

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= 965706 Y= 764879		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-99-29		13. TOT NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0.0 undisturbed: 0.0
6. 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 -54.0 ft.
9. TOTAL DEPTH OF HOLE 17.1' FT				18. TOTAL CORE RECOVERY FOR BORING 99%
				19. SIGNATURE OF GEOLOGIST IBRAHIM DREMALI

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-54	0					SP
	1		SAND, fine-grained, trace shell hash, Gray (5Y-6/1) (SP)		1	Sample #1, Depth = 1.0' 0.19 mm, 0.70 phi sorting 1.43% silt
-56.9	3		medium-grained, trace shell hash, Gray (5Y-6/1) (SP) from -56.9' to -59.8'		2	Sample #2, Depth = 4.0' 0.42 mm, 0.77 phi sorting 1.41% silt
-59.8	6		fine-grained, trace shell hash, Gray (5Y-5/1) (SP) from -59.8' to 68.5'		3	Sample #3, Depth = 10.0' 0.21 mm, 0.69 phi sorting 1.60% silt
-68.5	14		fine-grained, little shell hash, Gray (5Y-6/1) (SP) from -68.5' to -71.1'		4	Sample #4, Depth = 16.0' 0.30 mm, 0.73 phi sorting 1.98% silt
-71.1	17		End of Boring			
	18					
	19					
	20					
	21					
	22					
	23					
	24					

Note: Soils are classified in accordance with the Unified Soils Classification System.

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

SAMPLE NO.: DB99-29#1
 SAMPLE ELEV. (FT. NGVD):
 SAMPLE DEPTH (FT.): 1.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 100.45
 SAMPLE WEIGHT AFTER WASH (GRAMS): 99.04

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	0.14	0.14	99.86
7	-1.50	2.800	0.38	0.38	99.62
10	-1.00	2.000	0.58	0.58	99.42
14	-0.50	1.400	1.07	1.07	98.93
18	0.00	1.000	1.68	1.67	98.33
25	0.50	0.710	2.55	2.54	97.46
35	1.00	0.500	4.41	4.39	95.61
45	1.50	0.355	7.29	7.26	92.74
60	2.00	0.250	15.92	15.85	84.15
80	2.50	0.180	45.96	45.75	54.25
120	3.00	0.125	90.81	90.40	9.60
170	3.50	0.090	98.90	98.46	1.54
200	3.75	0.075	99.01	98.57	1.43
230	4.00	0.063	99.71	99.27	0.73
PAN			100.42	99.97	0.03

PHI(5): 1.11 PHI(16): 2.00 PHI(25): 2.15
 PHI(50): 2.55 PHI(75): 2.83 PHI(84): 2.93
 PHI(95): 3.29

SIEVE LOSS(g): 0.03 SILT/CLAY: 1.43%
 SKEWNESS: -0.760 KURTOSIS: 1.324

GRAPHIC METHOD
 MEAN (PHI): 2.37 SORTING: 0.46
 MEAN (mm) : 0.19 MEDIAN (mm): 0.17
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD
 MEAN (PHI): 2.40 SORTING: 0.70
 MEAN (mm) : 0.19

DATA FILE NAME: DB99-29#1.TAB

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

SAMPLE NO.: DB99-29#2
 SAMPLE ELEV. (FT. NGVD):
 SAMPLE DEPTH (FT.): 4.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 104.79
 SAMPLE WEIGHT AFTER WASH (GRAMS): 103.33

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	0.14	99.86
7	-1.50	2.800	0.19	0.18	99.82
10	-1.00	2.000	0.62	0.59	99.41
14	-0.50	1.400	2.48	2.37	97.63
18	0.00	1.000	5.98	5.71	94.29
25	0.50	0.710	16.33	15.58	84.42
35	1.00	0.500	33.51	31.98	68.02
45	1.50	0.355	66.08	63.06	36.94
60	2.00	0.250	90.30	86.17	13.83
80	2.50	0.180	101.27	96.64	3.36
120	3.00	0.125	103.23	98.51	1.49
170	3.50	0.090	103.29	98.57	1.43
200	3.75	0.075	103.31	98.59	1.41
230	4.00	0.063	104.05	99.29	0.71
PAN			104.79	100.00	0.00

PHI(5): -0.11 PHI(16): 0.51 PHI(25): 0.79
 PHI(50): 1.29 PHI(75): 1.76 PHI(84): 1.95
 PHI(95): 2.42

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.41%
 SKEWNESS: -0.183 KURTOSIS: 1.067

GRAPHIC METHOD
 MEAN (PHI): 1.21 SORTING: 0.72
 MEAN (mm) : 0.43 MEDIAN (mm): 0.41
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD
 MEAN (PHI): 1.24 SORTING: 0.77
 MEAN (mm) : 0.42

DATA FILE NAME: DB99-29#2.TAB

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

SAMPLE NO.: DB99-29#3
 SAMPLE ELEV. (FT. NGVD):
 SAMPLE DEPTH (FT.): 10.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 103.89
 SAMPLE WEIGHT AFTER WASH (GRAMS): 102.35

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	0.18	0.17	99.83
10	-1.00	2.000	0.30	0.29	99.71
14	-0.50	1.400	0.49	0.47	99.53
18	0.00	1.000	2.02	1.94	98.06
25	0.50	0.710	2.53	2.44	97.56
35	1.00	0.500	4.93	4.75	95.25
45	1.50	0.355	11.81	11.37	88.63
60	2.00	0.250	30.01	28.89	71.11
80	2.50	0.180	63.25	60.88	39.12
120	3.00	0.125	98.14	94.47	5.53
170	3.50	0.090	102.14	98.32	1.68
200	3.75	0.075	102.23	98.40	1.60
230	4.00	0.063	103.05	99.19	0.81
PAN			103.87	99.98	0.02

PHI(5): 1.02 PHI(16): 1.63 PHI(25): 1.89
 PHI(50): 2.33 PHI(75): 2.71 PHI(84): 2.84
 PHI(95): 3.07

SIEVE LOSS(g): 0.02 SILT/CLAY: 1.60%
 SKEWNESS: -0.471 KURTOSIS: 1.023

GRAPHIC METHOD

MEAN (PHI): 2.18 SORTING: 0.61
 MEAN (mm) : 0.22 MEDIAN (mm): 0.20
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.22 SORTING: 0.69
 MEAN (mm) : 0.21

DATA FILE NAME: DB99-29#3.TAB

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

SAMPLE NO.: DB99-29#4
 SAMPLE ELEV. (FT. NGVD):
 SAMPLE DEPTH (FT.): 16.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 105.48
 SAMPLE WEIGHT AFTER WASH (GRAMS): 103.41

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	0.00	0.00	100.00
5	-2.00	4.000	0.14	0.13	99.87
7	-1.50	2.800	0.44	0.42	99.58
10	-1.00	2.000	0.94	0.89	99.11
14	-0.50	1.400	1.76	1.67	98.33
18	0.00	1.000	1.78	1.69	98.31
25	0.50	0.710	6.29	5.96	94.04
35	1.00	0.500	13.87	13.15	86.85
45	1.50	0.355	28.68	27.19	72.81
60	2.00	0.250	56.96	54.00	46.00
80	2.50	0.180	101.69	96.41	3.59
120	3.00	0.125	103.29	97.92	2.08
170	3.50	0.090	103.37	98.00	2.00
200	3.75	0.075	103.39	98.02	1.98
230	4.00	0.063	104.43	99.01	0.99
PAN			105.48	100.00	0.00

PHI (5): 0.39 PHI (16): 1.10 PHI (25): 1.42
 PHI (50): 1.93 PHI (75): 2.25 PHI (84): 2.35
 PHI (95): 2.48

SIEVE LOSS (g): 0.00 SILT/CLAY: 1.98%
 SKEWNESS: -0.783 KURTOSIS: 1.041

GRAPHIC METHOD

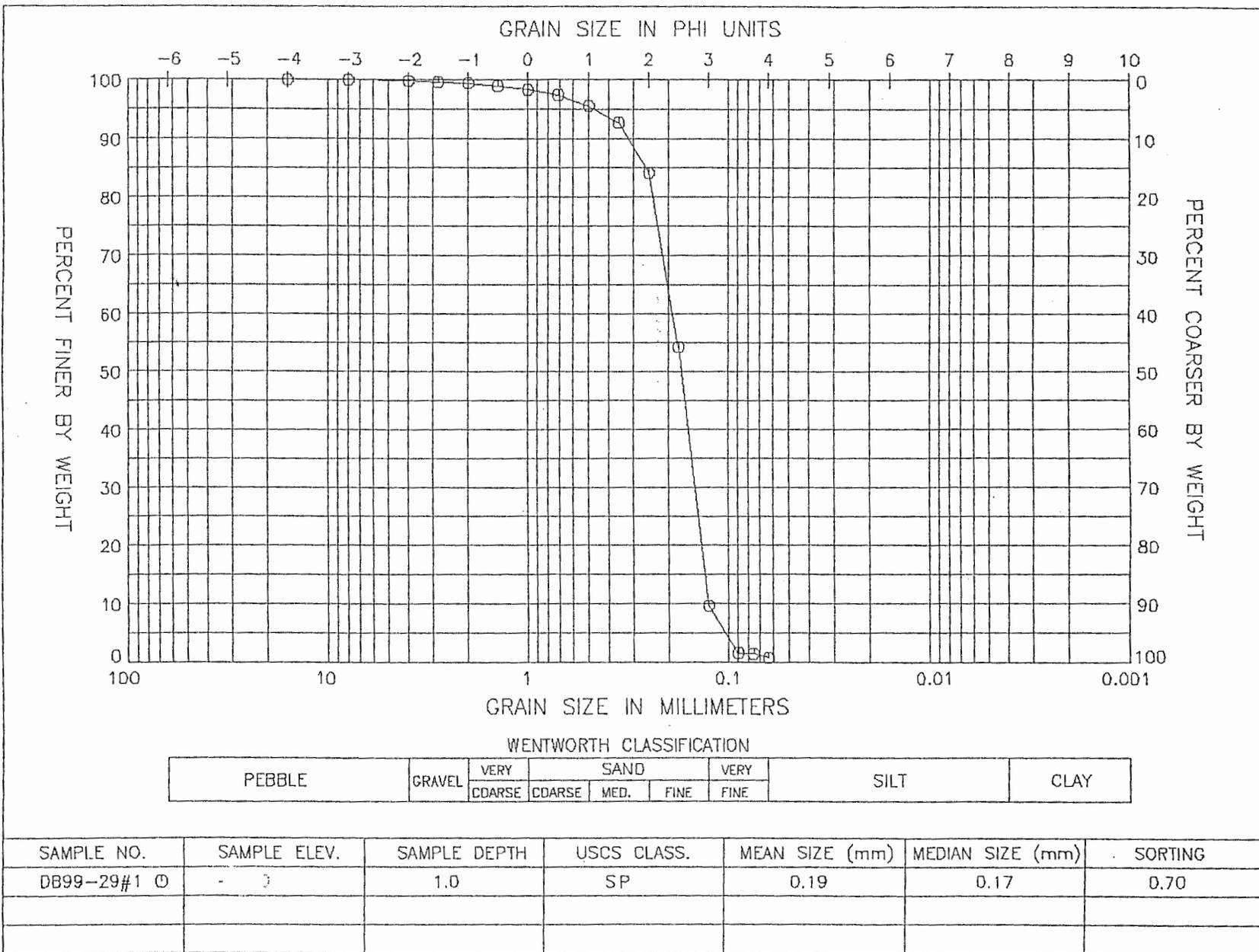
MEAN (PHI): 1.65 SORTING: 0.63
 MEAN (mm) : 0.32 MEDIAN (mm): 0.26
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

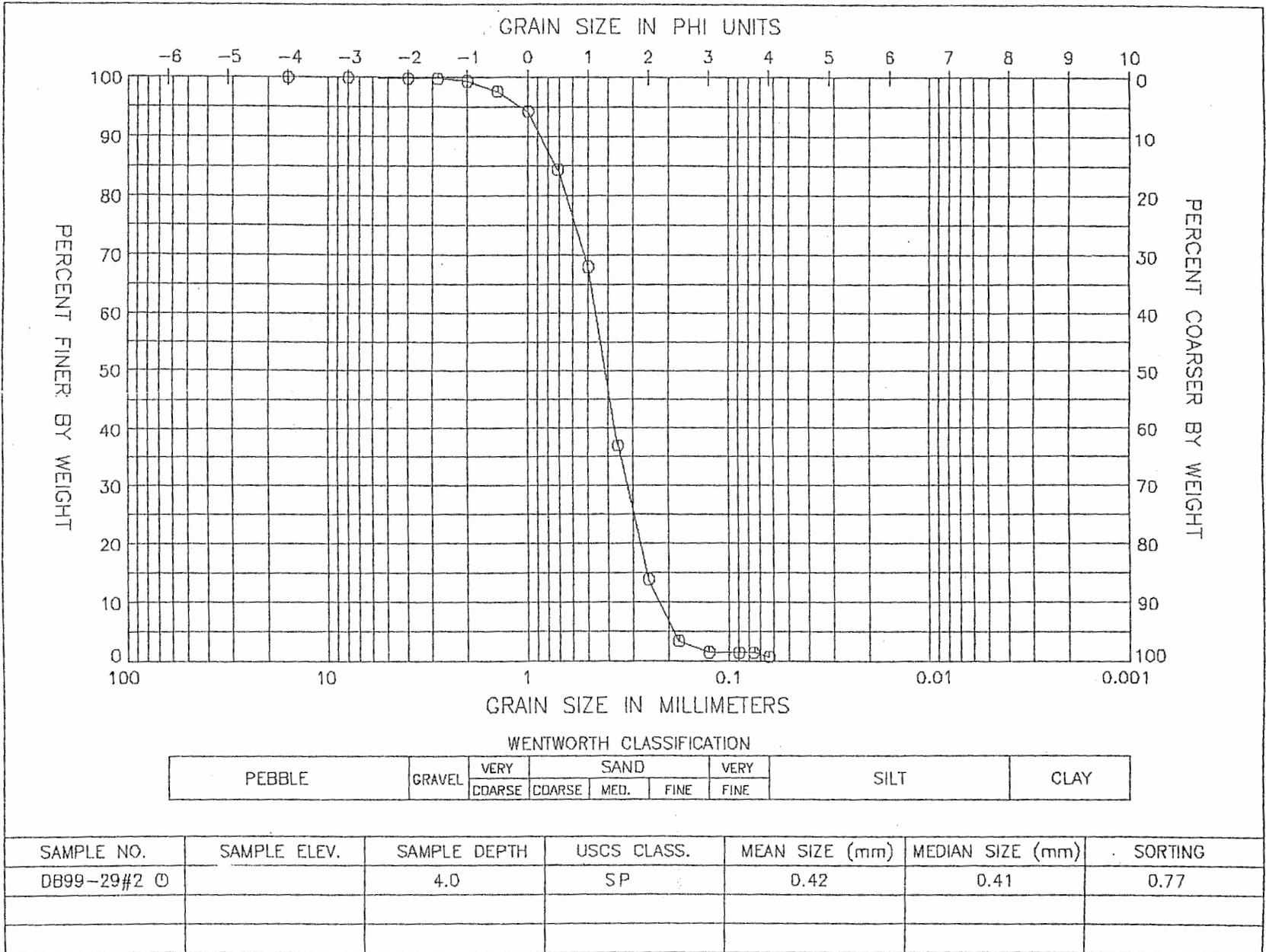
MEAN (PHI): 1.74 SORTING: 0.73
 MEAN (mm) : 0.30

DATA FILE NAME: DB99-29#4.TAB

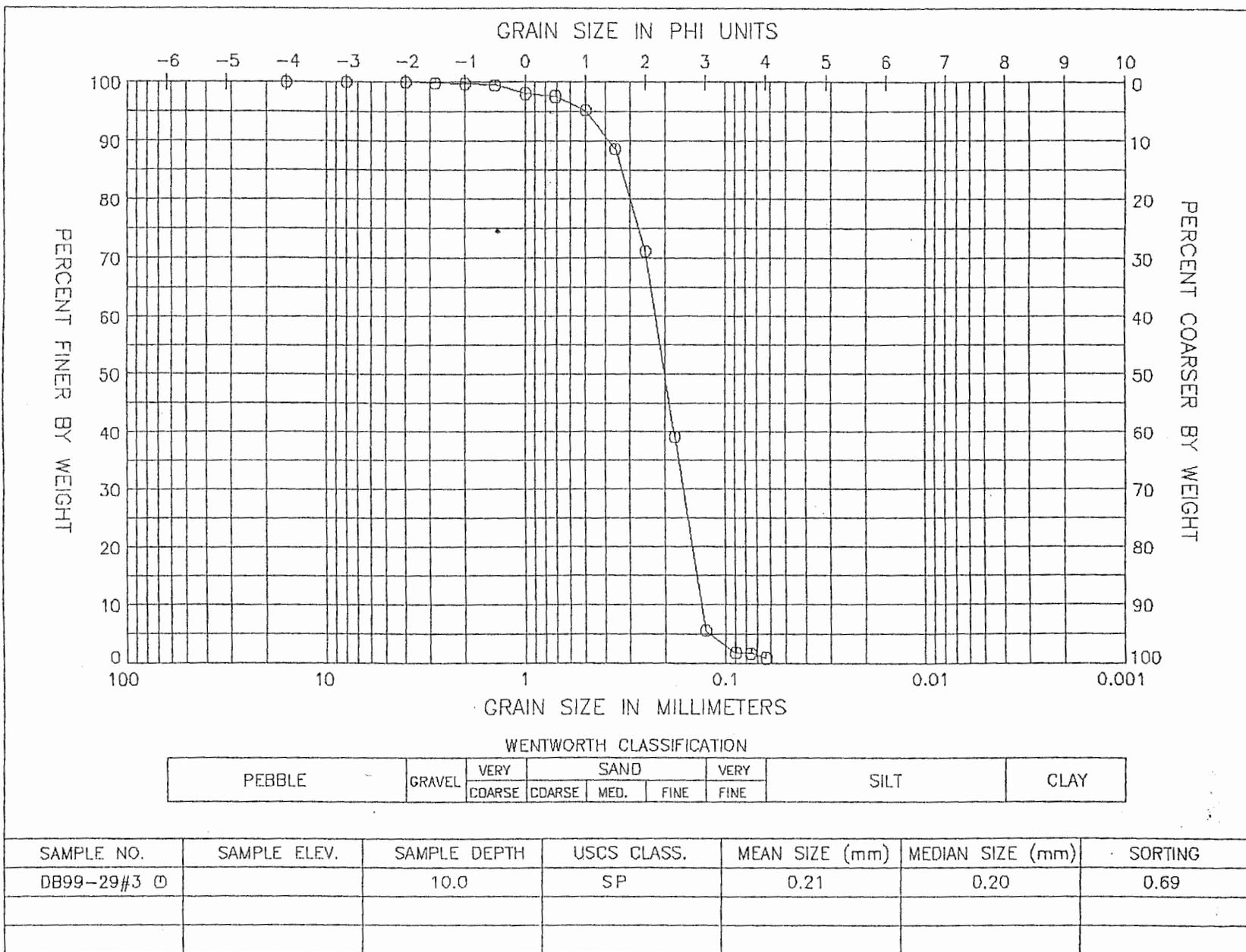
GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



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