

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= 662415 Y= 763999		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-00-30c		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 1449	
8. DEPTH DRILLED INTO ROCK N/A			17. ELEVATION TOP OF HOLE -5.8 ft	
9. TOTAL DEPTH OF HOLE 13.77 ft			18. TOTAL CORE RECOVERY FOR BORING 65%	
			19. SIGNATURE OF GEOLOGIST SYED KHALIL	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-5.8	0					
	1					
	2		SAND, fine-grained, trace shell hash, 1.5" of shell hash/shell fragments @ -10.25', Light gray (5Y-7/1) (SP-SM)		1	Sample #1, Depth = 2.5' Mean (mm): 0.13, Phi Sorting: 0.58 Silt: 7.5%
	3					
	4					
-10.7	5					
	6		SILTY SAND, fine-grained, trace shell hash, Gray (5Y-6/1) (SM)			
	7				2	Sample #2, Depth = 7.0' Mean (mm): 0.14, Phi Sorting: 0.74 Silt: 12.8%
-13.9	8					
-14.7	9		fine-grained, trace clay, trace shell hash/shell fragments, Gray (5Y-6/1) (SM) from -13.9 to -14.7'		3	Sample #3, Depth = 8.5' Mean (mm): 0.18, Phi Sorting: 1.77 Silt: 18.6%
	10					
	11		NO RECOVERY			
	12					
	13					
-19.6	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 26.133 N 81 58.854 W
	23					
	24					

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-30C#1
SAMPLE ELEV. (FT. NGVD): 2.5
SAMPLE DEPTH (FT.): 2.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 93.85
SAMPLE WEIGHT AFTER WASH (GRAMS): 87.13

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	0.00	0.00	100.00
7	-1.50	2.800	0.08	0.09	99.91
10	-1.00	2.000	0.22	0.23	99.77
14	-0.50	1.400	0.55	0.59	99.41
18	0.00	1.000	0.96	1.02	98.98
25	0.50	0.710	1.42	1.51	98.49
35	1.00	0.500	1.88	2.00	98.00
45	1.50	0.355	2.27	2.42	97.58
60	2.00	0.250	2.68	2.86	97.14
80	2.50	0.180	3.84	4.09	95.91
120	3.00	0.125	41.77	44.51	55.49
170	3.50	0.090	84.35	89.88	10.12
200	3.75	0.075	86.85	92.54	7.46
230	4.00	0.063	90.45	96.38	3.62
PAN			93.85	100.00	0.00

PHI (5): 2.51 PHI (16): 2.65 PHI (25): 2.76
PHI (50): 3.06 PHI (75): 3.34 PHI (84): 3.44
PHI (95): 3.91

SIEVE LOSS (g): 0.00 SILT/CLAY: 7.46%
SKEWNESS: 0.381 KURTOSIS: 0.993

GRAPHIC METHOD

MEAN (PHI): 3.11 SORTING: 0.39
MEAN (mm): 0.12 MEDIAN (mm): 0.12

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.98 SORTING: 0.58
MEAN (mm): 0.13

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

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-30C#2

SAMPLE ELEV. (FT. NGVD): 7.0

SAMPLE DEPTH (FT.): 7.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 99.24

SAMPLE WEIGHT AFTER WASH (GRAMS): 86.86

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	0.33	0.33	99.67
10	-1.00	2.000	0.65	0.65	99.35
14	-0.50	1.400	1.29	1.30	98.70
18	0.00	1.000	1.96	1.98	98.02
25	0.50	0.710	2.59	2.61	97.39
35	1.00	0.500	3.19	3.21	96.79
45	1.50	0.355	3.82	3.85	96.15
60	2.00	0.250	4.65	4.69	95.31
80	2.50	0.180	7.05	7.10	92.90
120	3.00	0.125	58.51	58.96	41.04
170	3.50	0.090	84.89	85.54	14.46
200	3.75	0.075	86.51	87.17	12.83
230	4.00	0.063	92.98	93.69	6.31
PAN			99.22	99.98	0.02

PHI (5): 2.07

PHI (16): 2.59

PHI (25): 2.67

PHI (50): 2.91

PHI (75): 3.30

PHI (84): 3.47

PHI (95): 4.05

SIEVE LOSS (g): 0.02

SILT/CLAY: 12.83%

SKEWNESS: 0.325

KURTOSIS: 1.293

GRAPHIC METHOD

MEAN (PHI): 3.02

SORTING: 0.44

MEAN (mm): 0.12

MEDIAN (mm): 0.13

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.85

SORTING: 0.74

MEAN (mm): 0.14

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

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-30C#3
SAMPLE ELEV. (FT. NGVD): 8.5
SAMPLE DEPTH (FT.): 8.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 98.25
SAMPLE WEIGHT AFTER WASH (GRAMS): 80.46

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	5.55	5.65	94.35
7	-1.50	2.800	7.29	7.42	92.58
10	-1.00	2.000	8.84	9.00	91.00
14	-0.50	1.400	10.48	10.67	89.33
18	0.00	1.000	11.68	11.89	88.11
25	0.50	0.710	12.78	13.01	86.99
35	1.00	0.500	13.76	14.01	85.99
45	1.50	0.355	14.69	14.95	85.05
60	2.00	0.250	15.84	16.12	83.88
80	2.50	0.180	17.39	17.70	82.30
120	3.00	0.125	30.18	30.72	69.28
170	3.50	0.090	74.32	75.64	24.36
200	3.75	0.075	79.95	81.37	18.63
230	4.00	0.063	89.29	90.88	9.12
PAN			98.24	99.99	0.01

PHI (5): -2.11 PHI (16): 1.95 PHI (25): 2.78
PHI (50): 3.21 PHI (75): 3.49 PHI (84): 3.82
PHI (95): 4.11

SIEVE LOSS(g): 0.01 SILT/CLAY: 18.63%
SKEWNESS: -2.370 KURTOSIS: 3.580

GRAPHIC METHOD

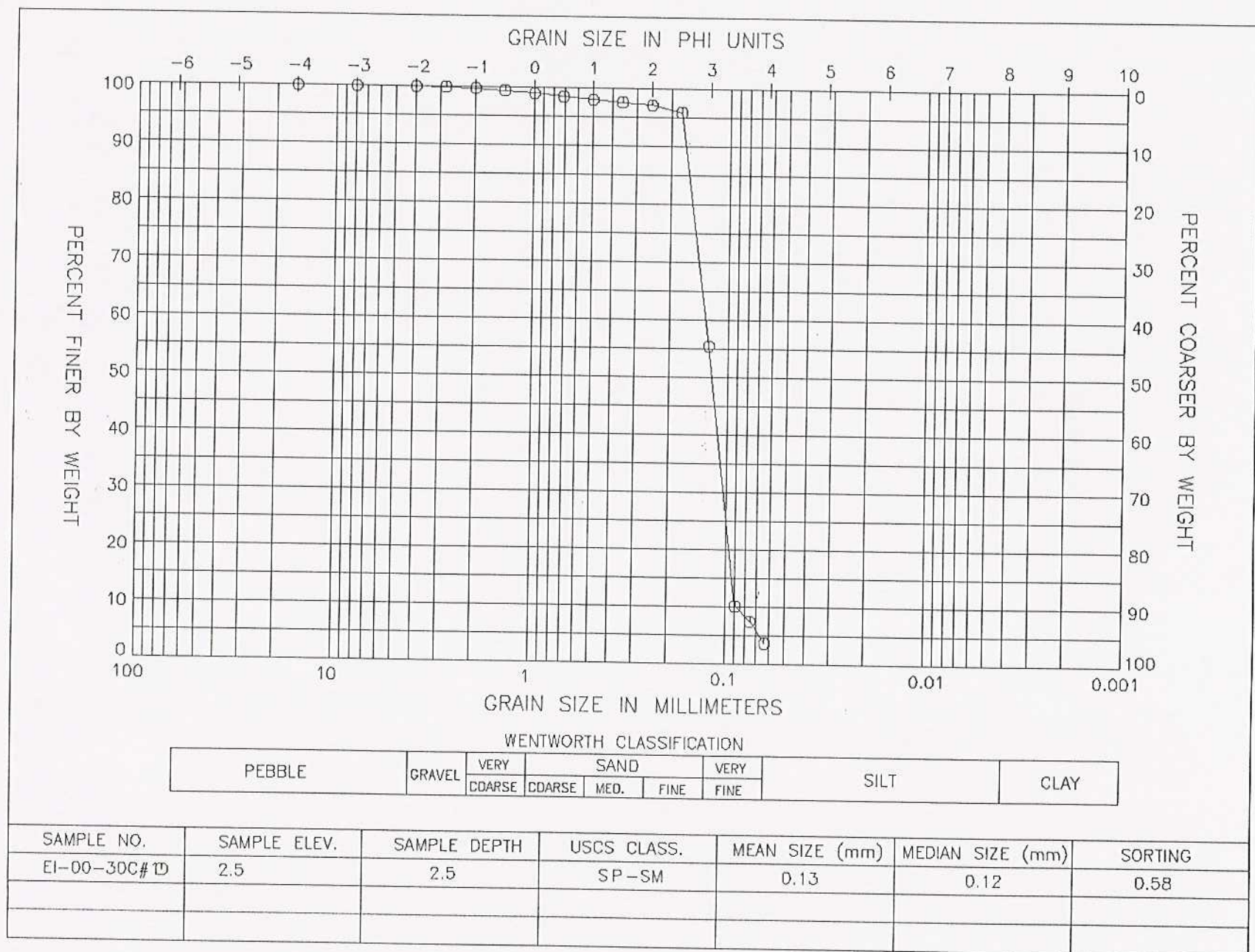
MEAN (PHI): 2.20 SORTING: 0.94
MEAN (mm): 0.22 MEDIAN (mm): 0.11
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

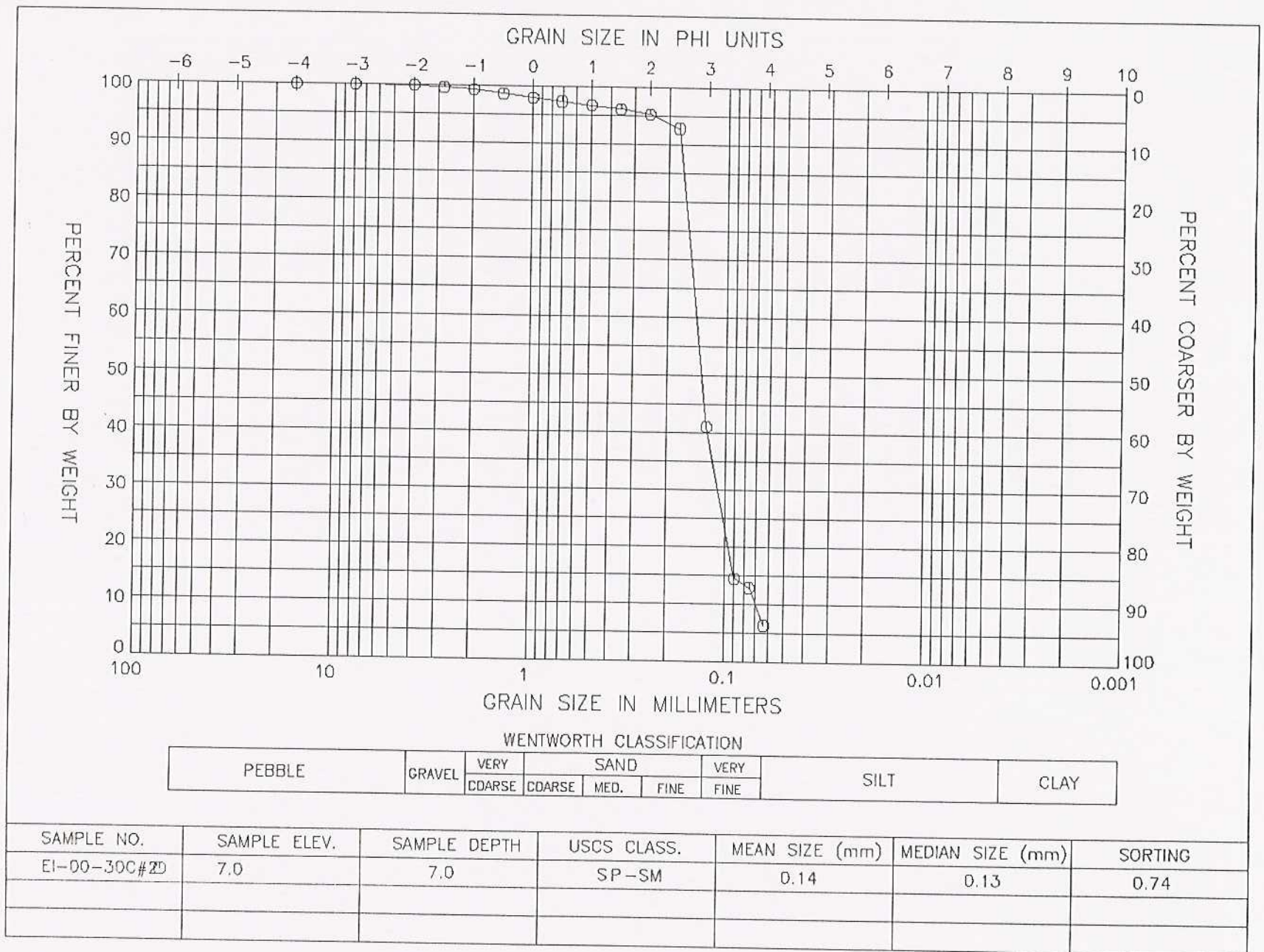
MEAN (PHI): 2.49 SORTING: 1.77
MEAN (mm): 0.18

DATA FILE NAME: EI-00-30C#3.TAB

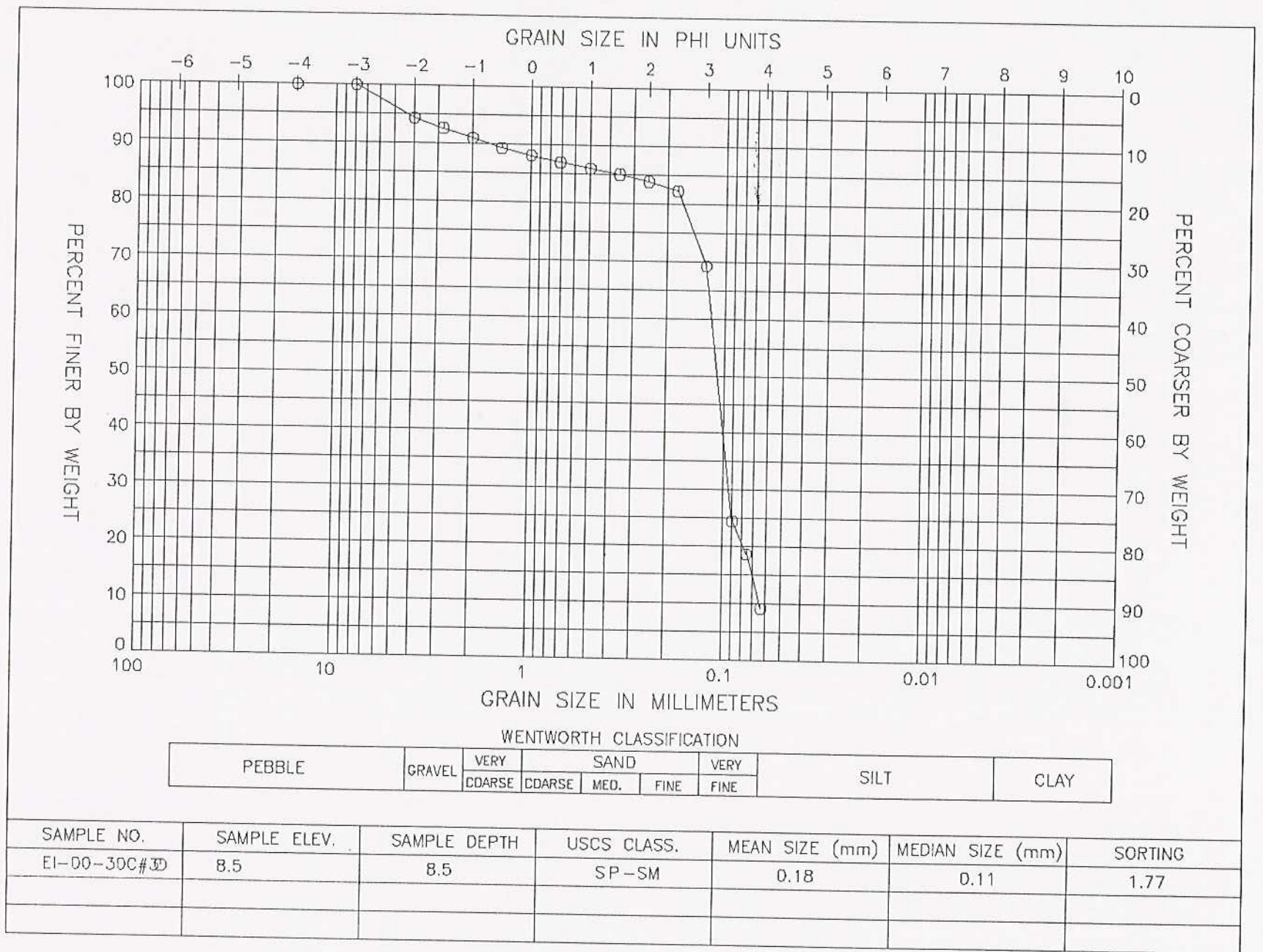
GRAIN SIZE DISTRIBUTION CURVE ESTERO VC 2000



GRAIN SIZE DISTRIBUTION CURVE
ESTERO VC 2000



GRAIN SIZE DISTRIBUTION CURVE
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