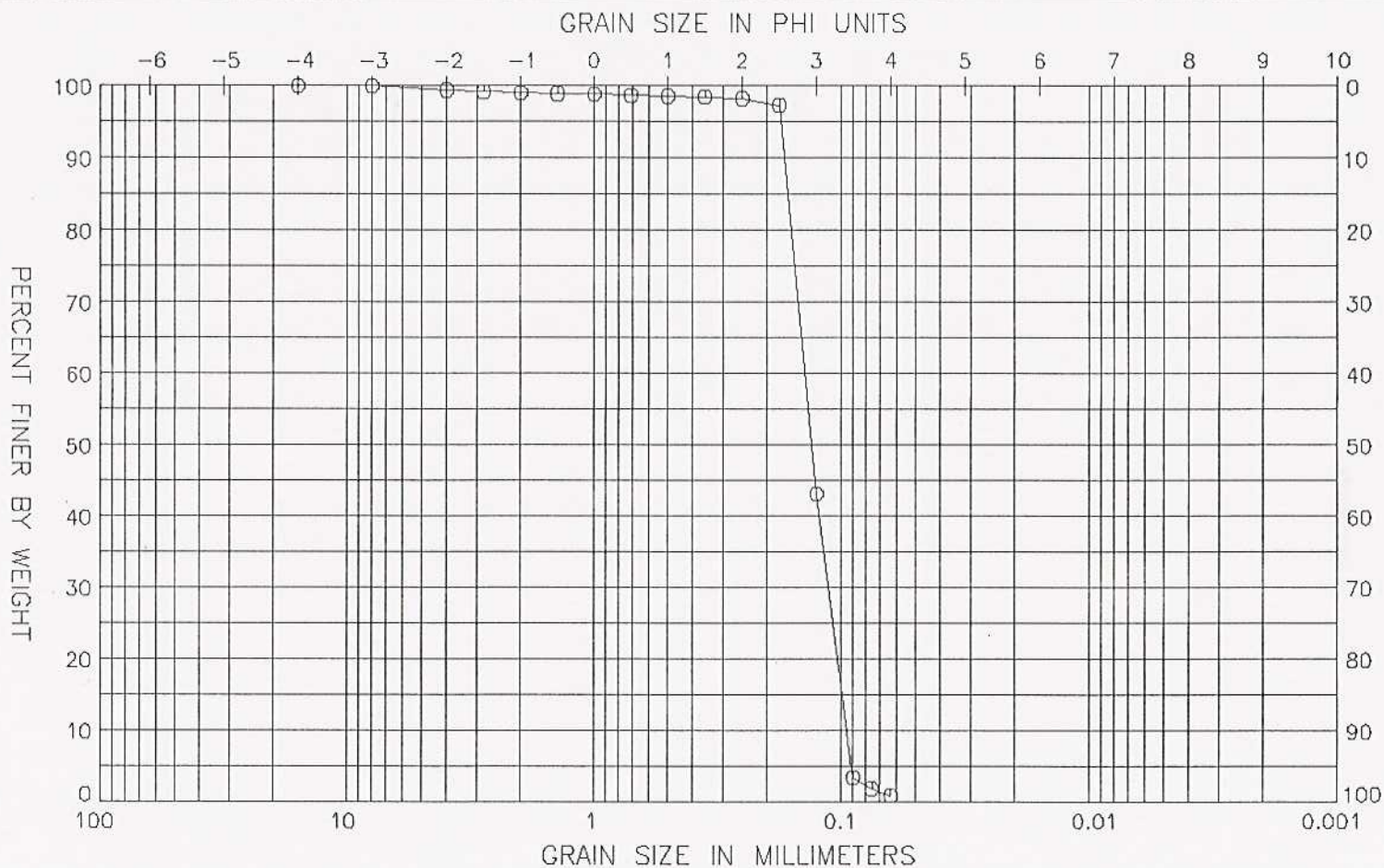
MEAN (PHI): 1.47 SORTING: 2.68
MEAN (mm): 0.36 MEDIAN (mm): 0.11
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.61 SORTING: 2.44
MEAN (mm): 0.33

DATA FILE NAME: EI-00-25#3.TAB

PERCENT COARSER BY WEIGHT



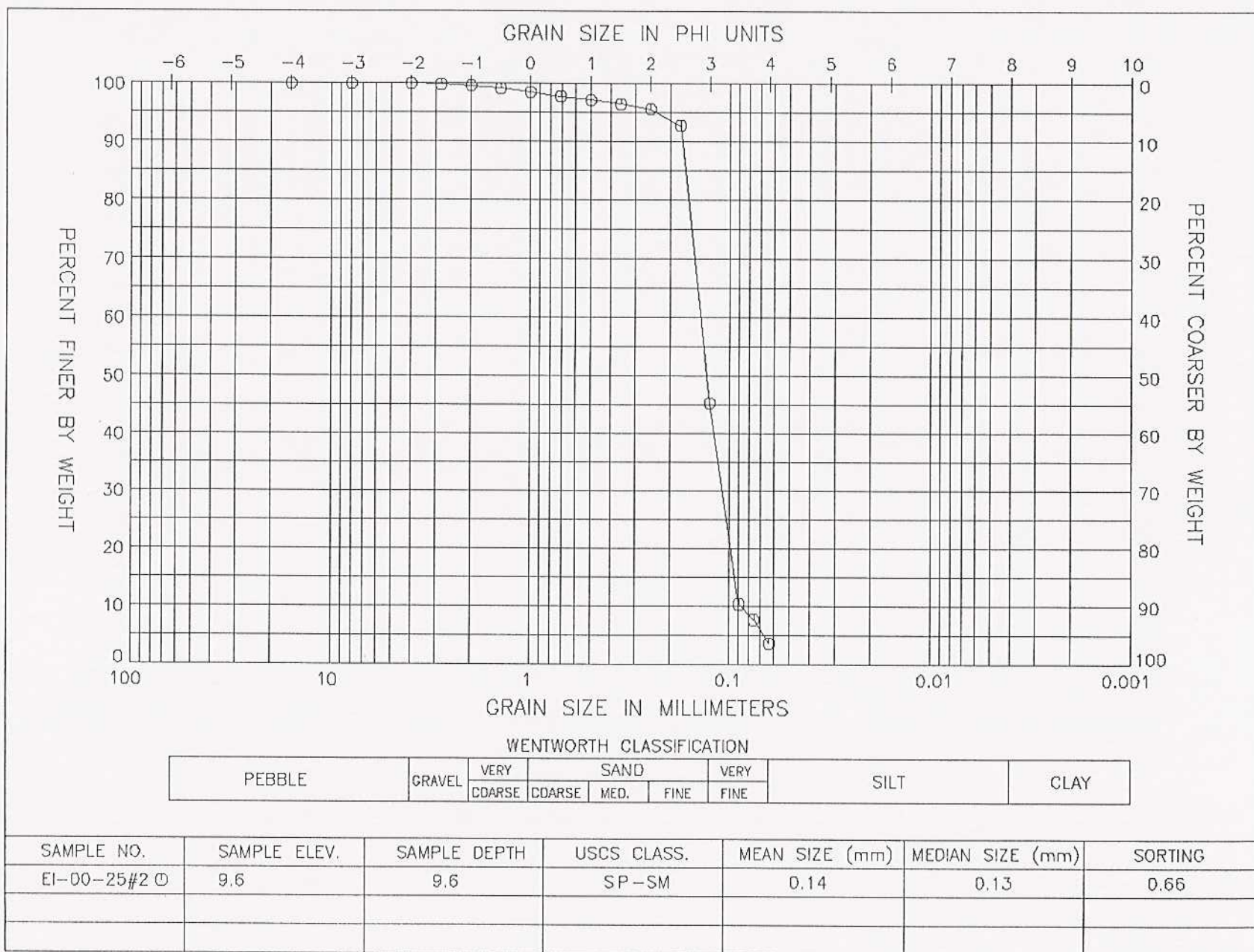
WENTWORTH CLASSIFICATION

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

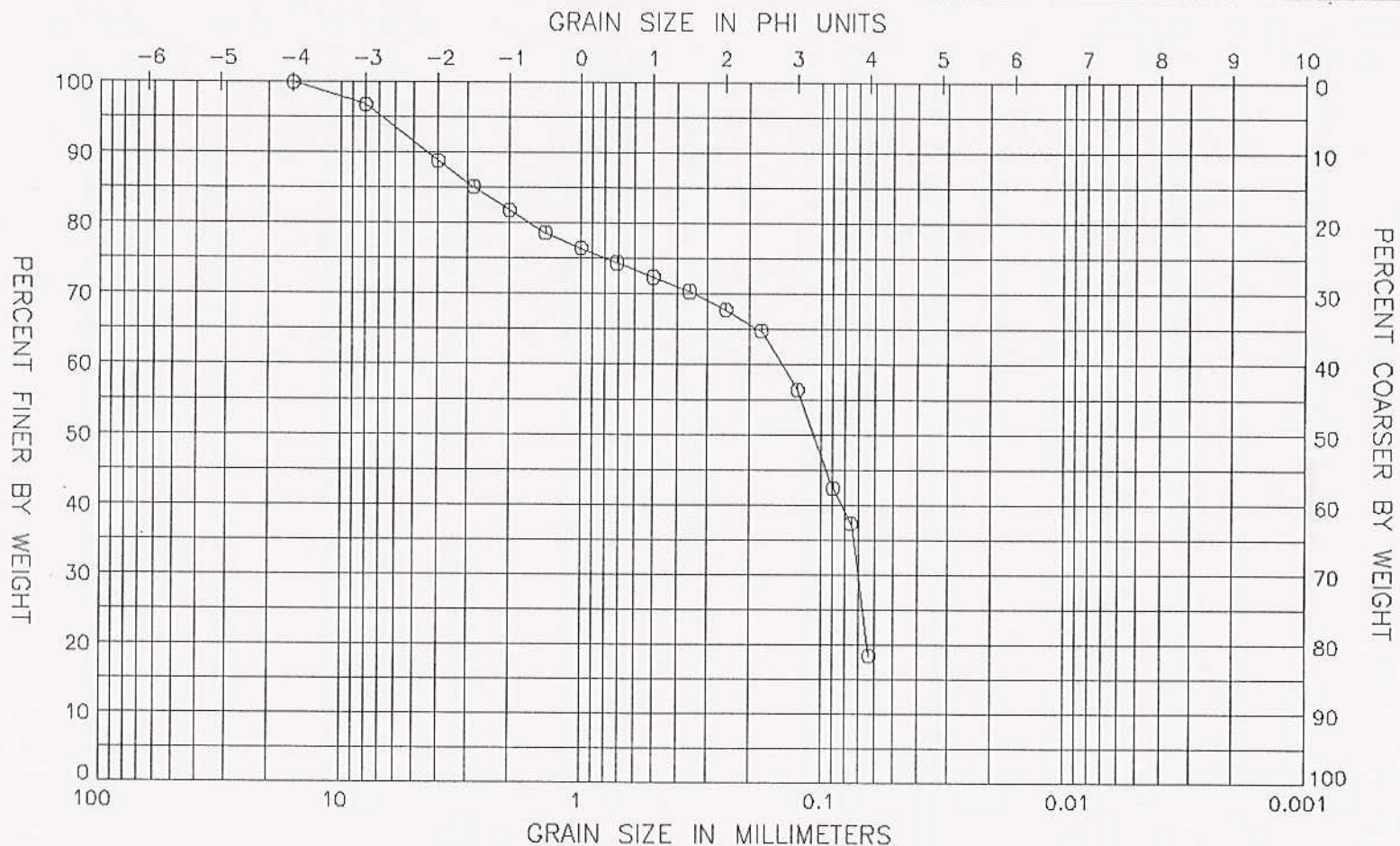
SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
EI-00-25#1	4.0	4.0	SP	0.13	0.13	0.62

GRAIN SIZE DISTRIBUTION CURVE
ESTERO VC 2000

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-D0-25#3	11.5	11.5	SP-SM	0.33	0.11	2.44



ESTERO
VC - 00 # 25

ESTERO
VC - 00 # 25

ESTERO
VC - 00 # 25

ESTERO
VC - 00 # 25

