

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"		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		NGVD	
2. LOCATION (Coordinates or Station) X= 663982 Y= 765543		12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC VIBRACORE		13. TOT NO. OF OVERBURDEN SAMPLES TAKEN Disturbed: 0.0 Undisturbed: 0.0		14. TOTAL NO. OF CORE BOXES	
3. DRILLING AGENCY: Alpine Ocean Seismic Survey Inc.		15. ELEVATION GROUND WATER		16. DATE HOLE Started Completed 8/15/00 1349		17. ELEVATION TOP OF HOLE -4.5 ft	
4. HOLE NO. (As shown on drawing title and file number) EI-00-24		18. TOTAL CORE RECOVERY FOR BORING 84%		19. SIGNATURE OF GEOLOGIST SYED KHALIL			
5. NAME OF DRILLER MAURIZIO ROSSI		19. SIGNATURE OF GEOLOGIST SYED KHALIL					
6. DIRECTION OF HOLE VERTICAL							
7. THICKNESS OF BURDEN 0.0 FT							
8. DEPTH DRILLED INTO ROCK N/A							
9. TOTAL DEPTH OF HOLE 15.5 ft							

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-4.5	0					
	1					
	2					
	3		SAND, fine-grained, Light gray (5Y-7/1) (SP)		1	Sample #1, Depth = 3.0' Mean (mm): 0.13, Phi Sorting: 0.32 Silt: 2.9%
	4					
	5					
-10.5	6					
	7		SAND, fine-grained, trace silt, 1" pockets of clay @ 11.8' & 12.9', Gray (5Y-6/1) (SP-SM)		2	Sample #2, Depth = 8.0' Mean (mm): 0.12, Phi Sorting: 0.33 Silt: 5.3%
-13.5	8					
-14.1	9		fine-grained, trace silt, some shell hash/shell fragments, Gray (5Y-6/1) (SP-SM) from -13.5' to -14.1'		3	Sample #3, Depth = 9.4' Mean (mm): 0.30, Phi Sorting: 1.72 Silt: 8.6%
	10					
	11		SILTY SAND, fine grained, trace clay, some shell hash/shell fragments/whole shell, (SM)		4	Sample #4, Depth = 10.5' Mean (mm): 0.27, Phi Sorting: 2.05 Silt: 20.9%
-16.9	12					
-17.5	13		CARBONATE CLASTS, limestone cobbles/pebbles/gravels, fines of lime (GP)			
	14		NO RECOVERY			
-20	15					
	16		End of Boring			
	17					
	18					
	19					
	20					
	21		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			LAT - LONG 26 26.391 N 81 58.567 W
	22					
	23					
	24					

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-24#1

SAMPLE ELEV. (FT. NGVD): 3.0

SAMPLE DEPTH (FT.): 3.0

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 96.78

SAMPLE WEIGHT AFTER WASH (GRAMS): 94.31

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	0.03	0.03	99.97
14	-0.50	1.400	0.05	0.05	99.95
18	0.00	1.000	0.09	0.09	99.91
25	0.50	0.710	0.14	0.14	99.86
35	1.00	0.500	0.20	0.21	99.79
45	1.50	0.355	0.28	0.29	99.71
60	2.00	0.250	0.46	0.48	99.52
80	2.50	0.180	1.42	1.47	98.53
120	3.00	0.125	62.00	64.06	35.94
170	3.50	0.090	92.24	95.31	4.69
200	3.75	0.075	93.96	97.09	2.91
230	4.00	0.063	95.50	98.68	1.32
PAN			96.76	99.98	0.02

PHI (5): 2.53

PHI (16): 2.62

PHI (25): 2.69

PHI (50): 2.89

PHI (75): 3.18

PHI (84): 3.32

PHI (95): 3.50

SIEVE LOSS (g): 0.02

SILT/CLAY: 2.91%

SKEWNESS: 0.353

KURTOSIS: 0.814

GRAPHIC METHOD

MEAN (PHI): 2.97

SORTING: 0.35

MEAN (mm): 0.13

MEDIAN (mm): 0.14

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.93

SORTING: 0.32

MEAN (mm): 0.13

DATA FILE NAME: EI-00-24#1.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-24#4

SAMPLE ELEV. (FT. NGVD): 10.5

SAMPLE DEPTH (FT.): 10.5

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 99.56

SAMPLE WEIGHT AFTER WASH (GRAMS): 79.41

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	1.95	1.96	98.04
5	-2.00	4.000	7.18	7.21	92.79
7	-1.50	2.800	10.73	10.78	89.22
10	-1.00	2.000	13.19	13.25	86.75
14	-0.50	1.400	15.68	15.75	84.25
18	0.00	1.000	18.30	18.38	81.62
25	0.50	0.710	21.05	21.14	78.86
35	1.00	0.500	23.93	24.04	75.96
45	1.50	0.355	26.40	26.52	73.48
60	2.00	0.250	29.22	29.35	70.65
80	2.50	0.180	32.60	32.74	67.26
120	3.00	0.125	54.32	54.56	45.44
170	3.50	0.090	75.88	76.22	23.78
200	3.75	0.075	78.74	79.09	20.91
230	4.00	0.063	89.27	89.67	10.33
PAN			99.54	99.98	0.02

PHI (5): -2.42

PHI (16): -0.45

PHI (25): 1.19

PHI (50): 2.90

PHI (75): 3.47

PHI (84): 3.87

PHI (95): 4.13

SIEVE LOSS (g): 0.02

SILT/CLAY: 20.91%

SKEWNESS: -0.946

KURTOSIS: 1.178

GRAPHIC METHOD

MEAN (PHI): 1.60

SORTING: 2.16

MEAN (mm): 0.33

MEDIAN (mm): 0.13

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.88

SORTING: 2.05

MEAN (mm): 0.27

DATA FILE NAME: EI-00-24#4.TAB

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

SAMPLE NO.: EI-00-24#2
SAMPLE ELEV. (FT. NGVD): 8.0
SAMPLE DEPTH (FT.): 8.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 98.81
SAMPLE WEIGHT AFTER WASH (GRAMS): 94.13

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	0.00	0.00	100.00
10	-1.00	2.000	0.00	0.00	100.00
14	-0.50	1.400	0.00	0.00	100.00
18	0.00	1.000	0.03	0.03	99.97
25	0.50	0.710	0.06	0.06	99.94
35	1.00	0.500	0.09	0.09	99.91
45	1.50	0.355	0.14	0.14	99.86
60	2.00	0.250	0.36	0.36	99.64
80	2.50	0.180	0.92	0.93	99.07
120	3.00	0.125	42.34	42.85	57.15
170	3.50	0.090	90.24	91.33	8.67
200	3.75	0.075	93.54	94.67	5.33
230	4.00	0.063	96.39	97.55	2.45
PAN			98.79	99.98	0.02

PHI (5): 2.55 PHI (16): 2.68 PHI (25): 2.79
PHI (50): 3.07 PHI (75): 3.33 PHI (84): 3.42
PHI (95): 3.78

SIEVE LOSS (g): 0.02 SILT/CLAY: 5.33%
SKEWNESS: 0.242 KURTOSIS: 0.926

GRAPHIC METHOD

MEAN (PHI): 3.10 SORTING: 0.37
MEAN (mm): 0.12 MEDIAN (mm): 0.12
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 3.05 SORTING: 0.33
MEAN (mm): 0.12

DATA FILE NAME: EI-00-24#2.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-24#3
SAMPLE ELEV. (FT. NGVD): 9.4
SAMPLE DEPTH (FT.): 9.4
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 99.72
SAMPLE WEIGHT AFTER WASH (GRAMS): 91.51

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	3.24	3.25	96.75
7	-1.50	2.800	5.41	5.43	94.57
10	-1.00	2.000	8.63	8.65	91.35
14	-0.50	1.400	13.39	13.43	86.57
18	0.00	1.000	18.90	18.95	81.05
25	0.50	0.710	25.00	25.07	74.93
35	1.00	0.500	30.65	30.74	69.26
45	1.50	0.355	35.14	35.24	64.76
60	2.00	0.250	39.10	39.21	60.79
80	2.50	0.180	44.58	44.71	55.29
120	3.00	0.125	70.65	70.85	29.15
170	3.50	0.090	89.39	89.64	10.36
200	3.75	0.075	91.10	91.36	8.64
230	4.00	0.063	95.51	95.78	4.22
PAN			99.71	99.99	0.01

PHI (5): -1.60 PHI (16): -0.27 PHI (25): 0.49
PHI (50): 2.60 PHI (75): 3.11 PHI (84): 3.35
PHI (95): 3.96

SIEVE LOSS (g): 0.01 SILT/CLAY: 8.64%
SKEWNESS: -0.786 KURTOSIS: 0.870

GRAPHIC METHOD

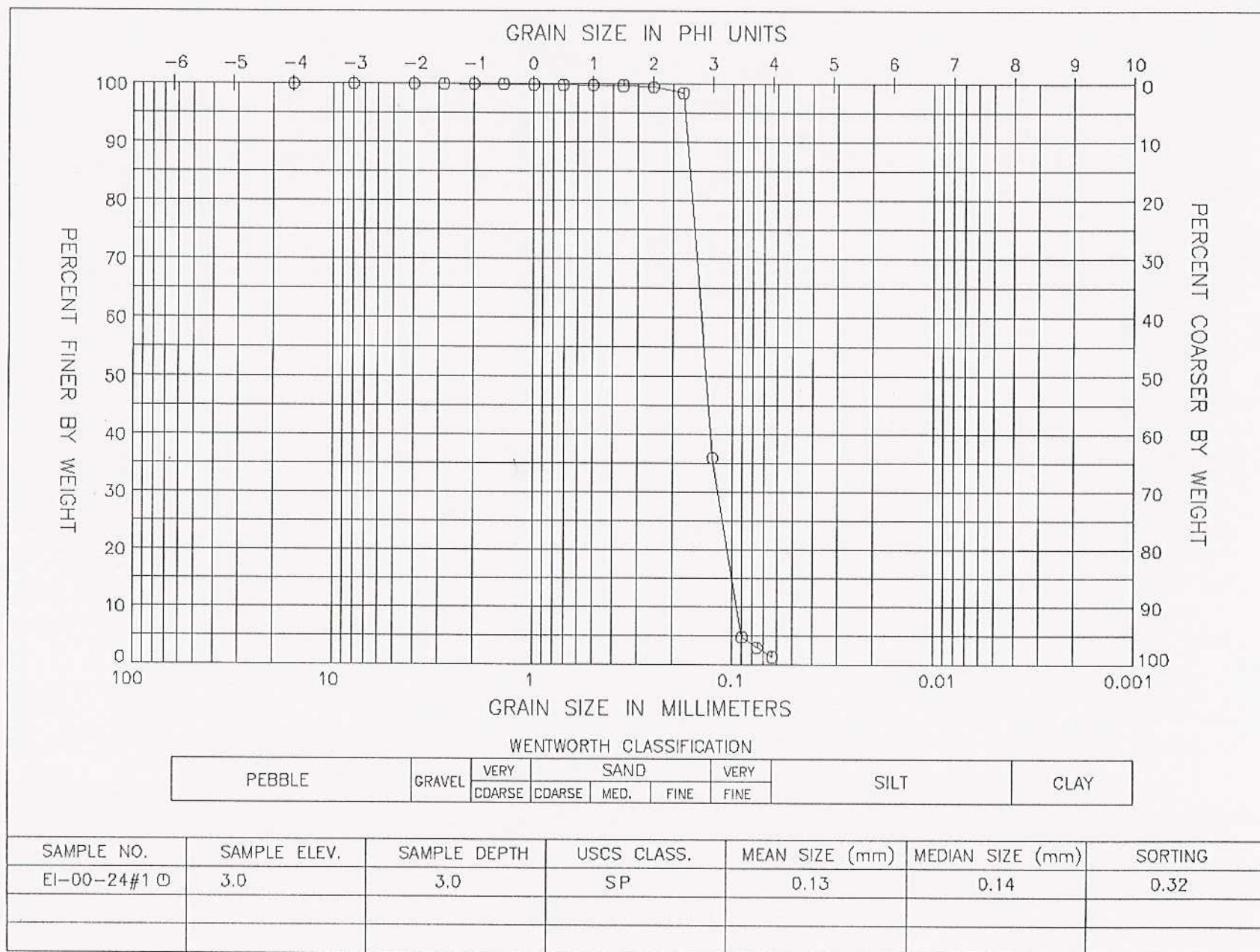
MEAN (PHI): 1.61 SORTING: 1.81
MEAN (mm): 0.33 MEDIAN (mm): 0.16
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

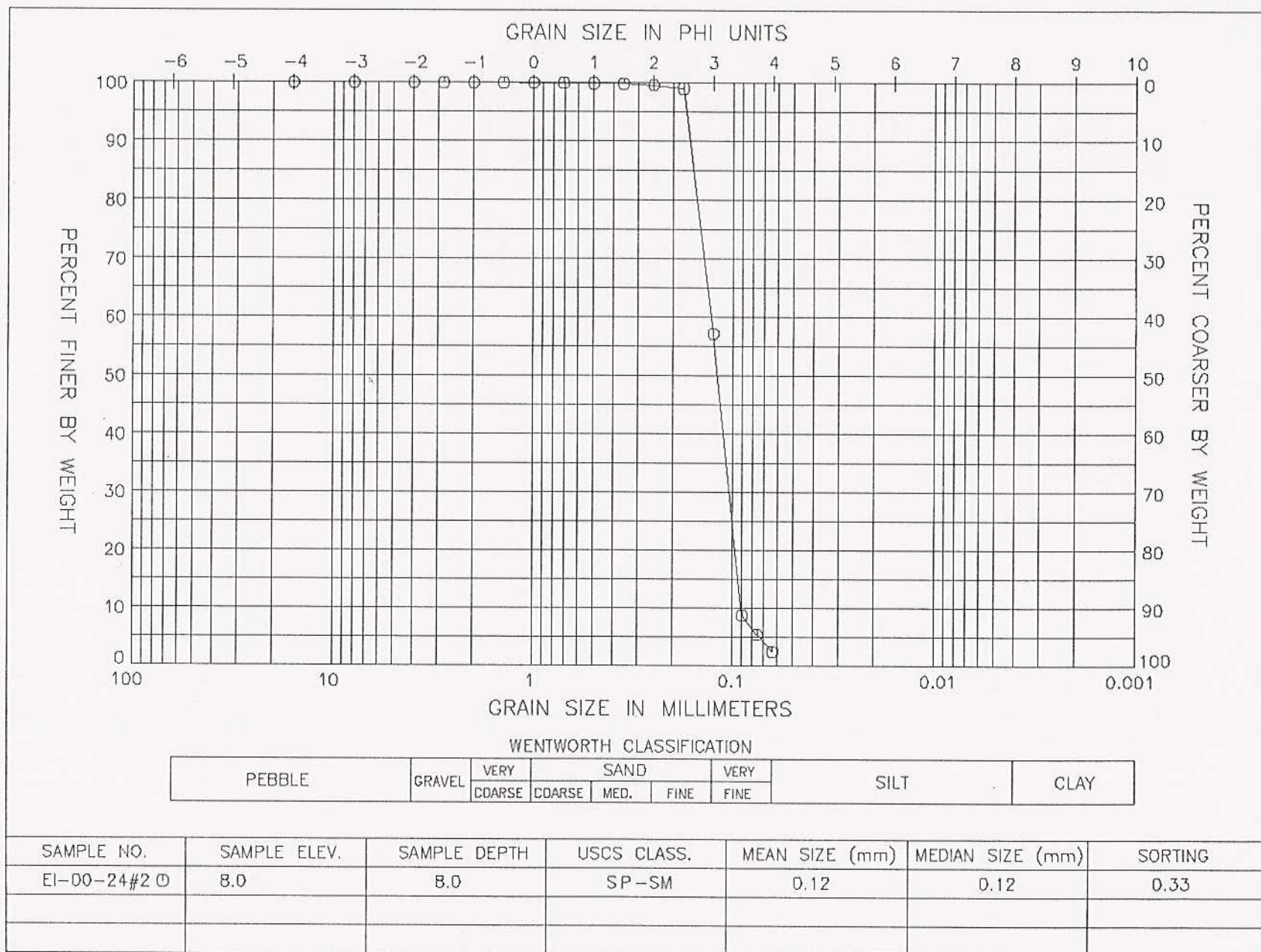
MEAN (PHI): 1.73 SORTING: 1.72
MEAN (mm): 0.30

DATA FILE NAME: EI-00-24#3.TAB

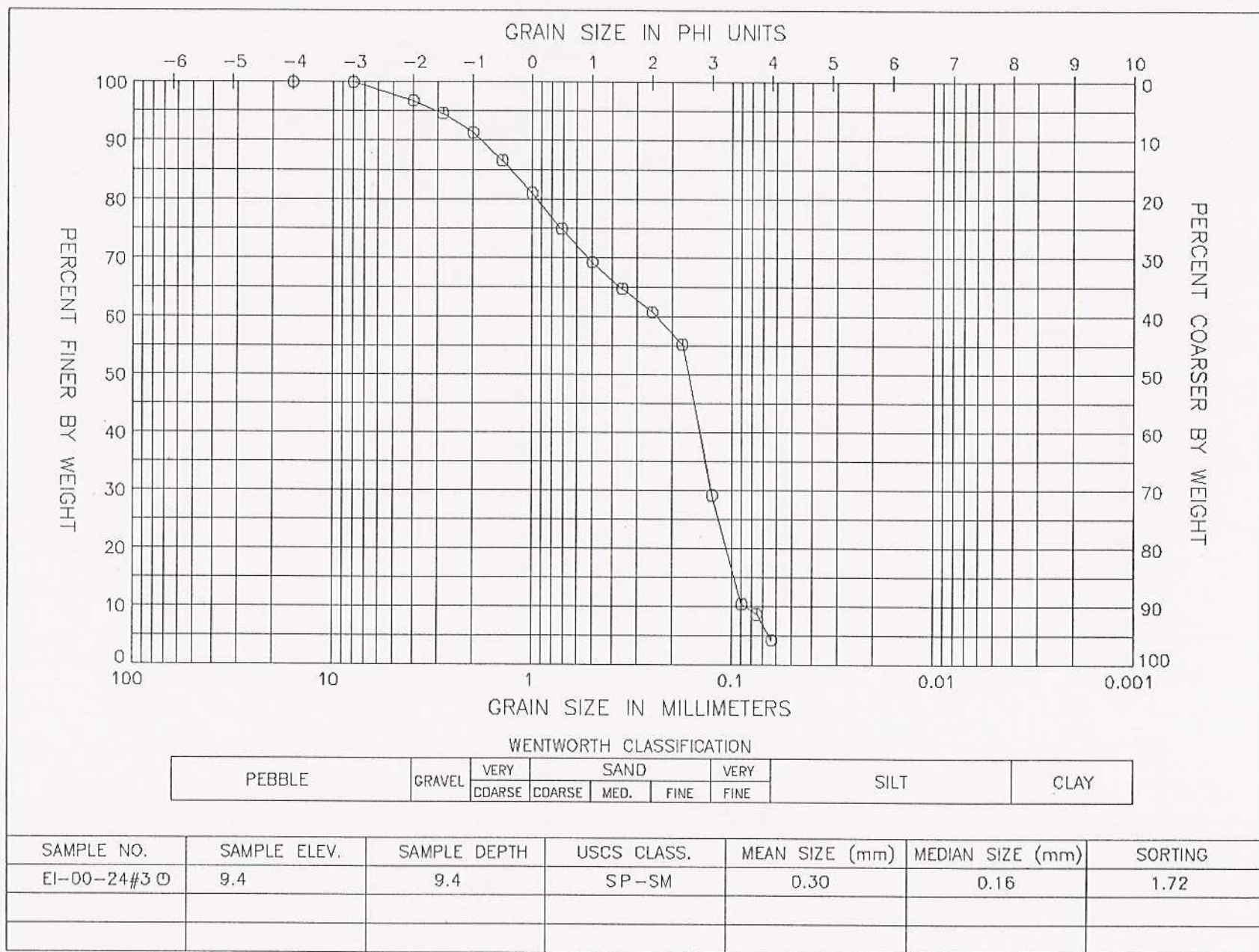
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