

VIBRACORE LOG							
PROJECT: LIDO KEY SAND SEARCH BORROW AREA 4 CORE NO: LKVC - 20							
COORINATES:		DATE: JAN. 27, 1995		WATER DEPTH: 34.8 Ft. NGVD			
N = 1087009		START TIME: 1323		DRILLER: EXMAR			
E = 271087		END TIME: 1328		CLIENT REP : M. D. ANDREWS			
CORE DIAMETER:	2.5"	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BARREL:	12.0'	34.8'	0.0				
PENETRATION DEPTH:	7.5'			~	GRAY (N6), FINE / MEDIUM GRAINED SAND WITH		1.10 Phi
LENGTH RECOVERED:	5.6'			~	CALCAROUS SHELL HASH	1	0.47 mm
LENGTH RETAINED :	5.5'			~		1.0'	2.2 % SILT
		36.2'	1.4'	~		35.8	(SP)
SUPPORT VESSEL: EXMAR II							
POSITIONING: DGPS			2.5		LT GREENISH GRAY		2.87 Phi
MOTOROLA LGT 1000 / USCG BEACON					(10Y 7/1) FINE / MEDIUM GRAINED SAND	2	0.14 mm
						2.5'	11.7 % SILT
						37.3	(SP - SM)
WEATHER:							
WIND:							
DIR: VAR.							
SPEED: LIGHT							
							2.92 Phi
						38.8	0.13 mm
WAVES:							
DIR: VAR.							
HEIGHT: 0 - 1 Ft.						4.0'	20.4 % SILT
		39.7'	4.9				(SS)
			5.0	~	GREENISH GRAY (10Y 5/1)	4	1.22 Phi
CURRENT:		40.3'	5.5	~	FINE GRAINED SAND	5.0'	0.43 mm
DIR: SOUTH					WITH SHELL HASH	32.8	18.8 % SILT
SPEED: LIGHT							(SS)
				NOT RECOVERED			
ANALYSIS BY: MDA							
ANALYSIS METHOD:							
VISUAL LOGGING							
MECHANICAL SIEVE		42.3'	7.5				
SAND				X X X	ROCK		
SHELLS				X X X			
ROCK FRAG.							
SHELL HASH							
ROCK			10.0				

COASTAL PLANNING & ENGINEERING, INC

GRADATION ANALYSIS REPORT
LIDO KEY VIBRACORE JAN. 1995
TESTED BY: MDA ON: 03-02-95

SAMPLE NO.: LKVC-20 S1
SAMPLE ELEV. (FT. NGVD): -35.8
SAMPLE DEPTH (FT.): -1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 68.12
SAMPLE WEIGHT AFTER WASH (GRAMS): 66.68

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.28	.41	99.59
7	-1.5	2.800	.73	1.07	98.93
10	-1.0	2.000	1.52	2.23	97.77
14	-0.5	1.400	3.04	4.46	95.54
18	0.0	1.000	6.01	8.82	91.18
25	0.5	.710	14.87	21.83	78.17
35	1.0	.500	31.33	45.99	54.01
45	1.5	.355	45.61	66.96	33.04
60	2.0	.250	58.93	86.51	13.49
80	2.5	.180	63.20	92.78	7.22
120	3.0	.125	65.58	96.27	3.73
170	3.5	.090	66.51	97.64	2.36
200	3.75	.075	66.64	97.83	2.17
230	4.0	.063	67.38	98.91	1.09
PAN			68.11	99.99	.01

PHI(5): -.44 PHI(16): .28 PHI(25): .57
PHI(50): 1.10 PHI(75): 1.71 PHI(84): 1.94
PHI(95): 2.82

SIEVE LOSS(g): .01 SILT/CLAY: 2.17%
SKEWNESS: .189 KURTOSIS: 1.171

GRAPHIC METHOD

MEAN (PHI): 1.14 SORTING: .83
MEAN (mm): .45 MEDIAN (mm): .47
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.10 SORTING: .94
MEAN (mm): .47

DATA FILE NAME: LKVC20S1.TAB

GRADATION ANALYSIS REPORT
LIDO KEY VIBRACORE JAN. 1995
TESTED BY: MDA ON: 03-02-95

SAMPLE NO.: LKVC-20 S2
SAMPLE ELEV. (FT. NGVD): -37.3
SAMPLE DEPTH (FT.): -2.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 57.54
SAMPLE WEIGHT AFTER WASH (GRAMS): 51.45

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.17	.30	99.70
7	-1.5	2.800	.37	.64	99.36
10	-1.0	2.000	.79	1.37	98.63
14	-0.5	1.400	1.13	1.96	98.04
18	0.0	1.000	1.38	2.40	97.60
25	0.5	.710	1.88	3.27	96.73
35	1.0	.500	2.64	4.59	95.41
45	1.5	.355	3.50	6.08	93.92
60	2.0	.250	4.94	8.59	91.41
80	2.5	.180	7.65	13.30	86.70
120	3.0	.125	24.60	42.75	57.25
170	3.5	.090	46.19	80.27	19.73
200	3.75	.075	50.80	88.29	11.71
230	4.0	.063	54.36	94.48	5.52
PAN			57.49	99.91	.09

PHI(5): 1.14 PHI(16): 2.55 PHI(25): 2.70
PHI(50): 3.10 PHI(75): 3.43 PHI(84): 3.62
PHI(95): 4.02

SIEVE LOSS(g): .05 SILT/CLAY: 11.71%
SKEWNESS: -1.034 KURTOSIS: 1.616

GRAPHIC METHOD

MEAN (PHI): 2.88 SORTING: .54
MEAN (mm): .14 MEDIAN (mm): .12
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.87 SORTING: .91
MEAN (mm): .14

DATA FILE NAME: LKVC20S2.TAB

GRADATION ANALYSIS REPORT
LIDO KEY VIBRACORE JAN. 1995
TESTED BY: MDA ON: 03-02-95

SAMPLE NO.: LKVC-20 S3
SAMPLE ELEV. (FT. NGVD): -38.8
SAMPLE DEPTH (FT.): -4.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 61.35
SAMPLE WEIGHT AFTER WASH (GRAMS): 49.53

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.00	.00	100.00
7	-1.5	2.800	.00	.00	100.00
10	-1.0	2.000	.13	.21	99.79
14	-0.5	1.400	.24	.39	99.61
18	0.0	1.000	.65	1.06	98.94
25	0.5	.710	.85	1.39	98.61
35	1.0	.500	2.77	4.52	95.48
45	1.5	.355	4.30	7.01	92.99
60	2.0	.250	6.10	9.94	90.06
80	2.5	.180	9.10	14.83	85.17
120	3.0	.125	24.99	40.73	59.27
170	3.5	.090	43.30	70.58	29.42
200	3.75	.075	48.82	79.58	20.42
230	4.0	.063	55.34	90.20	9.80
PAN			61.32	99.95	.05

PHI(5): 1.10 PHI(16): 2.52 PHI(25): 2.70
PHI(50): 3.16 PHI(75): 3.62 PHI(84): 3.85
PHI(95): 4.11

SIEVE LOSS(g): .03 SILT/CLAY: 20.42%
SKEWNESS: -1.100 KURTOSIS: 1.334

GRAPHIC METHOD

MEAN (PHI): 2.95 SORTING: .67
MEAN (mm): .13 MEDIAN (mm): .11
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.92 SORTING: .82
MEAN (mm): .13

DATA FILE NAME: LKVC20S3.TAB

GRADATION ANALYSIS REPORT
LIDO KEY VIBRACORE JAN. 1995
TESTED BY: MDA ON: 03-02-95

SAMPLE NO.: LKVC-20 S4
SAMPLE ELEV. (FT. NGVD): -39.8
SAMPLE DEPTH (FT.): -5.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 64.40
SAMPLE WEIGHT AFTER WASH (GRAMS): 52.50

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	2.10	3.26	96.74
7	-1.5	2.800	3.71	5.76	94.24
10	-1.0	2.000	4.88	7.58	92.42
14	-0.5	1.400	6.84	10.62	89.38
18	0.0	1.000	10.62	16.49	83.51
25	0.5	.710	17.83	27.69	72.31
35	1.0	.500	28.24	43.85	56.15
45	1.5	.355	36.03	55.95	44.05
60	2.0	.250	41.78	64.88	35.12
80	2.5	.180	44.22	68.66	31.34
120	3.0	.125	47.86	74.32	25.68
170	3.5	.090	51.29	79.64	20.36
200	3.75	.075	52.32	81.24	18.76
230	4.0	.063	58.39	90.67	9.33
PAN			64.35	99.92	.08

PHI(5): -1.65 PHI(16): -.04 PHI(25): .38
PHI(50): 1.25 PHI(75): 3.06 PHI(84): 3.82
PHI(95): 4.11

SIEVE LOSS(g): .05 SILT/CLAY: 18.76%
SKEWNESS: -.046 KURTOSIS: .881

GRAPHIC METHOD

MEAN (PHI): 1.50 SORTING: 1.93
MEAN (mm): .35 MEDIAN (mm): .42

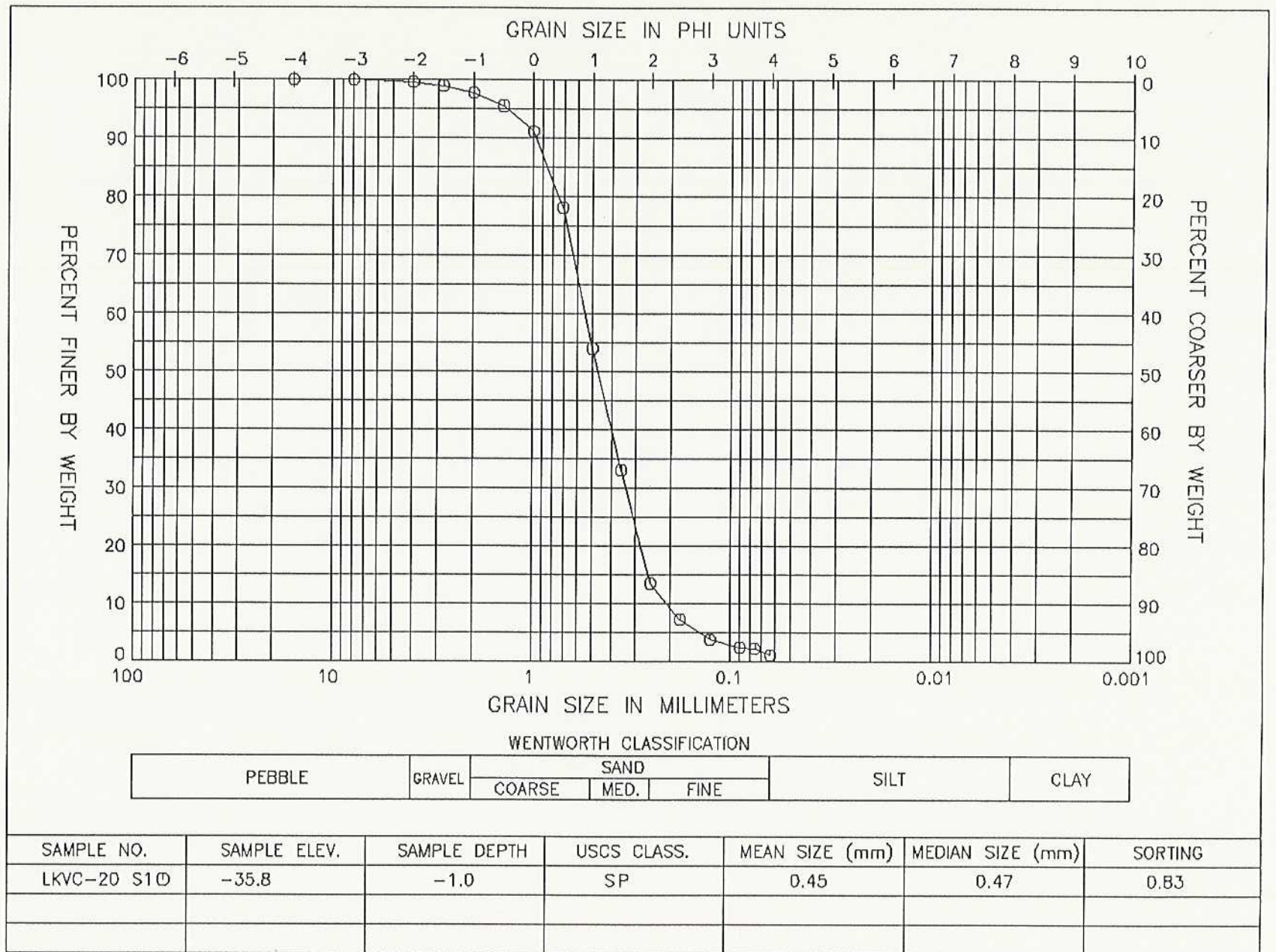
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

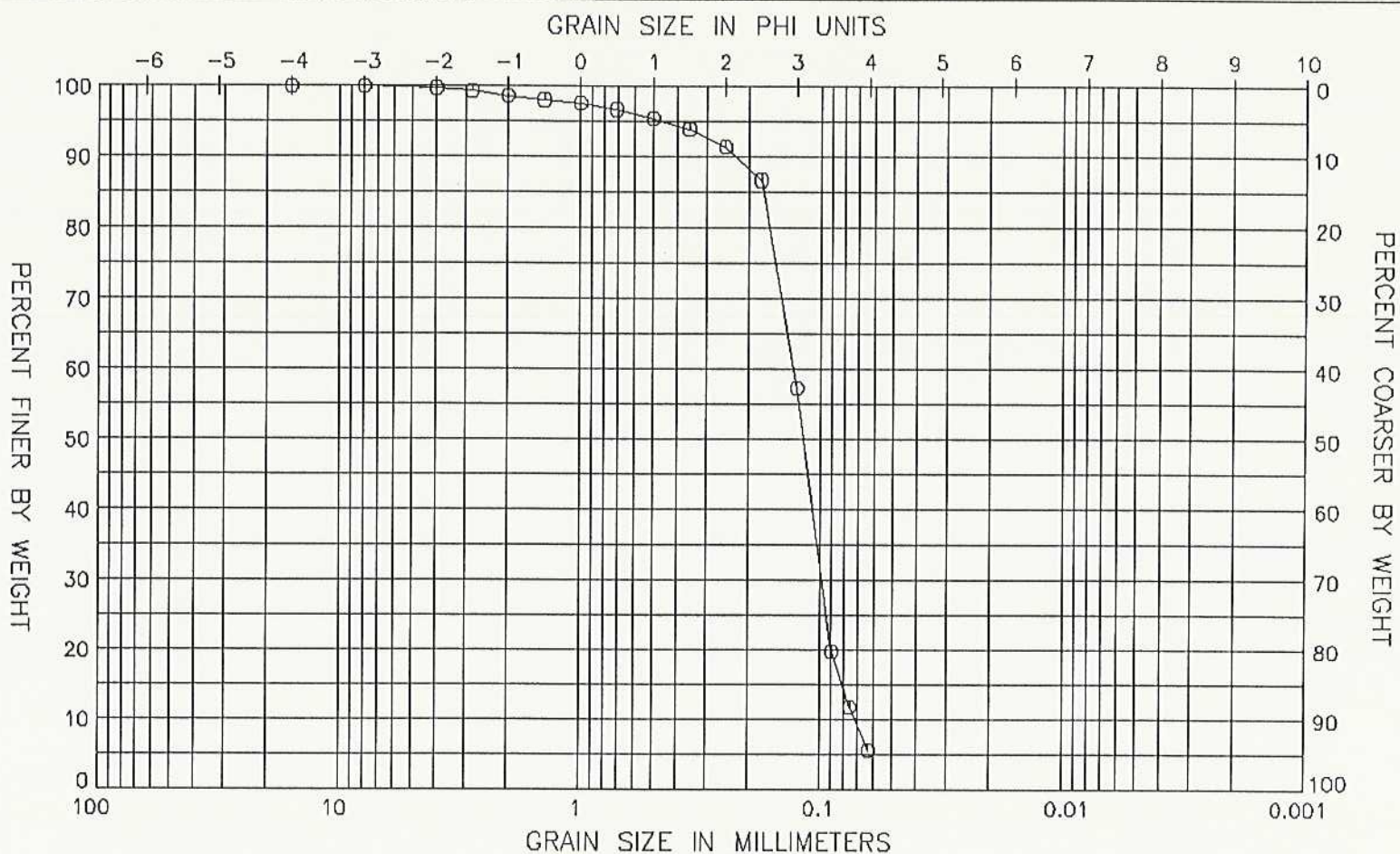
MEAN (PHI): 1.22 SORTING: 1.61
MEAN (mm): .43

DATA FILE NAME: LKVC20S4.TAB

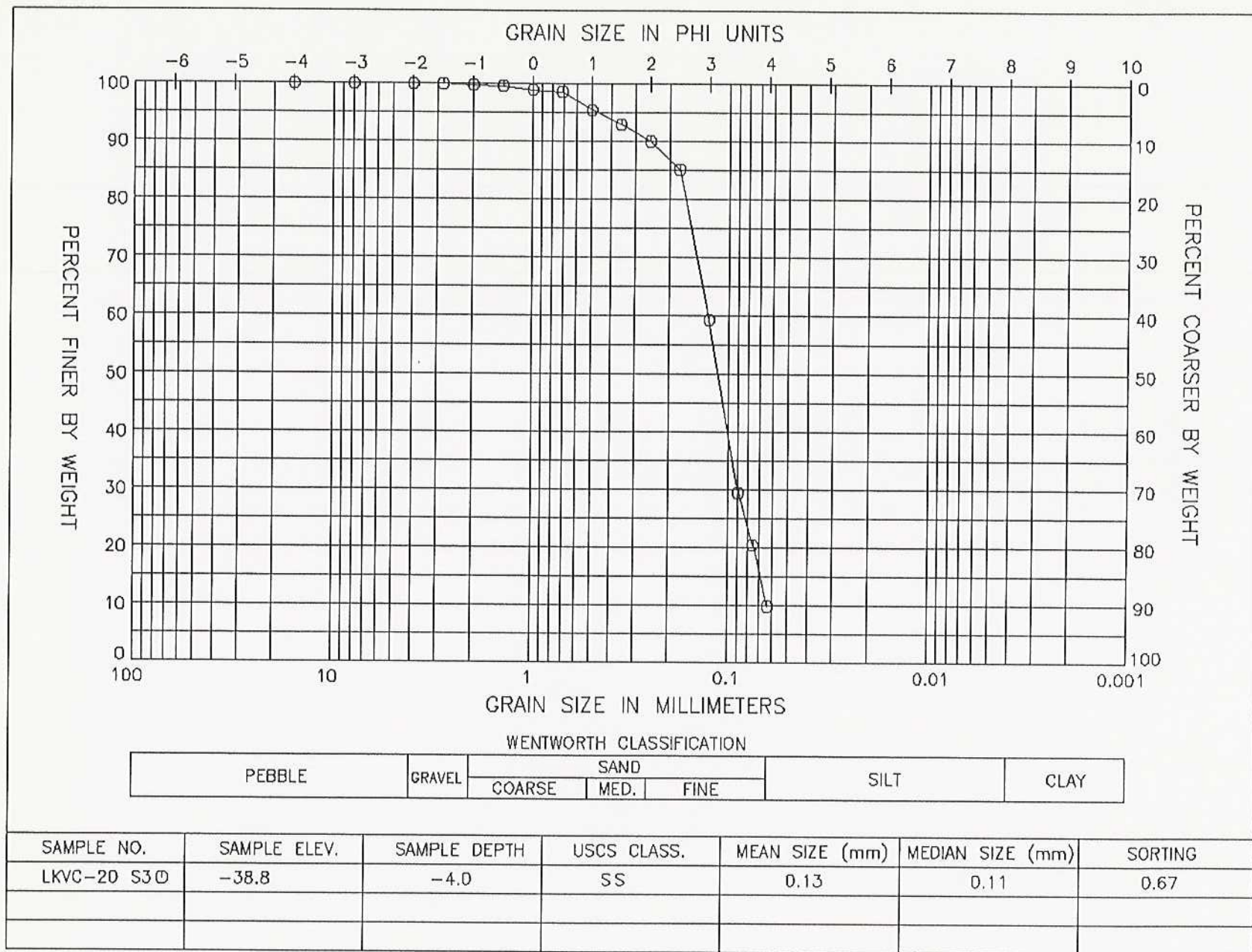
GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995



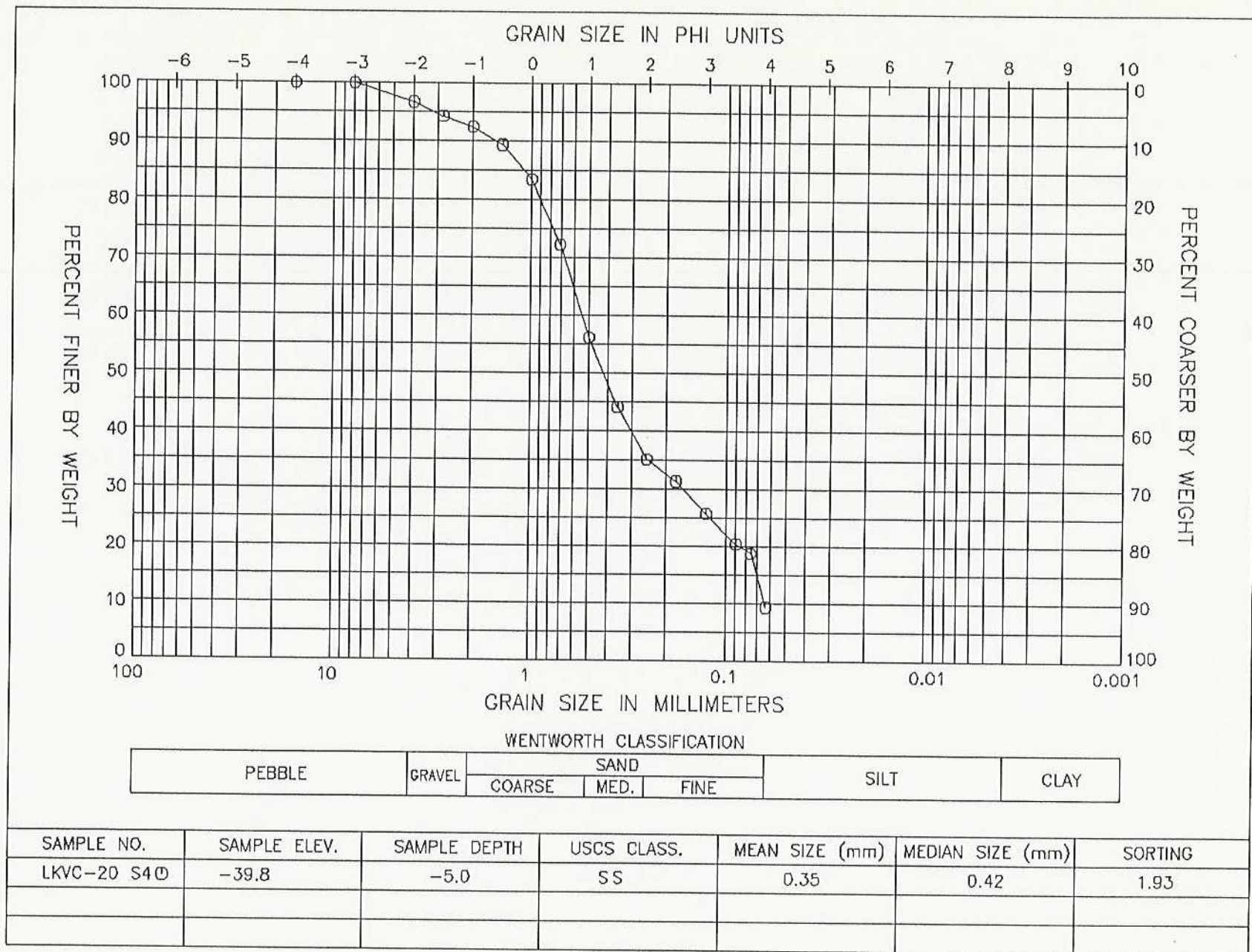
GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995



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GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995





LKVC-20

