

DRILLING LOG		DIVISION: South Atlantic	INSTALLATION: Jacksonville District	SHEET 1 of 1
1. PROJECT		DELRAY BEACH		
2. LOCATION		(Coordinates or Station) X= 966907 Y= 768362		
3. DRILLING AGENCY:		ALPINE SEISMIC		
4. HOLE NO.		(As shown on drawing title and file number) DB-99-25		
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		18.6' 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		-63.0 ft.		
18. TOTAL CORE RECOVERY FOR BORING		95%		
19. SIGNATURE OF GEOLOGIST		IBRAHIM DREMLI		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-63	0					SP
-65.2	2		3.5" coral fragment		1	Sample #1, Depth = 4.0' 0.17 mm, 0.83 phi sorting 1.96% silt
-65.8	3					
	4					
	5					
	6					
	7					
	8					
	9				2	Sample #2, Depth = 9.0' 0.18 mm, 0.85 phi sorting 2.62% silt
	10		SAND, fine grained, trace shell hash, Gray (5Y-6/1) (SP)			
	11					
	12					
	13					
	14					
	15				3	Sample #3, Depth = 15.0' 0.18 mm, 0.75 phi sorting 2.25% silt
	16					
	17					
-81.6	18					
	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.: DB99-25 #1
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 4.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 99.43
SAMPLE WEIGHT AFTER WASH (GRAMS): 97.64

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	0.82	0.82	99.18
7	-1.50	2.800	1.13	1.14	98.86
10	-1.00	2.000	1.55	1.56	98.44
14	-0.50	1.400	1.92	1.93	98.07
18	0.00	1.000	2.29	2.30	97.70
25	0.50	0.710	2.90	2.92	97.08
35	1.00	0.500	3.80	3.82	96.18
45	1.50	0.355	5.23	5.26	94.74
60	2.00	0.250	10.53	10.59	89.41
80	2.50	0.180	29.06	29.23	70.77
120	3.00	0.125	76.03	76.47	23.53
170	3.50	0.090	97.14	97.70	2.30
200	3.75	0.075	97.48	98.04	1.96
230	4.00	0.063	98.45	99.01	0.99
PAN			99.41	99.98	0.02

PHI(5): 1.41 PHI(16): 2.15 PHI(25): 2.39
PHI(50): 2.72 PHI(75): 2.98 PHI(84): 3.18
PHI(95): 3.44

SIEVE LOSS(g): 0.02 SILT/CLAY: 1.96%
SKEWNESS: -0.575 KURTOSIS: 1.389

GRAPHIC METHOD

MEAN (PHI): 2.58 SORTING: 0.52
MEAN (mm) : 0.17 MEDIAN (mm): 0.15
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.57 SORTING: 0.83
MEAN (mm) : 0.17

DATA FILE NAME: DB99-25#1.TAB

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

SAMPLE NO.: DB99-25 #2
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 9.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 95.09
SAMPLE WEIGHT AFTER WASH (GRAMS): 92.92

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	0.08	0.08	99.92
5	-2.00	4.000	0.14	0.15	99.85
7	-1.50	2.800	0.45	0.47	99.53
10	-1.00	2.000	0.90	0.95	99.05
14	-0.50	1.400	1.74	1.83	98.17
18	0.00	1.000	2.91	3.06	96.94
25	0.50	0.710	4.15	4.36	95.64
35	1.00	0.500	5.91	6.22	93.78
45	1.50	0.355	8.49	8.93	91.07
60	2.00	0.250	14.78	15.54	84.46
80	2.50	0.180	33.43	35.16	64.84
120	3.00	0.125	77.14	81.12	18.88
170	3.50	0.090	92.23	96.99	3.01
200	3.75	0.075	92.60	97.38	2.62
230	4.00	0.063	93.82	98.67	1.33
PAN			95.07	99.98	0.02

PHI(5): 0.67 PHI(16): 2.01 PHI(25): 2.24
PHI(50): 2.66 PHI(75): 2.93 PHI(84): 3.09
PHI(95): 3.44

SIEVE LOSS(g): 0.02 SILT/CLAY: 2.62%
SKEWNESS: -1.125 KURTOSIS: 1.637

GRAPHIC METHOD

MEAN (PHI): 2.37 SORTING: 0.54
MEAN (mm): 0.19 MEDIAN (mm): 0.16

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.46 SORTING: 0.85
MEAN (mm): 0.18

DATA FILE NAME: DB99-25#2.TAB

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

SAMPLE NO.: DB99-25 #3
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 15.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 92.33
SAMPLE WEIGHT AFTER WASH (GRAMS): 90.50

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	0.28	0.30	99.70
7	-1.50	2.800	0.42	0.45	99.55
10	-1.00	2.000	0.56	0.61	99.39
14	-0.50	1.400	0.76	0.82	99.18
18	0.00	1.000	1.18	1.28	98.72
25	0.50	0.710	2.15	2.33	97.67
35	1.00	0.500	3.87	4.19	95.81
45	1.50	0.355	6.42	6.95	93.05
60	2.00	0.250	15.44	16.72	83.28
80	2.50	0.180	35.71	38.68	61.32
120	3.00	0.125	74.03	80.18	19.82
170	3.50	0.090	89.79	97.25	2.75
200	3.75	0.075	90.25	97.75	2.25
230	4.00	0.063	91.33	98.92	1.08
PAN			92.33	100.00	0.00

PHI(5): 1.15 PHI(16): 1.96 PHI(25): 2.19
PHI(50): 2.64 PHI(75): 2.94 PHI(84): 3.11
PHI(95): 3.43

SIEVE LOSS(g): 0.00 SILT/CLAY: 2.25%
SKEWNESS: -0.603 KURTOSIS: 1.252

GRAPHIC METHOD

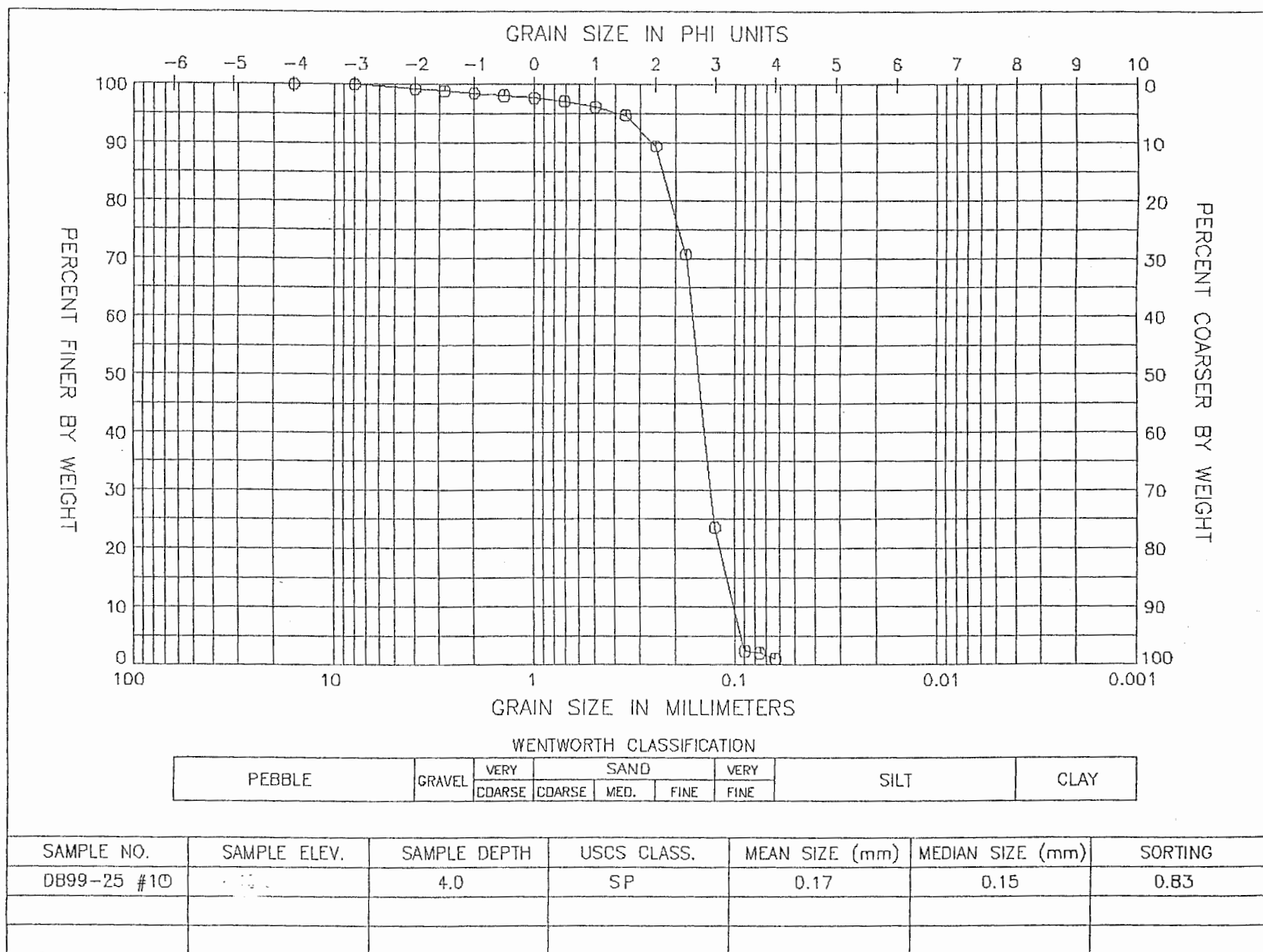
MEAN (PHI): 2.46 SORTING: 0.57
MEAN (mm): 0.18 MEDIAN (mm): 0.16
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.49 SORTING: 0.75
MEAN (mm): 0.18

DATA FILE NAME: DB99-25#3.TAB

GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



GRAIN SIZE IN PHI UNITS

PERCENT FINER BY WEIGHT

PERCENT COARSER BY WEIGHT

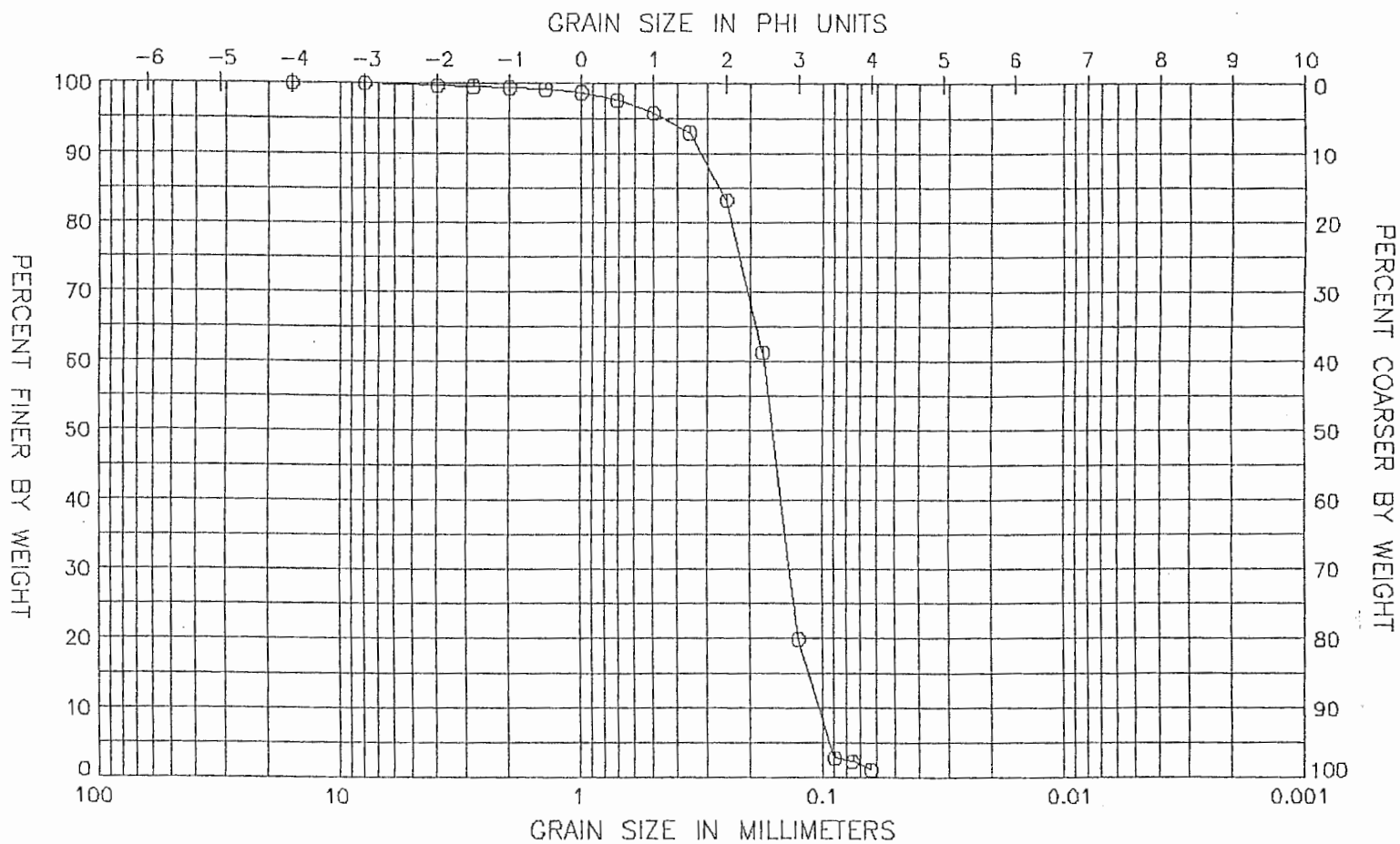
GRAIN SIZE IN MILLIMETERS

WENTWORTH CLASSIFICATION

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)		MEDIAN SIZE (mm)	SORTING
DB99-25 #20		9.0	SP	0.18	0.16	0.85	

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
DB99-25 #20		9.0	SP	0.18	0.16	0.85

GRAIN SIZE DISTRIBUTION CURVE
DELRAY BEACH VIBRACORES 1999



WENTWORTH CLASSIFICATION

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

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
DB99-25 #30		15.0	SP	0.18	0.16	0.75