

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)			
(Coordinates or Station)				NGVD			
2. LOCATION X= 689645 Y= 747978		12. MANUFACTURER'S DESIGNATION OF DRILL		ALPINE PNEUMATIC VIBRACORE			
3. DRILLING AGENCY: Alpine Ocean Seismic Survey Inc.		13. TOT NO. OF OVERBURDEN SAMPLES TAKEN		Disturbed: 0.0 Undisturbed: 0.0			
4. HOLE NO. (As shown on drawing title and file number)		14. TOTAL NO. OF CORE BOXES					
EI-00-08		15. ELEVATION GROUND WATER					
5. NAME OF DRILLER MAURIZIO ROSSI		16. DATE HOLE		Started Completed			
6. DIRECTION OF HOLE VERTICAL		8/5/00		1446			
7. THICKNESS OF BURDEN 0.0 FT		17. ELEVATION TOP OF HOLE -10.1 ft					
8. DEPTH DRILLED INTO ROCK N/A		18. TOTAL CORE RECOVERY FOR BORING 99%					
9. TOTAL DEPTH OF HOLE 7.96 ft		19. SIGNATURE OF GEOLOGIST SYED KHALIL					

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-10.1	0					
-11.3	1		SILTY SAND, fine-grained, some shell hash/shell fragments, Light gray (5Y-7/1), pockets of silty clay, Gray (5Y-5/1) (SM)		1	Sample #1, Depth = 0.7' Mean (mm): 0.18, Phi Sorting: 1.57 Silt: 17.9%
	2		SAND, fine-grained, some shell hash/shell fragments, some silt, Light gray (5Y-7/1) to Gray (5Y-6/1) (SP) to (SP-SM) from -12.9' to -14.1'		2	Sample #2, Depth = 1.9' Mean (mm): 0.24, Phi Sorting: 1.63 Silt: 4.6%
	3				3	Sample #3, Depth = 2.8' Mean (mm): 0.17, Phi Sorting: 1.56 Silt: 12.3%
-14.1	4					
	5		SAND, little silt/clay, some shell hash/shell fragments, Gray (5Y-5/1) (SP-SM)			
-16.6	6				4	Sample #4, Depth = 6.0' Mean (mm): 0.35, Phi Sorting: 2.54 Silt: 10.0%
-18.1	7		CARBONATE CLAST, cobble to fines, some shell fragments, Gray (5Y-5/1) (GP)			
	8		End of Boring			
	9					
	10					
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	22		Note: 1) Soils are field visually classified in accordance with the Unified Soil Classification System.			LAT - LONG 26 23.493 N 81 53.864 W
	23					
	24					

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-08#1

SAMPLE ELEV. (FT. NGVD): 0.7

SAMPLE DEPTH (FT.): 0.7

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 99.69

SAMPLE WEIGHT AFTER WASH (GRAMS): 88.10

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	2.56	2.57	97.43
7	-1.50	2.800	4.77	4.78	95.22
10	-1.00	2.000	6.51	6.53	93.47
14	-0.50	1.400	8.80	8.83	91.17
18	0.00	1.000	10.56	10.59	89.41
25	0.50	0.710	12.72	12.76	87.24
35	1.00	0.500	14.57	14.62	85.38
45	1.50	0.355	15.91	15.96	84.04
60	2.00	0.250	17.86	17.92	82.08
80	2.50	0.180	20.82	20.88	79.12
120	3.00	0.125	46.04	46.18	53.82
170	3.50	0.090	81.85	82.10	17.90
200	3.75	0.075	81.90	82.15	17.85
230	4.00	0.063	93.42	93.71	6.29
PAN			99.68	99.99	0.01

PHI (5): -1.44

PHI (16): 1.51

PHI (25): 2.58

PHI (50): 3.05

PHI (75): 3.40

PHI (84): 3.79

PHI (95): 4.03

SIEVE LOSS (g): 0.01

SILT/CLAY: 17.85%

SKEWNESS: -1.543

KURTOSIS: 2.733

GRAPHIC METHOD

MEAN (PHI): 2.19

SORTING: 1.14

MEAN (mm): 0.22

MEDIAN (mm): 0.12

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.46

SORTING: 1.57

MEAN (mm): 0.18

DATA FILE NAME: EI-00-08#1.TAB

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

SAMPLE NO.: EI-00-08#2
SAMPLE ELEV. (FT. NGVD): 1.9
SAMPLE DEPTH (FT.): 1.9
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 99.38
SAMPLE WEIGHT AFTER WASH (GRAMS): 95.18

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	0.59	0.59	99.41
5	-2.00	4.000	3.03	3.05	96.95
7	-1.50	2.800	5.16	5.19	94.81
10	-1.00	2.000	8.08	8.13	91.87
14	-0.50	1.400	11.74	11.81	88.19
18	0.00	1.000	14.78	14.87	85.13
25	0.50	0.710	17.83	17.94	82.06
35	1.00	0.500	20.74	20.87	79.13
45	1.50	0.355	23.23	23.37	76.63
60	2.00	0.250	25.05	25.21	74.79
80	2.50	0.180	34.68	34.90	65.10
120	3.00	0.125	68.32	68.75	31.25
170	3.50	0.090	92.80	93.38	6.62
200	3.75	0.075	94.79	95.38	4.62
230	4.00	0.063	97.19	97.80	2.20
PAN			99.37	99.99	0.01

PHI (5): -1.54 PHI (16): 0.18 PHI (25): 1.94
PHI (50): 2.72 PHI (75): 3.13 PHI (84): 3.31
PHI (95): 3.70

SIEVE LOSS (g): 0.01 SILT/CLAY: 4.62%
SKEWNESS: -1.052 KURTOSIS: 1.817

GRAPHIC METHOD

MEAN (PHI): 1.67 SORTING: 1.56
MEAN (mm): 0.31 MEDIAN (mm): 0.15
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.06 SORTING: 1.63
MEAN (mm): 0.24

DATA FILE NAME: EI-00-08#2.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-08#3

SAMPLE ELEV. (FT. NGVD): 2.8

SAMPLE DEPTH (FT.): 2.8

SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 99.14

SAMPLE WEIGHT AFTER WASH (GRAMS): 93.29

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	1.94	1.96	98.04
5	-2.00	4.000	3.94	3.97	96.03
7	-1.50	2.800	5.18	5.22	94.78
10	-1.00	2.000	6.53	6.59	93.41
14	-0.50	1.400	7.93	8.00	92.00
18	0.00	1.000	8.80	8.88	91.12
25	0.50	0.710	9.76	9.84	90.16
35	1.00	0.500	10.37	10.46	89.54
45	1.50	0.355	10.87	10.96	89.04
60	2.00	0.250	11.66	11.76	88.24
80	2.50	0.180	13.45	13.57	86.43
120	3.00	0.125	43.63	44.01	55.99
170	3.50	0.090	86.94	87.69	12.31
200	3.75	0.075	86.99	87.74	12.26
230	4.00	0.063	96.01	96.85	3.15
PAN			99.13	99.99	0.01

PHI (5): -1.59

PHI (16): 2.54

PHI (25): 2.69

PHI (50): 3.07

PHI (75): 3.35

PHI (84): 3.46

PHI (95): 3.95

SIEVE LOSS(g): 0.01

SILT/CLAY: 12.26%

SKEWNESS: -4.116

KURTOSIS: 3.404

GRAPHIC METHOD

MEAN (PHI): 2.29

SORTING: 0.46

MEAN (mm): 0.21

MEDIAN (mm): 0.12

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.59

SORTING: 1.56

MEAN (mm): 0.17

DATA FILE NAME: EI-00-08#3.TAB

GRADATION ANALYSIS REPORT

ESTERO VC 2000

TESTED BY: ID ON: 9/00

SAMPLE NO.: EI-00-08#4
SAMPLE ELEV. (FT. NGVD): 6.0
SAMPLE DEPTH (FT.): 6.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 94.18
SAMPLE WEIGHT AFTER WASH (GRAMS): 86.68

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	5.83	6.19	93.81
5	-2.00	4.000	14.47	15.36	84.64
7	-1.50	2.800	20.08	21.32	78.68
10	-1.00	2.000	23.60	25.06	74.94
14	-0.50	1.400	26.56	28.20	71.80
18	0.00	1.000	28.21	29.95	70.05
25	0.50	0.710	29.15	30.95	69.05
35	1.00	0.500	29.75	31.59	68.41
45	1.50	0.355	30.09	31.95	68.05
60	2.00	0.250	30.26	32.13	67.87
80	2.50	0.180	31.55	33.50	66.50
120	3.00	0.125	41.51	44.08	55.92
170	3.50	0.090	75.92	80.61	19.39
200	3.75	0.075	84.77	90.01	9.99
230	4.00	0.063	90.12	95.69	4.31
PAN			94.11	99.93	0.07

PHI (5): -3.19 PHI (16): -1.95 PHI (25): -1.01
PHI (50): 3.08 PHI (75): 3.42 PHI (84): 3.59
PHI (95): 3.97

SIEVE LOSS (g): 0.07 SILT/CLAY: 9.99%
SKEWNESS: -0.973 KURTOSIS: 0.662

GRAPHIC METHOD

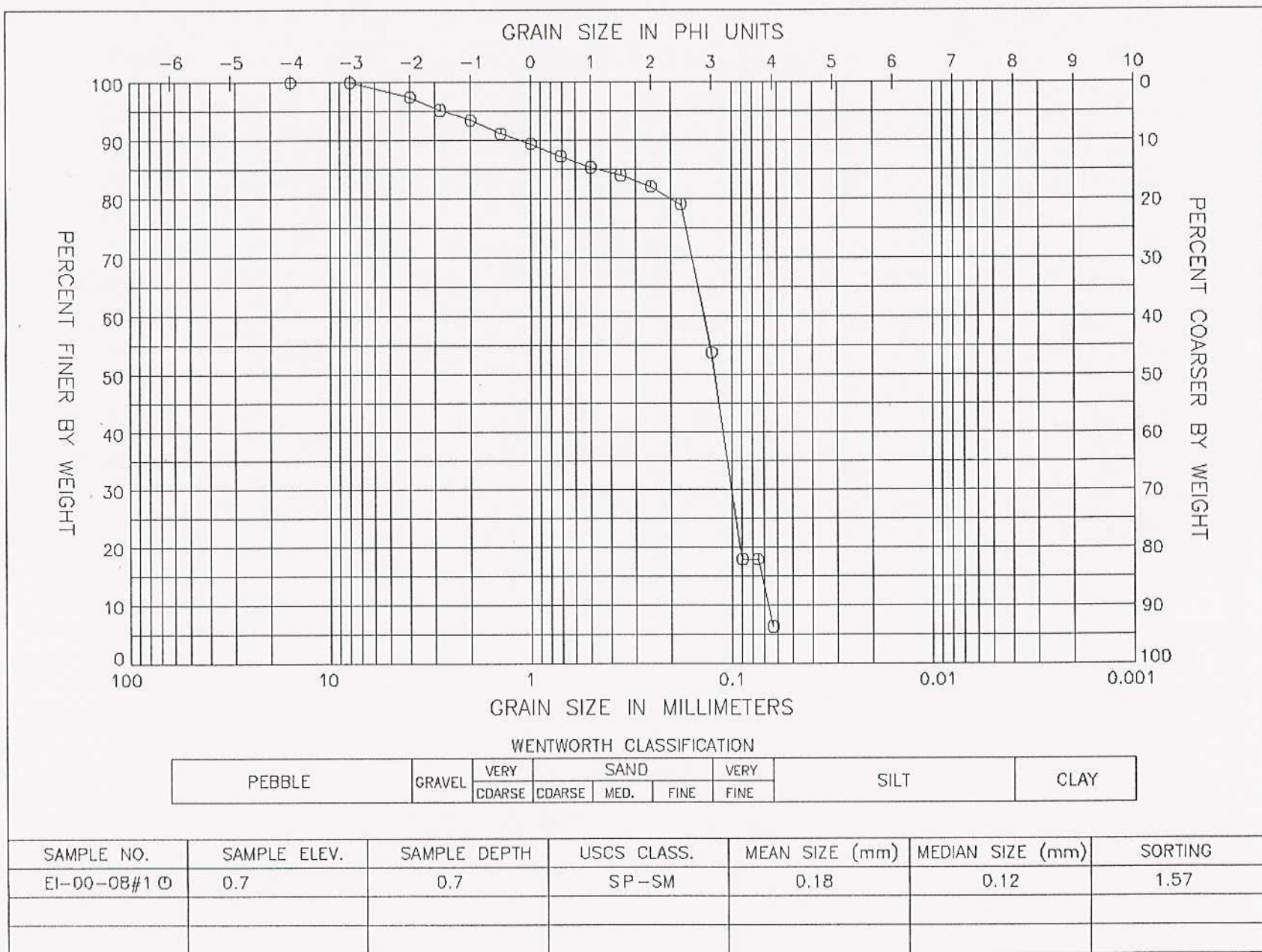
MEAN (PHI): 1.10 SORTING: 2.77
MEAN (mm): 0.47 MEDIAN (mm): 0.12
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

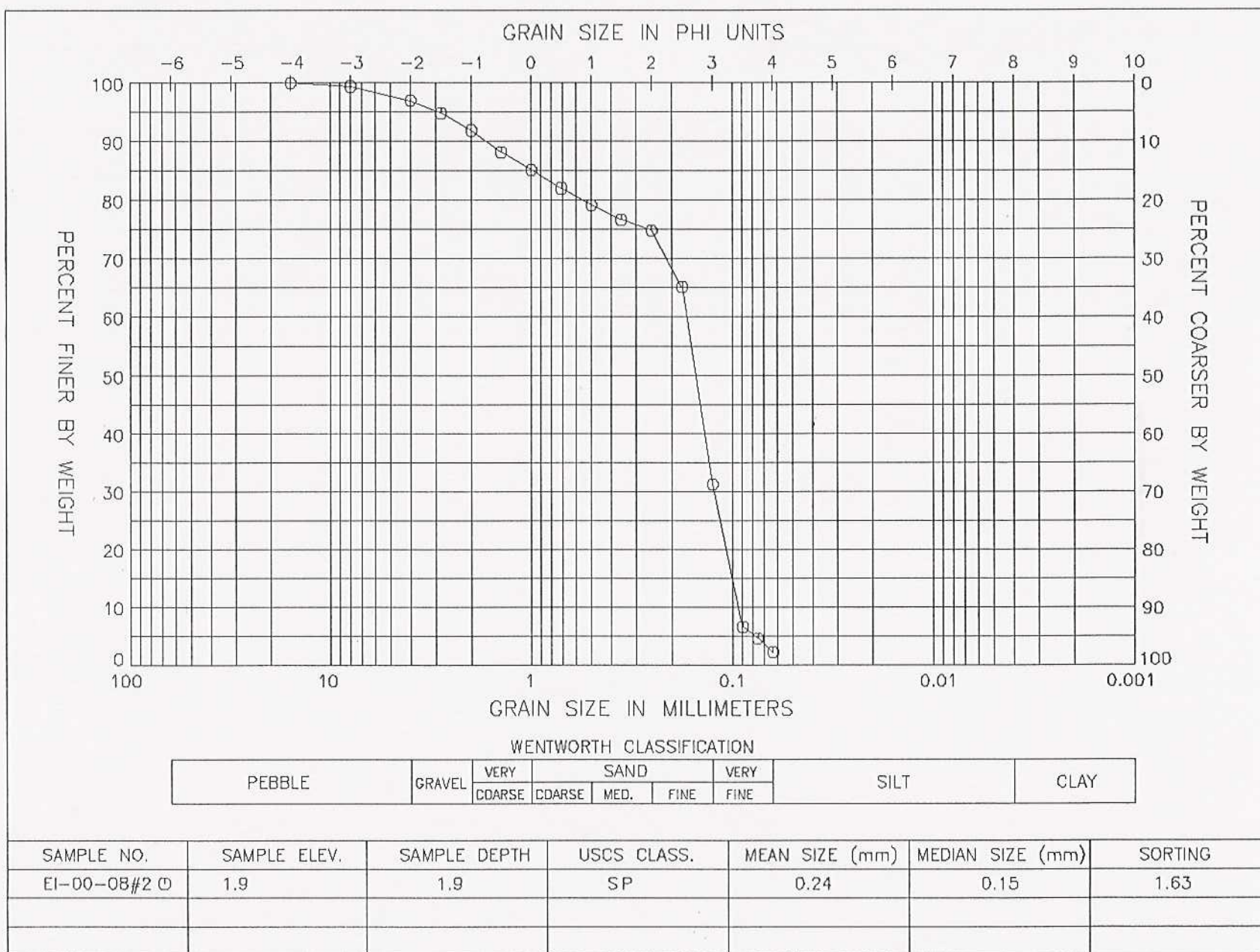
MEAN (PHI): 1.53 SORTING: 2.54
MEAN (mm): 0.35

DATA FILE NAME: EI-00-08#4.TAB

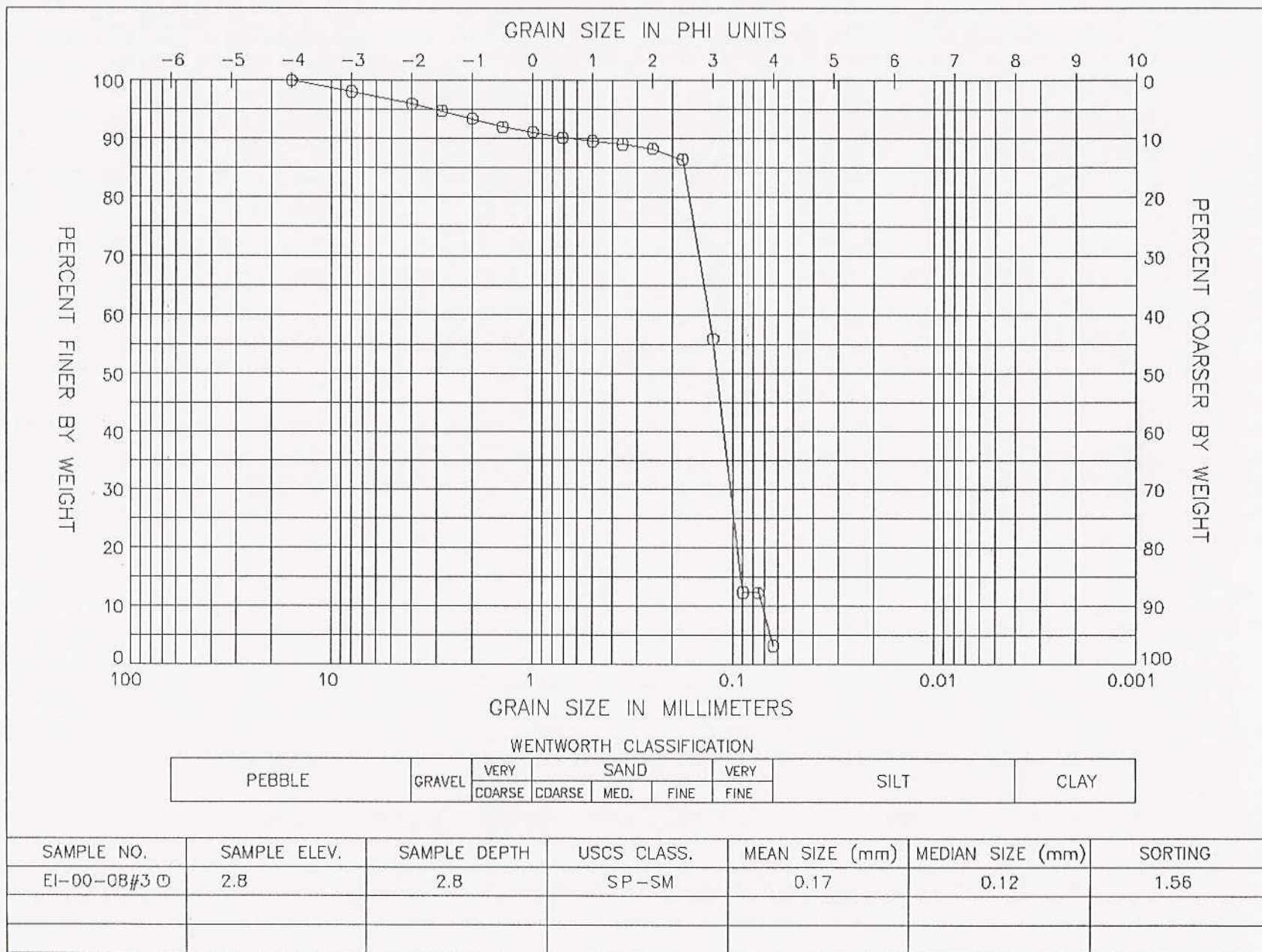
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