

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= 687485 Y= 750366				NGVD			
3. DRILLING AGENCY: Alpine Ocean Seismic Survey Inc.				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number)				ALPINE PNEUMATIC VIBRACORE			
EI-00-06				13. TOT NO. OF OVERBURDEN SAMPLES TAKEN			
5. NAME OF DRILLER MAURIZIO ROSSI				Disturbed: 0.0 Undisturbed: 0.0			
6. DIRECTION OF HOLE VERTICAL				14. TOTAL NO. OF CORE BOXES			
7. THICKNESS OF BURDEN 0.0 FT				15. ELEVATION GROUND WATER			
8. DEPTH DRILLED INTO ROCK N/A				16. DATE HOLE Started Completed			
9. TOTAL DEPTH OF HOLE 19.0 ft				8/5/00 1357			
				17. ELEVATION TOP OF HOLE -8.0 ft			
				18. TOTAL CORE RECOVERY FOR BORING 82%			
				19. SIGNATURE OF GEOLOGIST SYED KHALIL			

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-8	0					
	1		SAND, fine-grained, trace shell hash, White (5Y-8/1) (SP)		1	Sample #1, Depth = 1.0' Mean (mm): 0.18, Phi Sorting: 0.86 Silt: 1.4%
-10	2		fine-grained, some shell hash/shell fragments, Gray (5Y-6/1) (SP) from -10.0' to -10.9'			
-10.9	3				2	Sample #2, Depth = 3.0' Mean (mm): 0.24, Phi Sorting: 1.77 Silt: 5.1%
	4					
	5		SAND, fine-grained, trace silt, trace shell hash/shell fragments, Gray (5Y-5/1) (SP-SM)		3	Sample #3, Depth = 5.5' Mean (mm): 0.21, Phi Sorting: 1.70 Silt: 9.8%
	6					
-15.6	7					
	8		fine-grained, trace silt, trace shell hash/shell fragments, Gray (5Y-5/1) (SP-SM) from -15.6' to -17.0'			
-17	9					
	10		SILTY CLAY, little shell hash/shell fragments, Dark gray (5Y-4/1) (ML-CL)			
-19.4	11					
	12		SILTY SAND, fine-grained, trace shell hash, Dark gray (5Y-4/1) (SM)			
-21.4	13					
-22.3	14		SILTY CLAY, shell hash & shell fragments, Dark gray (5Y-3/1) (ML-CL)			
-23.6	15		CALCAREOUS ROCKS, friable, Light gray, (5Y-7/1) (GP)			
	16					
	17		NO RECOVERY			
	18					
-27	19		End of Boring			
	20					
	21		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			LAT - LONG 26 23.880 N 81 54.257 W
	22					
	23					
	24					

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

SAMPLE NO.: EI-00-06#1
SAMPLE ELEV. (FT. NGVD): 1.0
SAMPLE DEPTH (FT.): 1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 99.44
SAMPLE WEIGHT AFTER WASH (GRAMS): 98.13

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	0.27	0.27	99.73
7	-1.50	2.800	0.67	0.67	99.33
10	-1.00	2.000	1.42	1.43	98.57
14	-0.50	1.400	2.51	2.52	97.48
18	0.00	1.000	3.64	3.66	96.34
25	0.50	0.710	4.99	5.02	94.98
35	1.00	0.500	6.51	6.55	93.45
45	1.50	0.355	8.02	8.07	91.93
60	2.00	0.250	11.69	11.76	88.24
80	2.50	0.180	28.56	28.72	71.28
120	3.00	0.125	85.27	85.75	14.25
170	3.50	0.090	97.74	98.29	1.71
200	3.75	0.075	98.04	98.59	1.41
230	4.00	0.063	98.76	99.32	0.68
PAN			99.43	99.99	0.01

PHI (5): 0.49 PHI (16): 2.13 PHI (25): 2.39
PHI (50): 2.69 PHI (75): 2.91 PHI (84): 2.98
PHI (95): 3.37

SIEVE LOSS(g): 0.01 SILT/CLAY: 1.41%
SKEWNESS: -1.758 KURTOSIS: 2.286

GRAPHIC METHOD

MEAN (PHI): 2.33 SORTING: 0.43
MEAN (mm): 0.20 MEDIAN (mm): 0.16
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.48 SORTING: 0.86
MEAN (mm): 0.18

DATA FILE NAME: EI-00-06#1.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 8/00

SAMPLE NO.: EI-00-6#2

SAMPLE ELEV. (FT. NGVD): 3.0

SAMPLE DEPTH (FT.): 3.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 99.28

SAMPLE WEIGHT AFTER WASH (GRAMS): 95.25

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	6.32	6.37	93.63
7	-1.50	2.800	9.48	9.55	90.45
10	-1.00	2.000	11.80	11.89	88.11
14	-0.50	1.400	14.28	14.38	85.62
18	0.00	1.000	16.03	16.15	83.85
25	0.50	0.710	17.73	17.86	82.14
35	1.00	0.500	19.04	19.18	80.82
45	1.50	0.355	20.06	20.21	79.79
60	2.00	0.250	22.11	22.27	77.73
80	2.50	0.180	28.77	28.98	71.02
120	3.00	0.125	71.18	71.70	28.30
170	3.50	0.090	93.08	93.76	6.24
200	3.75	0.075	94.19	94.87	5.13
230	4.00	0.063	97.21	97.91	2.09
PAN			99.28	100.00	0.00

PHI (5): -2.21

PHI (16): -0.04

PHI (25): 2.20

PHI (50): 2.75

PHI (75): 3.07

PHI (84): 3.28

PHI (95): 3.76

SIEVE LOSS (g): 0.00

SILT/CLAY: 5.13%

SKEWNESS: -1.188

KURTOSIS: 2.810

GRAPHIC METHOD

MEAN (PHI): 1.51

SORTING: 1.66

MEAN (mm): 0.35

MEDIAN (mm): 0.15

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.04

SORTING: 1.77

MEAN (mm): 0.24

DATA FILE NAME: EI-00-06#2.TAB

GRADATION ANALYSIS REPORT
ESTERO VC 2000
TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-06#3
SAMPLE ELEV. (FT. NGVD): 4.0
SAMPLE DEPTH (FT.): 4.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 99.55
SAMPLE WEIGHT AFTER WASH (GRAMS): 90.59

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	2.45	2.46	97.54
5	-2.00	4.000	4.13	4.15	95.85
7	-1.50	2.800	5.44	5.46	94.54
10	-1.00	2.000	7.03	7.06	92.94
14	-0.50	1.400	11.87	11.92	88.08
18	0.00	1.000	13.03	13.09	86.91
25	0.50	0.710	14.37	14.43	85.57
35	1.00	0.500	15.65	15.72	84.28
45	1.50	0.355	17.09	17.17	82.83
60	2.00	0.250	18.94	19.03	80.97
80	2.50	0.180	24.14	24.25	75.75
120	3.00	0.125	62.34	62.62	37.38
170	3.50	0.090	87.09	87.48	12.52
200	3.75	0.075	89.83	90.24	9.76
230	4.00	0.063	94.76	95.19	4.81
PAN			99.54	99.99	0.01

PHI (5): -1.68 PHI (16): 1.10 PHI (25): 2.51
PHI (50): 2.84 PHI (75): 3.25 PHI (84): 3.43
PHI (95): 3.99

SIEVE LOSS (g): 0.01 SILT/CLAY: 9.76%
SKEWNESS: -1.439 KURTOSIS: 3.142

GRAPHIC METHOD

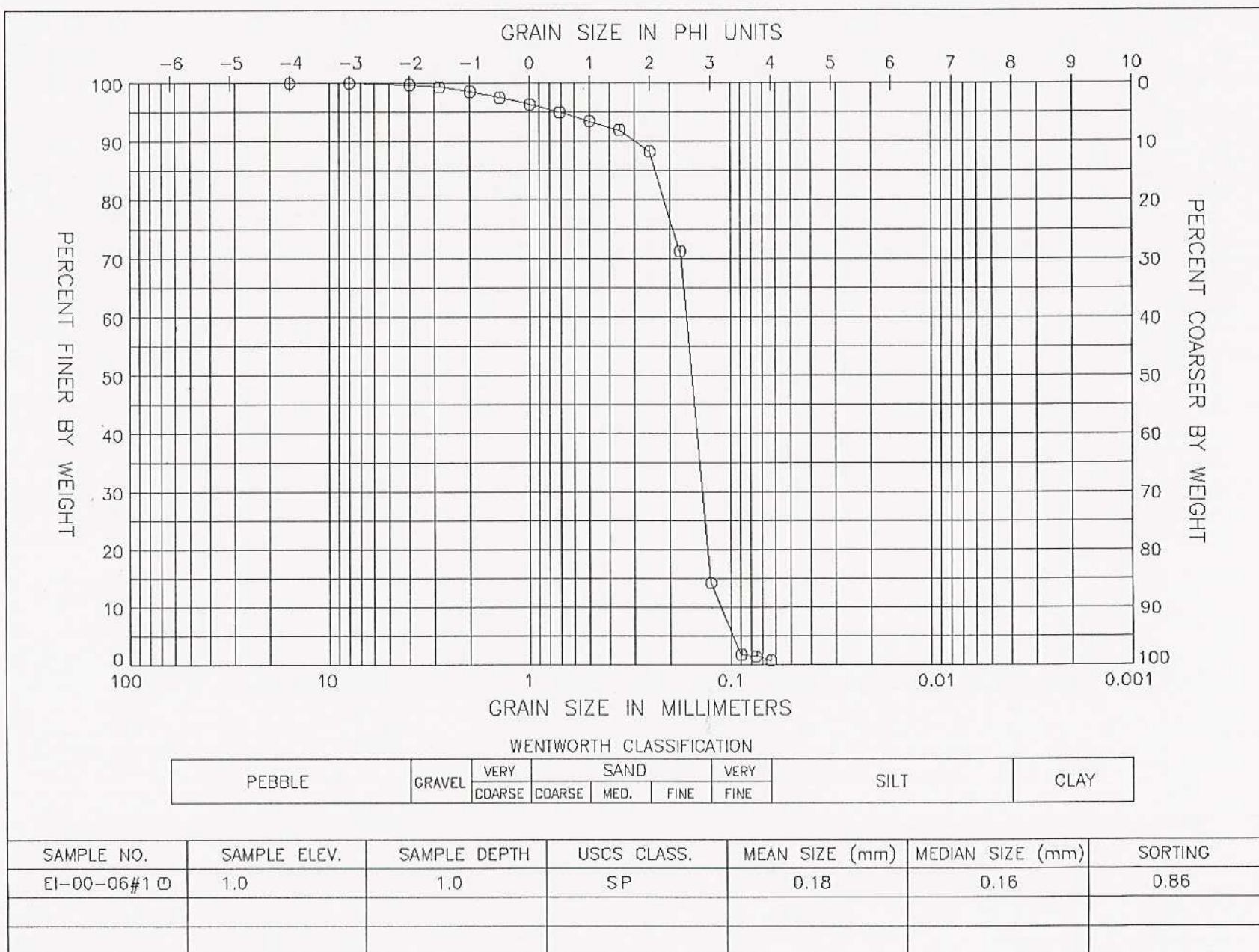
MEAN (PHI): 1.94 SORTING: 1.17
MEAN (mm): 0.26 MEDIAN (mm): 0.14
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

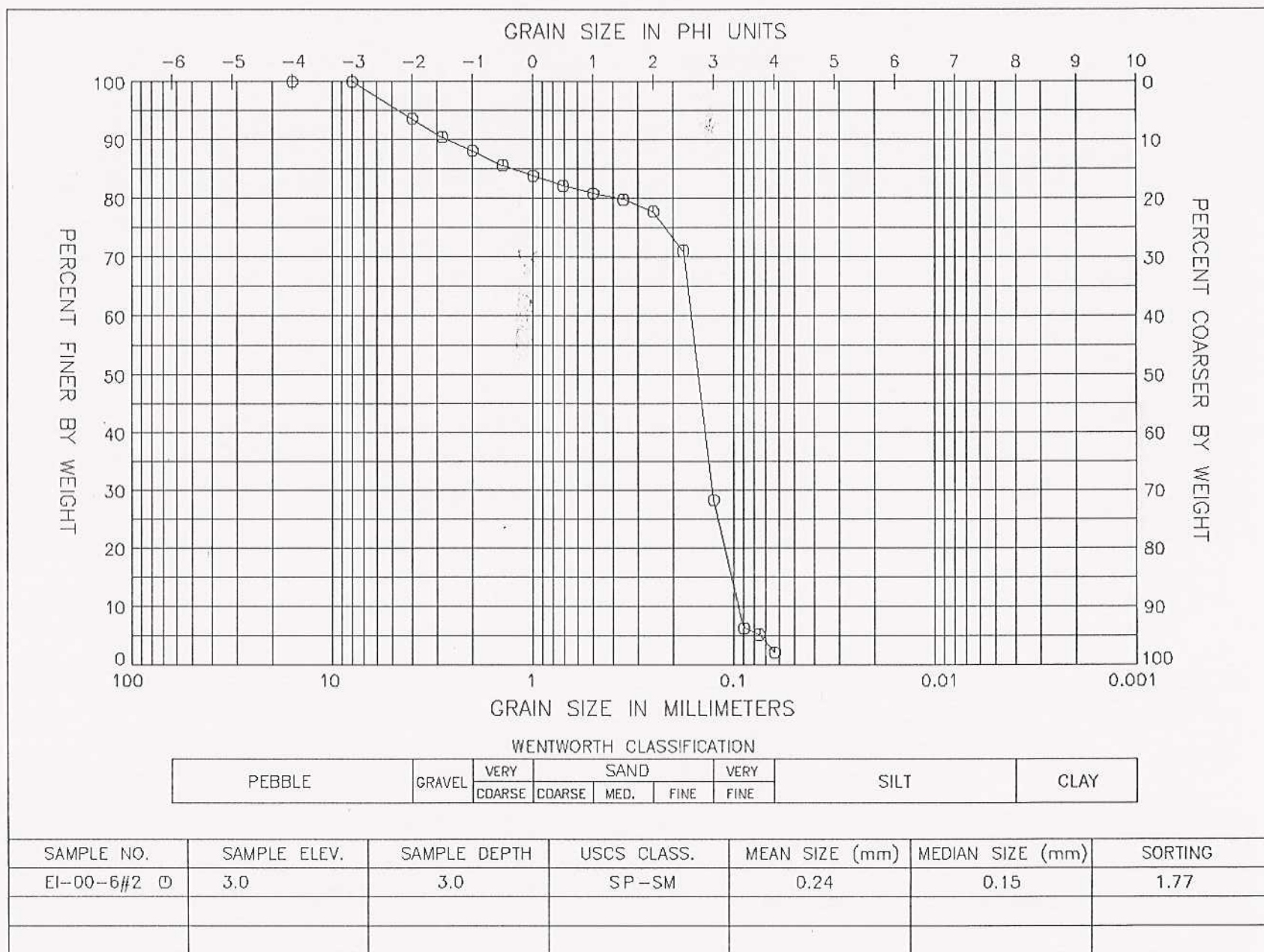
MEAN (PHI): 2.23 SORTING: 1.70
MEAN (mm): 0.21

DATA FILE NAME: EI-00-06#3.TAB

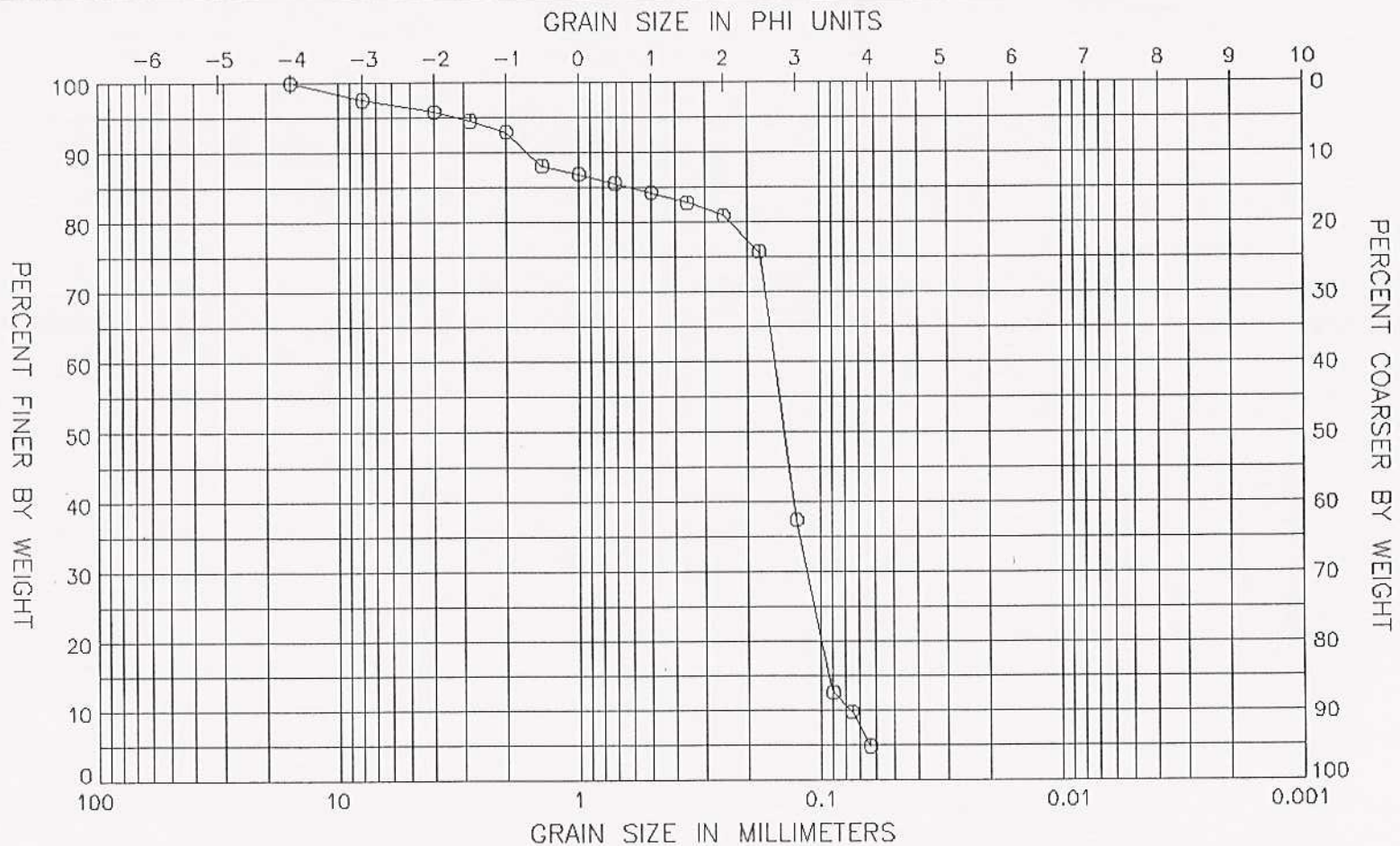
GRAIN SIZE DISTRIBUTION CURVE
ESTERO VC 2000



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-00-06#3	4.0	4.0	SP-SM	0.21	0.14	1.70





