

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= 966324 Y= 770218		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-99-23		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 -58.0 ft.		
9. TOTAL DEPTH OF HOLE 19.3' 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	
-58	0		SAND, fine-grained, trace shell hash, 2" whole shell at -64.0', Gray (5Y-6/1) (SP)			SP	
	1					1	Sample #1, Depth = 3.0' 0.24 mm, 0.68 phi sorting 1.27% silt
	2						
	3						
	4						
	5						
	6						
	7					2	Sample #2, Depth = 7.0' 0.27 mm, 0.81 phi sorting 1.18% silt
	8						
	9						
	10						
	11					3	Sample #3, Depth = 11.0' 0.23 mm, 0.64 phi sorting 1.85% silt
	12						
	13						
	14						
	15						
	16					4	Sample #4, Depth = 15.0' 0.21 mm, 0.64 phi sorting 1.91% silt
	17						
	18						
-77.3	19						
	20	End of Boring					
	21						
	22						
	23						
	24						

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

SAMPLE NO.: DB99-23 S#1
 SAMPLE ELEV. (FT. NGVD):
 SAMPLE DEPTH (FT.): 3.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 98.28
 SAMPLE WEIGHT AFTER WASH (GRAMS): 97.11

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	0.02	0.02	99.98
7	-1.50	2.800	0.13	0.13	99.87
10	-1.00	2.000	0.26	0.26	99.74
14	-0.50	1.400	0.66	0.67	99.33
18	0.00	1.000	1.14	1.16	98.84
25	0.50	0.710	2.60	2.65	97.35
35	1.00	0.500	6.35	6.46	93.54
45	1.50	0.355	13.88	14.12	85.88
60	2.00	0.250	40.25	40.95	59.05
80	2.50	0.180	74.69	76.00	24.00
120	3.00	0.125	94.17	95.82	4.18
170	3.50	0.090	96.92	98.62	1.38
200	3.75	0.075	97.03	98.73	1.27
230	4.00	0.063	97.67	99.38	0.62
PAN			98.28	100.00	0.00

PHI(5): 0.81 PHI(16): 1.53 PHI(25): 1.70
 PHI(50): 2.13 PHI(75): 2.49 PHI(84): 2.70
 PHI(95): 2.98

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.27%
 SKEWNESS: -0.403 KURTOSIS: 1.136

GRAPHIC METHOD

MEAN (PHI): 2.03 SORTING: 0.58
 MEAN (mm) : 0.24 MEDIAN (mm): 0.23

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.06 SORTING: 0.68
 MEAN (mm) : 0.24

DATA FILE NAME: DB99-23#1.TAB

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

SAMPLE NO.: DB99-23 S#2
 SAMPLE ELEV. (FT. NGVD):
 SAMPLE DEPTH (FT.): 7.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 99.79
 SAMPLE WEIGHT AFTER WASH (GRAMS): 98.68

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	0.57	0.57	99.43
5	-2.00	4.000	0.80	0.80	99.20
7	-1.50	2.800	0.96	0.96	99.04
10	-1.00	2.000	1.12	1.12	98.88
14	-0.50	1.400	1.53	1.53	98.47
18	0.00	1.000	2.18	2.18	97.82
25	0.50	0.710	4.02	4.03	95.97
35	1.00	0.500	8.47	8.49	91.51
45	1.50	0.355	17.84	17.88	82.12
60	2.00	0.250	48.68	48.78	51.22
80	2.50	0.180	83.50	83.68	16.32
120	3.00	0.125	97.04	97.24	2.76
170	3.50	0.090	98.56	98.77	1.23
200	3.75	0.075	98.61	98.82	1.18
230	4.00	0.063	99.18	99.39	0.61
PAN			99.77	99.98	0.02

PHI (5): 0.61 PHI (16): 1.40 PHI (25): 1.62
 PHI (50): 2.02 PHI (75): 2.38 PHI (84): 2.51
 PHI (95): 2.92

SIEVE LOSS (g): 0.02 SILT/CLAY: 1.18%
 SKEWNESS: -0.457 KURTOSIS: 1.244

GRAPHIC METHOD

MEAN (PHI): 1.89 SORTING: 0.56
 MEAN (mm) : 0.27 MEDIAN (mm): 0.25

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.90 SORTING: 0.81
 MEAN (mm) : 0.27

DATA FILE NAME: DB99-23#2.TAB

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

SAMPLE NO.: DB99-23 S#3
 SAMPLE ELEV. (FT. NGVD):
 SAMPLE DEPTH (FT.): 11.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 98.86
 SAMPLE WEIGHT AFTER WASH (GRAMS): 97.12

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	0.21	0.21	99.79
10	-1.00	2.000	0.37	0.37	99.63
14	-0.50	1.400	0.66	0.67	99.33
18	0.00	1.000	1.18	1.19	98.81
25	0.50	0.710	2.08	2.10	97.90
35	1.00	0.500	4.55	4.60	95.40
45	1.50	0.355	12.11	12.25	87.75
60	2.00	0.250	34.68	35.08	64.92
80	2.50	0.180	74.82	75.68	24.32
120	3.00	0.125	95.31	96.41	3.59
170	3.50	0.090	96.94	98.06	1.94
200	3.75	0.075	97.03	98.15	1.85
230	4.00	0.063	97.94	99.07	0.93
PAN			98.85	99.99	0.01

PHI(5): 1.03 PHI(16): 1.58 PHI(25): 1.78
 PHI(50): 2.18 PHI(75): 2.49 PHI(84): 2.70
 PHI(95): 2.97

SIEVE LOSS(g): 0.01 SILT/CLAY: 1.85%
 SKEWNESS: -0.336 KURTOSIS: 1.116

GRAPHIC METHOD
 MEAN (PHI): 2.09 SORTING: 0.56
 MEAN (mm) : 0.23 MEDIAN (mm): 0.22
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD
 MEAN (PHI): 2.10 SORTING: 0.64
 MEAN (mm) : 0.23

DATA FILE NAME: DB99-23#3.TAB

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

SAMPLE NO.: DB99-23 S#4
 SAMPLE ELEV. (FT. NGVD):
 SAMPLE DEPTH (FT.): 15.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 97.46
 SAMPLE WEIGHT AFTER WASH (GRAMS): 95.75

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	0.03	0.03	99.97
10	-1.00	2.000	0.18	0.18	99.82
14	-0.50	1.400	0.45	0.46	99.54
18	0.00	1.000	0.89	0.91	99.09
25	0.50	0.710	1.57	1.61	98.39
35	1.00	0.500	3.57	3.66	96.34
45	1.50	0.355	9.16	9.40	90.60
60	2.00	0.250	24.17	24.80	75.20
80	2.50	0.180	56.68	58.16	41.84
120	3.00	0.125	91.59	93.98	6.02
170	3.50	0.090	95.47	97.96	2.04
200	3.75	0.075	95.60	98.09	1.91
230	4.00	0.063	96.55	99.07	0.93
PAN			97.44	99.98	0.02

PHI(5): 1.12 PHI(16): 1.71 PHI(25): 2.00
 PHI(50): 2.38 PHI(75): 2.74 PHI(84): 2.86
 PHI(95): 3.13

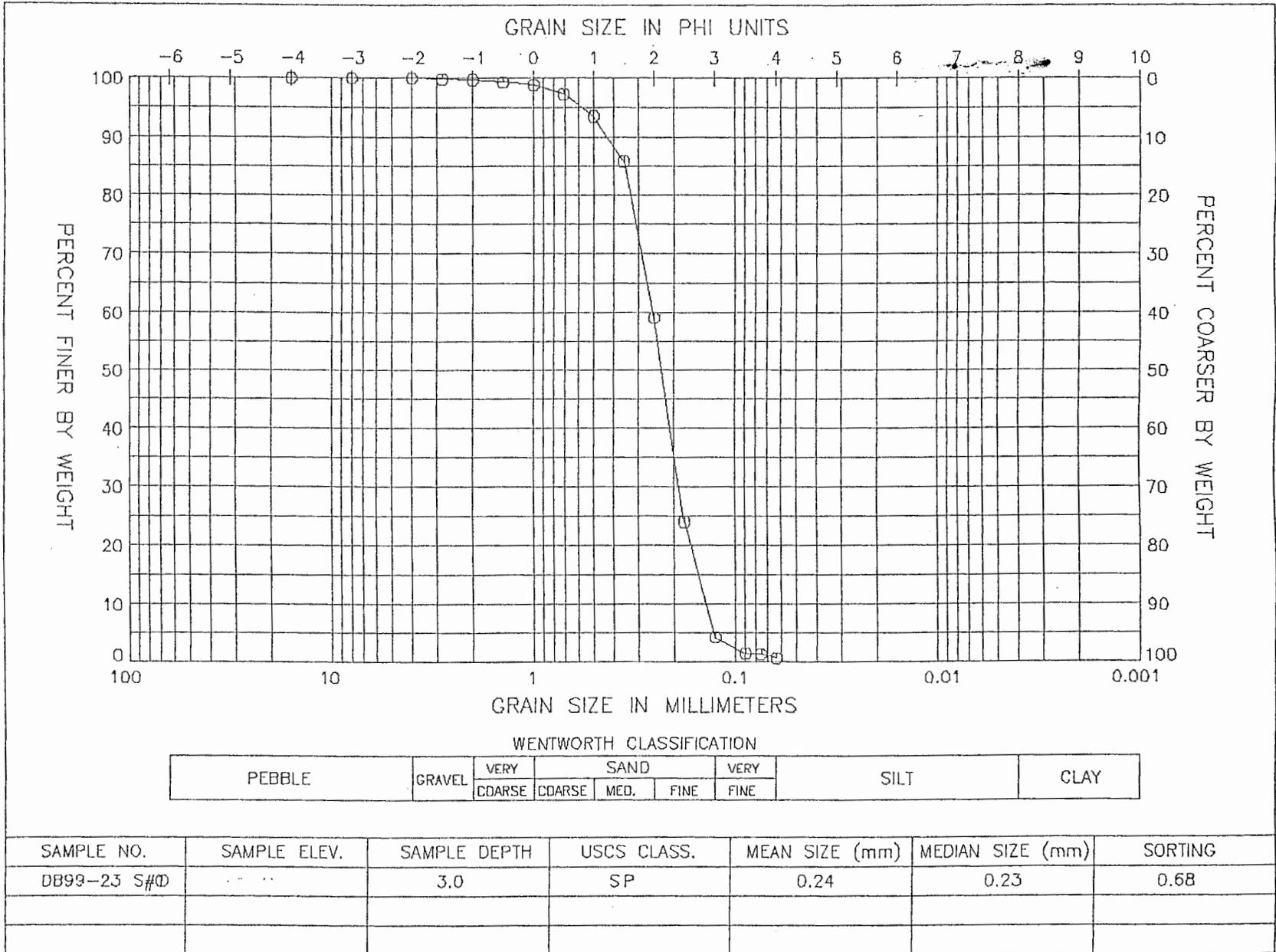
SIEVE LOSS(g): 0.02 SILT/CLAY: 1.91%
 SKEWNESS: -0.445 KURTOSIS: 1.126

GRAPHIC METHOD
 MEAN (PHI): 2.24 SORTING: 0.57
 MEAN (mm) : 0.21 MEDIAN (mm): 0.19
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

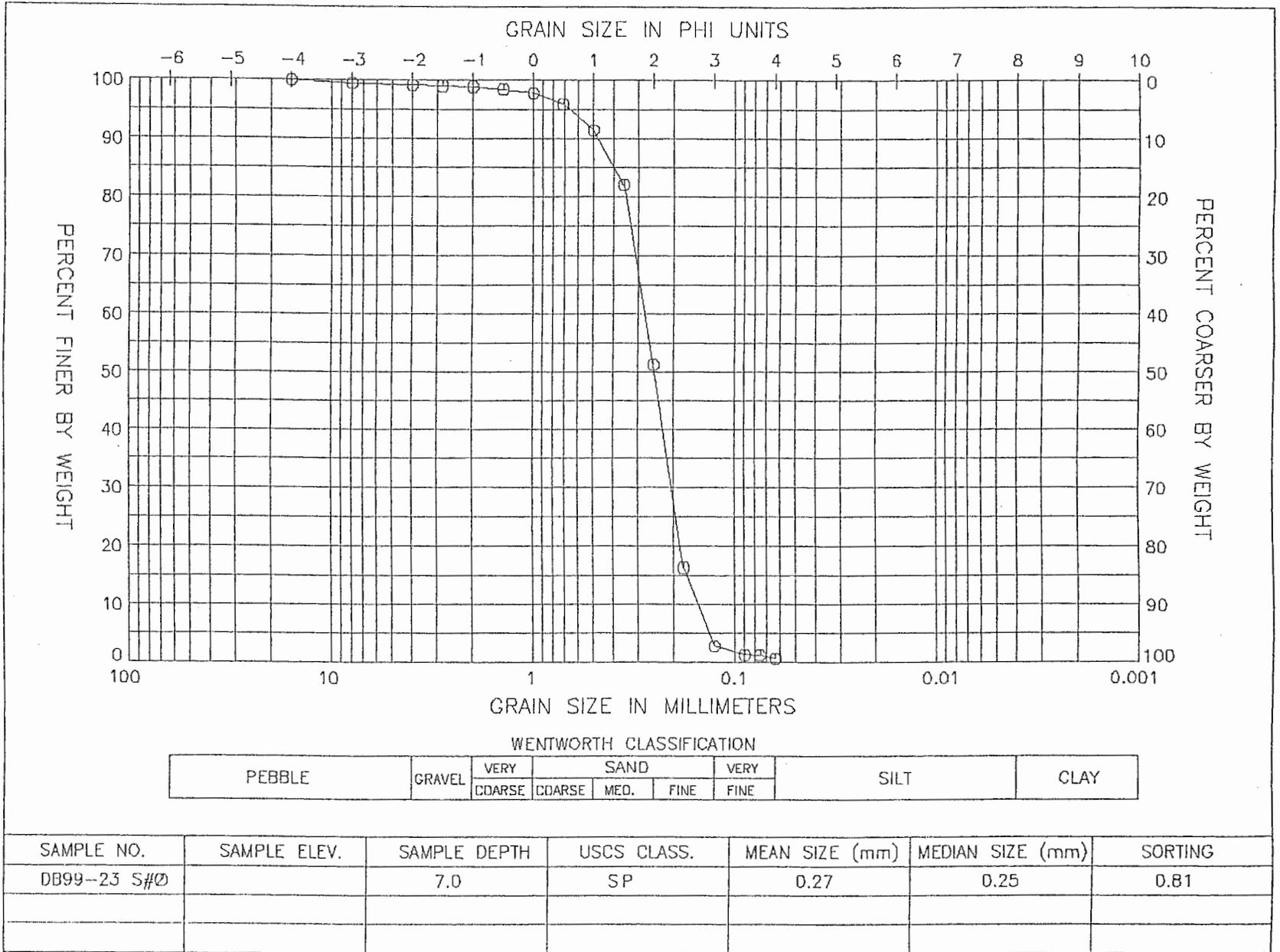
MOMENT METHOD
 MEAN (PHI): 2.28 SORTING: 0.64
 MEAN (mm) : 0.21

DATA FILE NAME: DB99-23#4.TAB

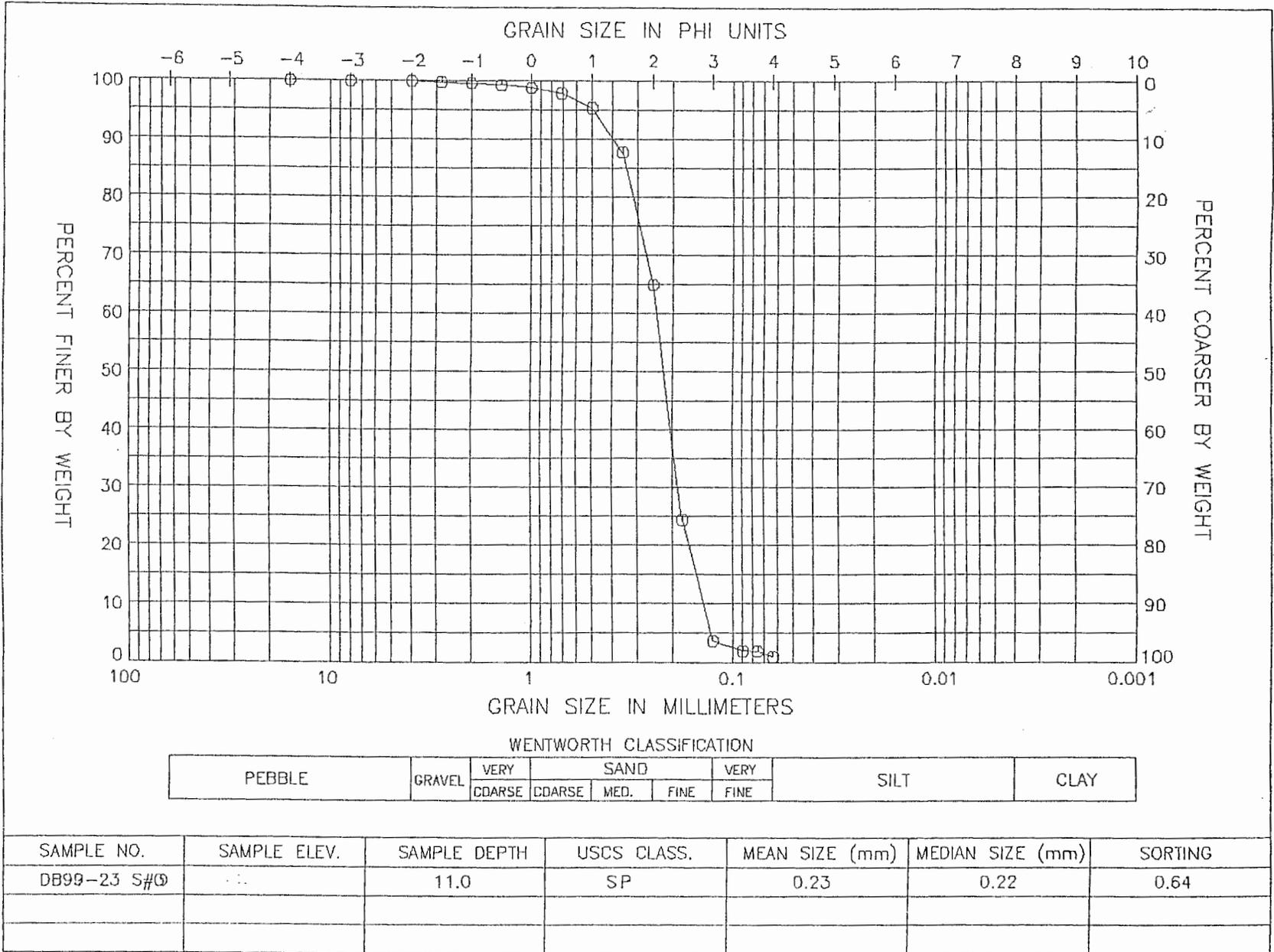
GRAIN SIZE DISTRIBUTION CURVE
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