

DRILLING LOG		DIVISION: South Atlantic	INSTALLATION: Jacksonville District	SHEET 1 of 1
1. PROJECT	DELRAY BEACH		10. SIZE AND TYPE OF BIT 3"	
2. LOCATION	(Coordinates or Station) X= 966549 Y= 769408		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) NGVD	
3. DRILLING AGENCY:	ALPINE SEISMIC		12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC	
4. HOLE NO. (As shown on drawing title and file number)	DB-99-24		13. TOT NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0.0 undisturbed: 0.0	
5. NAME OF DRILLER	ROB SUSKO		14. TOTAL NO. OF CORE BOXES 1	
6. DIRECTION OF HOLE	VERTICAL		15. ELEVATION GROUND WATER	
7. THICKNESS OF BURDEN	0.0 FT		16. DATE HOLE Started Completed 4/20/99 4/20/99	
8. DEPTH DRILLED INTO ROCK	0.0 FT		17. ELEVATION TOP OF HOLE -60.0 ft.	
9. TOTAL DEPTH OF HOLE	17.6' FT		18. TOTAL CORE RECOVERY FOR BORING 90%	
			19. SIGNATURE OF GEOLOGIST IBRAHIM DREMALI	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS	
-60	0					SP	
	1						
	2						
	3						
	4					1	Sample #1, Depth = 4.0' 0.21 mm, 0.68 phi sorting 1.27% silt
	5						
	6						
	7						
	8						
	9			SAND, fine-grained, trace shell hash, Gray (5Y-6/1) (SP)		2	Sample #2, Depth = 9.0' 0.24 mm, 0.94 phi sorting 1.90% silt
	10						
	11						
	12						
	13						
	14					3	Sample #3, Depth = 14.0' 0.21 mm, 0.68 phi sorting 1.62% silt
	15						
	16						
-77.6	17						
	18		End of Boring				
	19						
	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.: DB99-24 S#1
 SAMPLE ELEV. (FT. NGVD):
 SAMPLE DEPTH (FT.): 4.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 105.84
 SAMPLE WEIGHT AFTER WASH (GRAMS): 104.56

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	0.10	0.09	99.91
7	-1.50	2.800	0.28	0.26	99.74
10	-1.00	2.000	0.46	0.43	99.57
14	-0.50	1.400	0.78	0.74	99.26
18	0.00	1.000	1.25	1.18	98.82
25	0.50	0.710	2.05	1.94	98.06
35	1.00	0.500	4.46	4.21	95.79
45	1.50	0.355	10.42	9.85	90.15
60	2.00	0.250	27.21	25.71	74.29
80	2.50	0.180	61.34	57.96	42.04
120	3.00	0.125	98.35	92.92	7.08
170	3.50	0.090	104.40	98.64	1.36
200	3.75	0.075	104.50	98.73	1.27
230	4.00	0.063	105.17	99.37	0.63
PAN			105.84	100.00	0.00

PHI(5): 1.07 PHI(16): 1.69 PHI(25): 1.98
 PHI(50): 2.38 PHI(75): 2.74 PHI(84): 2.87
 PHI(95): 3.18

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.27%
 SKEWNESS: -0.426 KURTOSIS: 1.130

GRAPHIC METHOD

MEAN (PHI): 2.24 SORTING: 0.59
 MEAN (mm) : 0.21 MEDIAN (mm): 0.19
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.27 SORTING: 0.68
 MEAN (mm) : 0.21

DATA FILE NAME: DB99-24#1.TAB

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

SAMPLE NO.: DB99-24 S#2
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 9.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 98.39
SAMPLE WEIGHT AFTER WASH (GRAMS): 96.73

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	0.87	0.88	99.12
7	-1.50	2.800	1.51	1.53	98.47
10	-1.00	2.000	2.54	2.58	97.42
14	-0.50	1.400	3.43	3.49	96.51
18	0.00	1.000	3.98	4.05	95.95
25	0.50	0.710	4.72	4.80	95.20
35	1.00	0.500	6.06	6.16	93.84
45	1.50	0.355	8.73	8.87	91.13
60	2.00	0.250	19.92	20.25	79.75
80	2.50	0.180	48.92	49.72	50.28
120	3.00	0.125	87.62	89.05	10.95
170	3.50	0.090	96.33	97.91	2.09
200	3.75	0.075	96.52	98.10	1.90
230	4.00	0.063	97.48	99.08	0.92
PAN			98.37	99.98	0.02

PHI(5): 0.57 PHI(16): 1.81 PHI(25): 2.08
PHI(50): 2.50 PHI(75): 2.82 PHI(84): 2.94
PHI(95): 3.34

SIEVE LOSS(g): 0.02 SILT/CLAY: 1.90%
SKEWNESS: -0.977 KURTOSIS: 1.528

GRAPHIC METHOD

MEAN (PHI): 2.23 SORTING: 0.56
MEAN (mm) : 0.21 MEDIAN (mm): 0.18

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.29 SORTING: 0.94
MEAN (mm) : 0.20

DATA FILE NAME: DB99-24#2.TAB

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

SAMPLE NO.: DB99-24 S#3
 SAMPLE ELEV. (FT. NGVD):
 SAMPLE DEPTH (FT.): 14.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 102.29
 SAMPLE WEIGHT AFTER WASH (GRAMS): 100.68

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	0.00	0.00	100.00
5	-2.00	4.000	0.22	0.22	99.78
7	-1.50	2.800	0.23	0.22	99.78
10	-1.00	2.000	0.37	0.36	99.64
14	-0.50	1.400	0.66	0.65	99.35
18	0.00	1.000	1.08	1.06	98.94
25	0.50	0.710	2.05	2.00	98.00
35	1.00	0.500	4.34	4.24	95.76
45	1.50	0.355	9.22	9.01	90.99
60	2.00	0.250	27.29	26.68	73.32
80	2.50	0.180	62.95	61.54	38.46
120	3.00	0.125	95.04	92.91	7.09
170	3.50	0.090	100.47	98.22	1.78
200	3.75	0.075	100.63	98.38	1.62
230	4.00	0.063	101.47	99.19	0.81
PAN			102.28	99.99	0.01

PHI(5): 1.08 PHI(16): 1.70 PHI(25): 1.95
 PHI(50): 2.33 PHI(75): 2.71 PHI(84): 2.86
 PHI(95): 3.20

SIEVE LOSS(g): 0.01 SILT/CLAY: 1.62%
 SKEWNESS: -0.339 KURTOSIS: 1.139

GRAPHIC METHOD

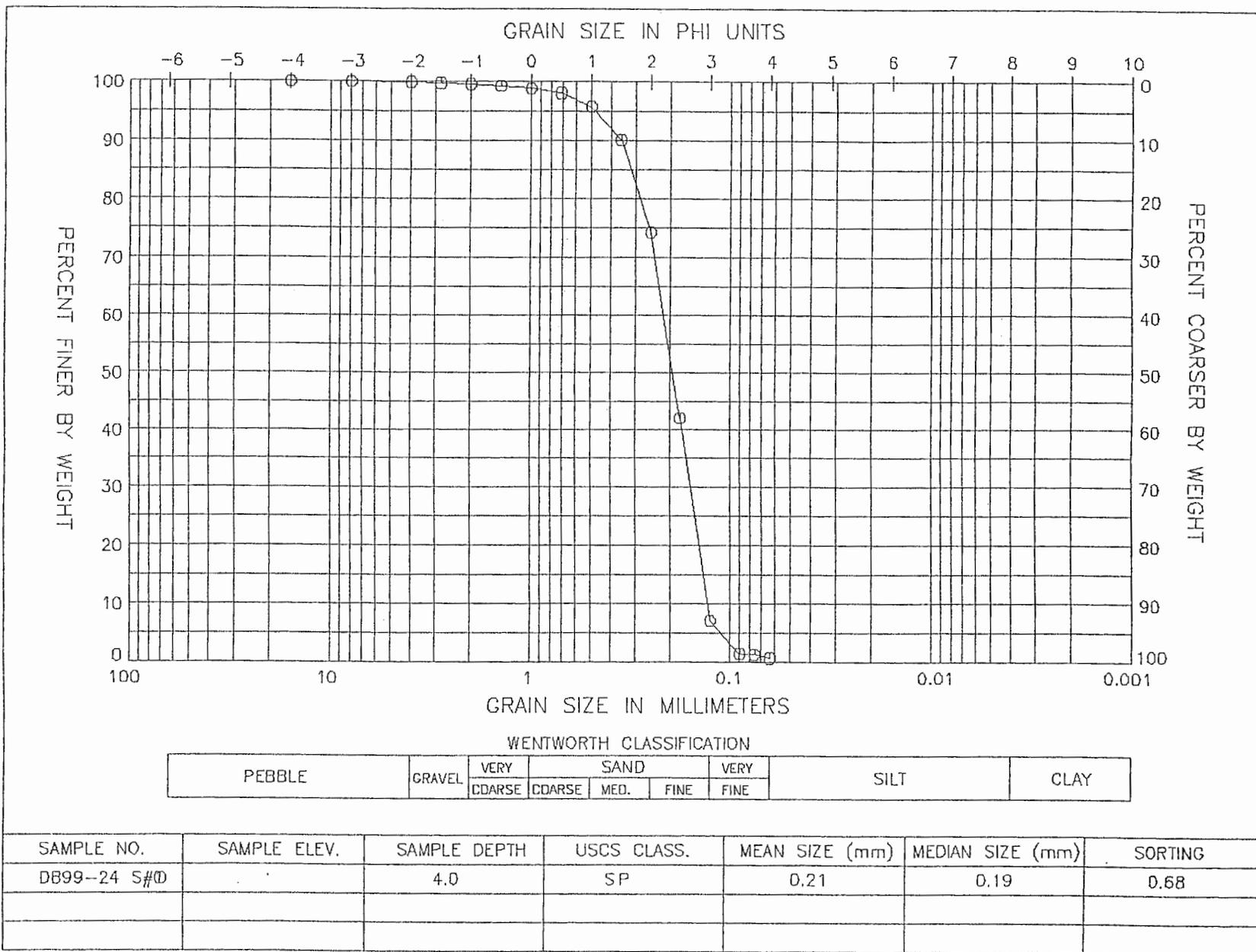
MEAN (PHI): 2.23 SORTING: 0.58
 MEAN (mm) : 0.21 MEDIAN (mm): 0.20
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

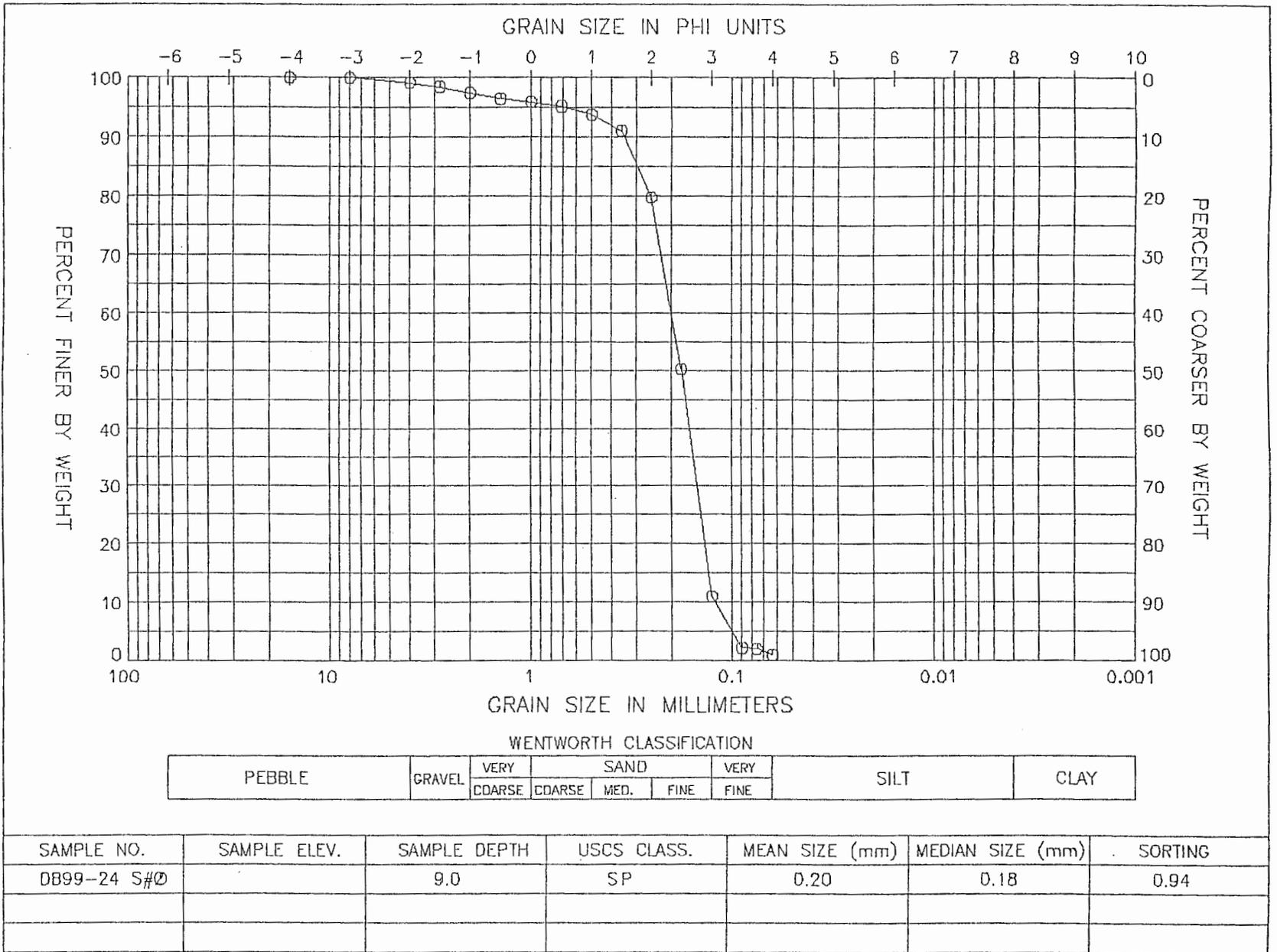
MEAN (PHI): 2.25 SORTING: 0.68
 MEAN (mm) : 0.21

DATA FILE NAME: DB99-24#3.TAB

GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999

