

DRILLING LOG		DIVISION: South Atlantic	INSTALLATION: Jacksonville District	SHEET 1 of 1
1. PROJECT		DELRAY BEACH		
2. LOCATION		(Coordinates or Station) X= 967757 Y= 778104		
3. DRILLING AGENCY:		ALPINE SEISMIC		
4. HOLE NO.		(As shown on drawing title and file number) DB-99-17		
5. NAME OF DRILLER		ROB SUSKO		
6. DIRECTION OF HOLE		VERTICAL		
7. THICKNESS OF BURDEN		0.0 FT		
8. DEPTH DRILLED INTO ROCK		0.0 FT		
9. TOTAL DEPTH OF HOLE		18.7' FT		
10. SIZE AND TYPE OF BIT		3"		
11. DATUM FOR ELEVATION SHOWN		(TBM or MSL) NGVD		
12. MANUFACTURER'S DESIGNATION OF DRILL		ALPINE PNEUMATIC		
13. TOT NO. OF OVERBURDEN SAMPLES TAKEN		disturbed: 0.0 undisturbed: 0.0		
14. TOTAL NO. OF CORE BOXES		1		
15. ELEVATION GROUND WATER				
16. DATE HOLE		Started Completed 4/20/99 4/20/99		
17. ELEVATION TOP OF HOLE		-48.0 ft.		
18. TOTAL CORE RECOVERY FOR BORING		96%		
19. SIGNATURE OF GEOLOGIST		IBRAHIM DREMLI		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-48	0					SP
	1				1	Sample #1, Depth = 2.0' 0.16 mm, 0.47 phi sorting 1.37% silt
	2					
	3					
	4					
	5					
	6				2	Sample #2, Depth = 7.0' 0.18 mm, 0.85 phi sorting 1.73% silt
	7		SAND, fine grained, trace shell hash, Light Gray (5Y-7/1) (SP)			
	8					
	9					
	10				3	Sample #3, Depth = 11.0' 0.16 mm, 0.76 phi sorting 1.54% silt
	11					
	12					
	13					
	14					
-62.8	15					
	16				4	Sample #4, Depth = 16.0' 0.19 mm, 0.67 phi sorting 1.82% silt
	17		fine-grained, trace shell hash, Light Gray (5Y-7/1) (SP) from -62.8' to -66.7'			
	18					
-66.7	19		End of Boring			
	20					
	21					
	22					
	23					
	24					Note: Soils are classified in accordance with the Unified Soils Classification System.

PROJECT: Delray Beach

HOLE NUMBER:

GRADATION ANALYSIS REPORT
DELRAY BEACH VIBRACORES 1999
TESTED BY: RW ON: 8/99

SAMPLE NO.: DB99-17 S#1
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 2.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 155.88
SAMPLE WEIGHT AFTER WASH (GRAMS): 153.85

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	0.04	0.03	99.97
10	-1.00	2.000	0.14	0.09	99.91
14	-0.50	1.400	0.27	0.17	99.83
18	0.00	1.000	0.37	0.24	99.76
25	0.50	0.710	0.65	0.42	99.58
35	1.00	0.500	1.35	0.87	99.13
45	1.50	0.355	3.28	2.10	97.90
60	2.00	0.250	12.26	7.87	92.13
80	2.50	0.180	44.67	28.66	71.34
120	3.00	0.125	135.62	87.00	13.00
170	3.50	0.090	153.55	98.51	1.49
200	3.75	0.075	153.75	98.63	1.37
230	4.00	0.063	154.82	99.32	0.68
PAN			155.88	100.00	0.00

PHI(5): 1.75 PHI(16): 2.20 PHI(25): 2.41
PHI(50): 2.68 PHI(75): 2.90 PHI(84): 2.97
PHI(95): 3.35

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.37%
SKEWNESS: -0.343 KURTOSIS: 1.349

GRAPHIC METHOD

MEAN (PHI): 2.59 SORTING: 0.39
MEAN (mm): 0.17 MEDIAN (mm): 0.16
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.61 SORTING: 0.47
MEAN (mm): 0.16

DATA FILE NAME: DB99-17#1.TAB

GRADATION ANALYSIS REPORT
DELRAY BEACH VIBRACORES 1999
TESTED BY: ID ON: 8/99

SAMPLE NO.: DB99-17 S#2
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 7.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 191.99
SAMPLE WEIGHT AFTER WASH (GRAMS): 189.03

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	1.47	0.77	99.23
5	-2.00	4.000	1.72	0.90	99.10
7	-1.50	2.800	2.17	1.13	98.87
10	-1.00	2.000	2.86	1.49	98.51
14	-0.50	1.400	3.49	1.82	98.18
18	0.00	1.000	3.94	2.05	97.95
25	0.50	0.710	4.74	2.47	97.53
35	1.00	0.500	6.69	3.48	96.52
45	1.50	0.355	10.22	5.32	94.68
60	2.00	0.250	22.62	11.78	88.22
80	2.50	0.180	68.47	35.66	64.34
120	3.00	0.125	160.18	83.43	16.57
170	3.50	0.090	188.25	98.05	1.95
200	3.75	0.075	188.66	98.27	1.73
230	4.00	0.063	190.25	99.09	0.91
PAN			191.99	100.00	0.00

PHI(5): 1.41	PHI(16): 2.09	PHI(25): 2.28
PHI(50): 2.65	PHI(75): 2.91	PHI(84): 3.02
PHI(95): 3.40		

SIEVE LOSS(g): 0.00	SILT/CLAY: 1.73%
SKEWNESS: -0.529	KURTOSIS: 1.280

GRAPHIC METHOD

MEAN (PHI): 2.51	SORTING: 0.47
MEAN (mm): 0.18	MEDIAN (mm): 0.16
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD	

MOMENT METHOD

MEAN (PHI): 2.49	SORTING: 0.85
MEAN (mm): 0.18	

DATA FILE NAME: DB99-17#2.TAB

GRADATION ANALYSIS REPORT
DELRAY BEACH VIBRACORES 1999
TESTED BY: ID ON: 8/99

SAMPLE NO.: DB99-17 S#3
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 11.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 164.69
SAMPLE WEIGHT AFTER WASH (GRAMS): 162.32

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	1.55	0.94	99.06
5	-2.00	4.000	1.59	0.97	99.03
7	-1.50	2.800	1.62	0.98	99.02
10	-1.00	2.000	1.71	1.04	98.96
14	-0.50	1.400	1.90	1.15	98.85
18	0.00	1.000	2.08	1.26	98.74
25	0.50	0.710	2.34	1.42	98.58
35	1.00	0.500	3.08	1.87	98.13
45	1.50	0.355	5.08	3.08	96.92
60	2.00	0.250	12.70	7.71	92.29
80	2.50	0.180	33.88	20.57	79.43
120	3.00	0.125	136.28	82.75	17.25
170	3.50	0.090	161.72	98.20	1.80
200	3.75	0.075	162.15	98.46	1.54
230	4.00	0.063	163.43	99.24	0.76
PAN			164.69	100.00	0.00

PHI(5): 1.71 PHI(16): 2.32 PHI(25): 2.54
PHI(50): 2.74 PHI(75): 2.94 PHI(84): 3.04
PHI(95): 3.40

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.54%
SKEWNESS: -0.515 KURTOSIS: 1.722

GRAPHIC METHOD

MEAN (PHI): 2.64 SORTING: 0.36
MEAN (mm) : 0.16 MEDIAN (mm): 0.15
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.63 SORTING: 0.76
MEAN (mm) : 0.16

DATA FILE NAME: DB99-17#3.TAB

GRADATION ANALYSIS REPORT
DELRAY BEACH VIBRACORES 1999
TESTED BY: RW ON: 8/99

SAMPLE NO.: DB99-17 S#4
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 16.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 185.27
SAMPLE WEIGHT AFTER WASH (GRAMS): 182.29

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	0.00	0.00	100.00
5	-2.00	4.000	0.15	0.08	99.92
7	-1.50	2.800	0.31	0.17	99.83
10	-1.00	2.000	0.83	0.45	99.55
14	-0.50	1.400	1.50	0.81	99.19
18	0.00	1.000	2.07	1.12	98.88
25	0.50	0.710	3.07	1.66	98.34
35	1.00	0.500	6.05	3.27	96.73
45	1.50	0.355	12.13	6.55	93.45
60	2.00	0.250	32.42	17.50	82.50
80	2.50	0.180	83.55	45.10	54.90
120	3.00	0.125	161.24	87.03	12.97
170	3.50	0.090	181.61	98.02	1.98
200	3.75	0.075	181.89	98.18	1.82
230	4.00	0.063	183.46	99.02	0.98
PAN			185.26	99.99	0.01

PHI(5): 1.26 PHI(16): 1.93 PHI(25): 2.14
PHI(50): 2.56 PHI(75): 2.86 PHI(84): 2.96
PHI(95): 3.36

SIEVE LOSS(g): 0.01 SILT/CLAY: 1.82%
SKEWNESS: -0.475 KURTOSIS: 1.193

GRAPHIC METHOD

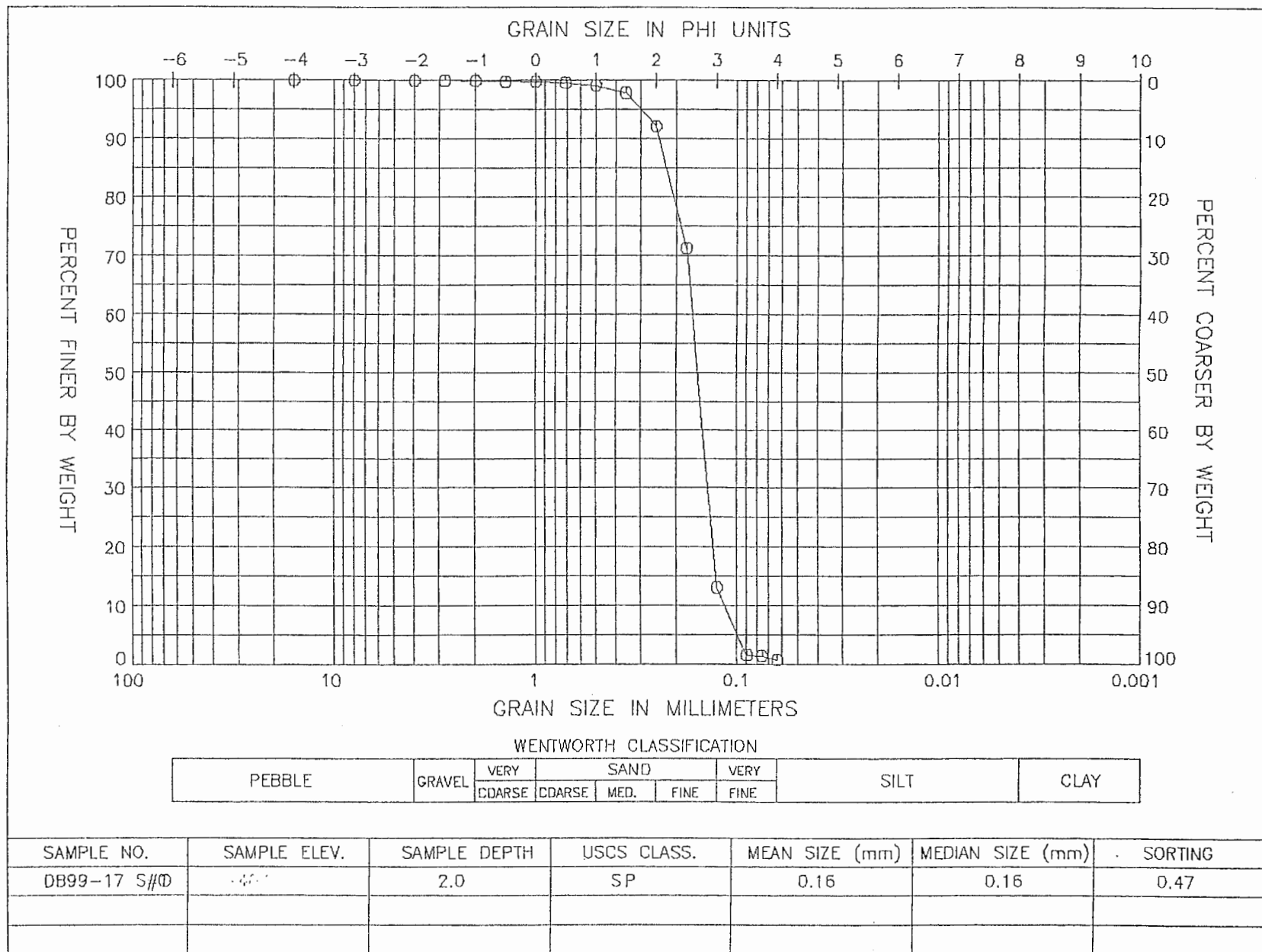
MEAN (PHI): 2.42 SORTING: 0.52
MEAN (mm): 0.19 MEDIAN (mm): 0.17
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

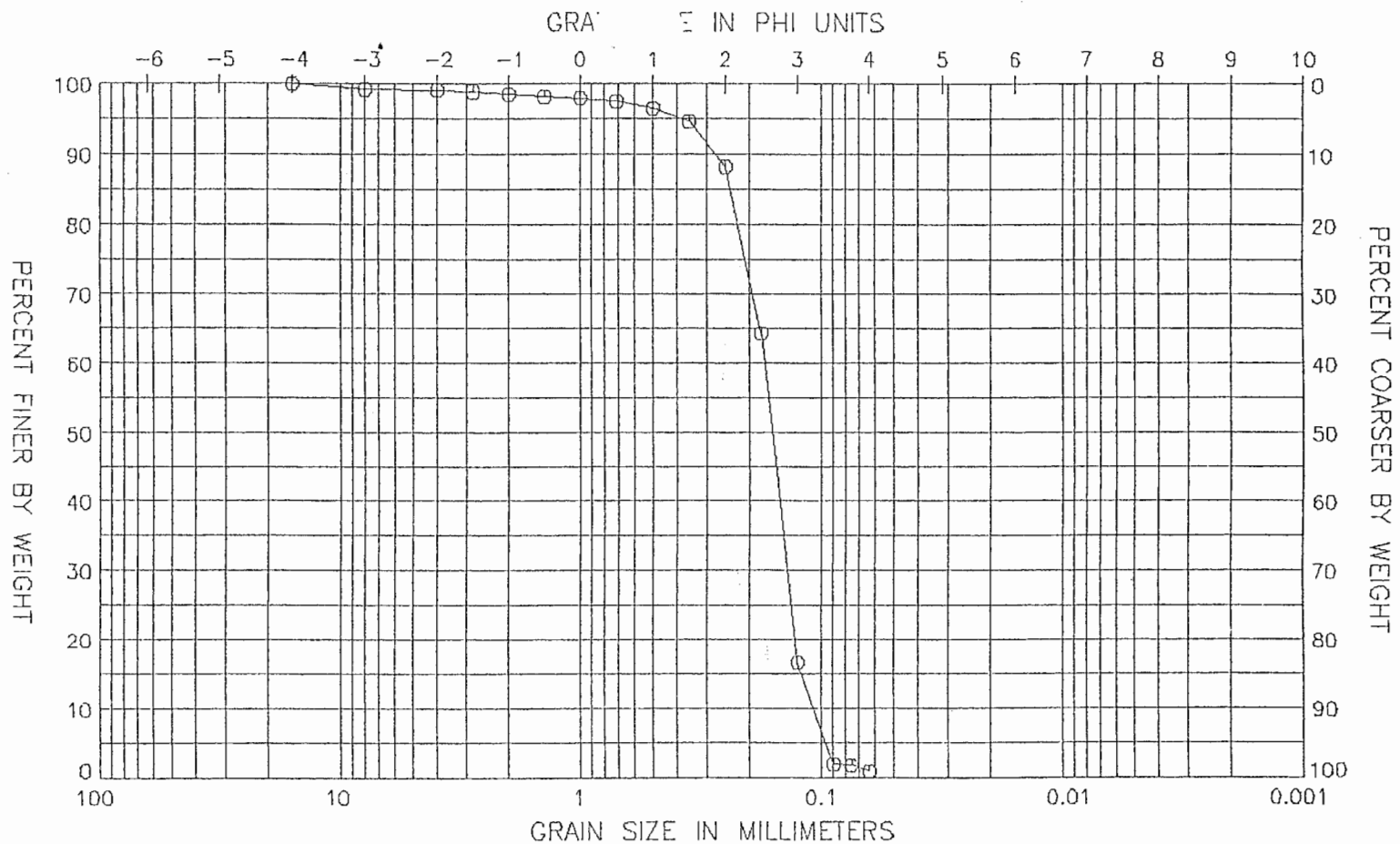
MEAN (PHI): 2.43 SORTING: 0.67
MEAN (mm): 0.19

DATA FILE NAME: DB99-17#4.TAB

GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



GRAIN SIZE DISTRIBUTION CURVE DELRAY BEACH VIBRACORES 1999

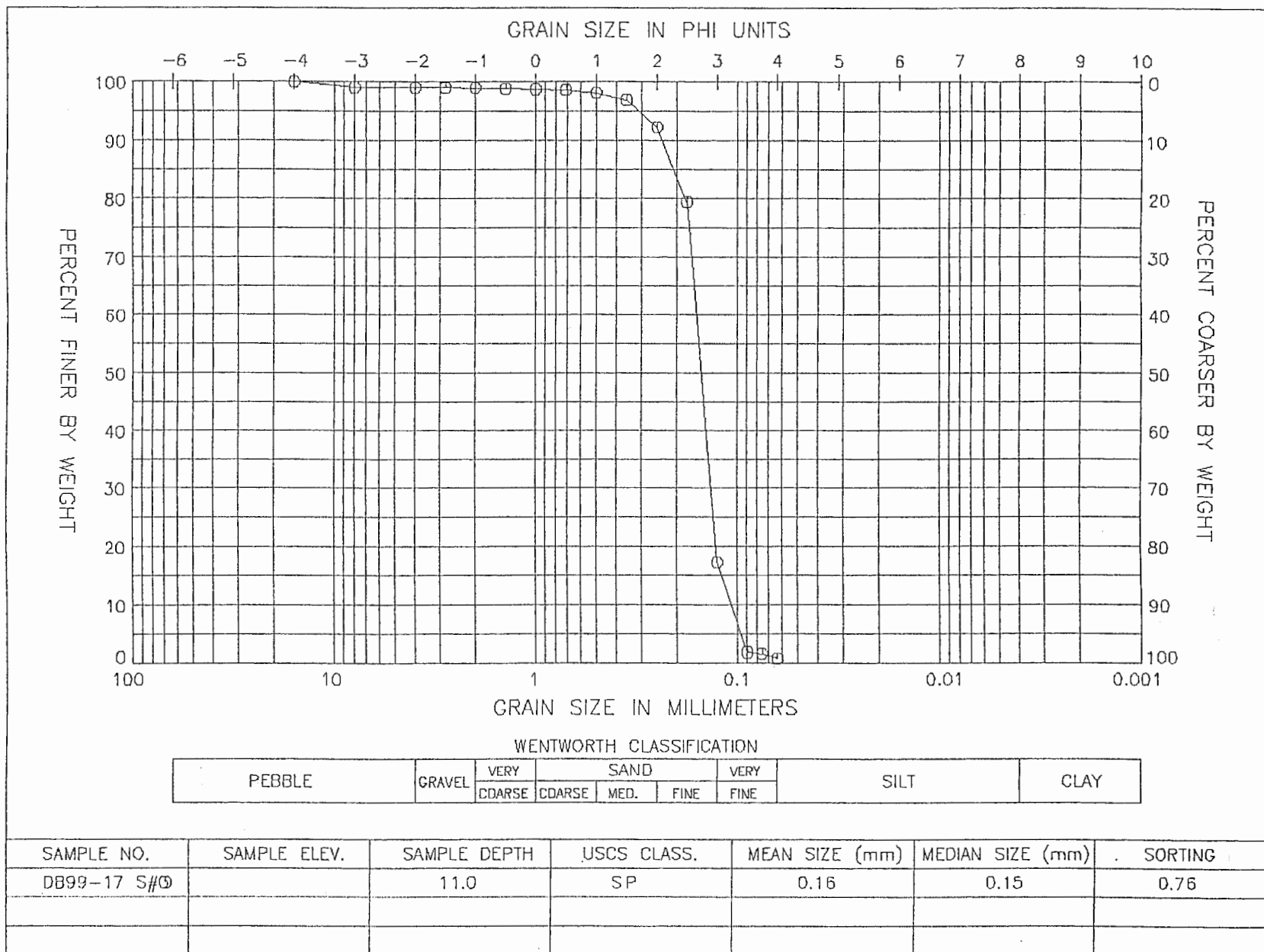


WENTWORTH CLASSIFICATION

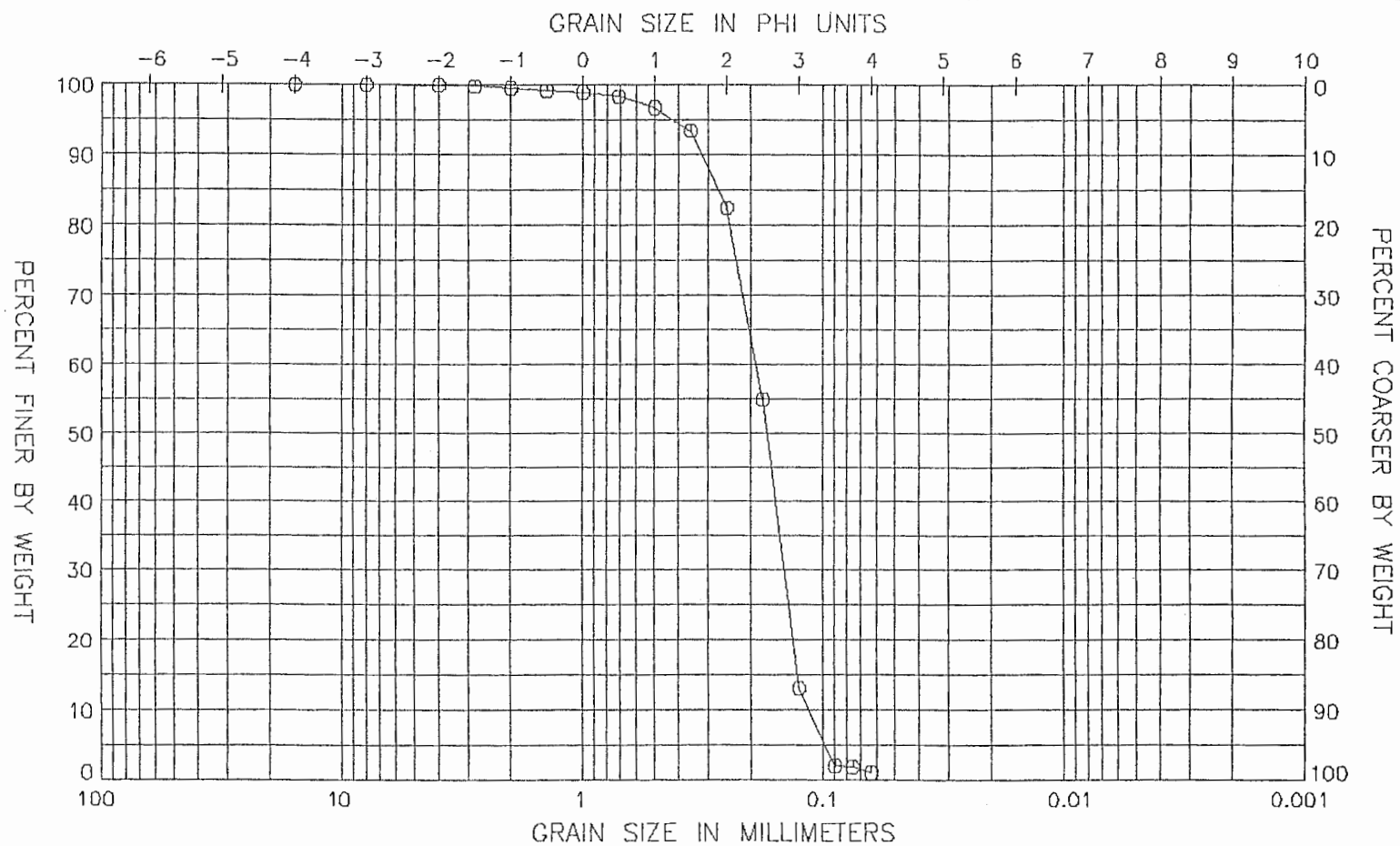
PEBBLE	GRAVEL	VERY	SAND			VERY	SILT	CLAY
		COARSE	COARSE	MED.	FINE	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
DB99-17 S#0		7.0	SP	0.18	0.16	0.85

GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



WENTWORTH CLASSIFICATION						
PEBBLE	GRAVEL	VERY	SAND			SILT
		COARSE	COARSE	MED.	FINE	

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
DB99-17 S#0		16.0	SP	0.19	0.17	0.67