






VIBRACORE LOG						
PROJECT: <u>LIDO KEY SAND SEARCH BORROW AREA 1</u> CORE NO: <u>LKVC - 8</u>						
COORINATES: N = 1075208 E = 280861	DATE: JAN. 26, 1995 START TIME: 1639 END TIME: 1645	WATER DEPTH: 34.0 Ft. NGVD DRILLER: EXMAR CLIENT RE P : M. D. ANDREWS				
CORE DIAMETER: 2.5" LENGTH OF BARREL: 12.0' PENETRATION DEPTH: 4.5' LENGTH RECOVERED: 4.3' LENGTH RETAINED : 4.3'	ELEV. 34.0'	DEPTH 0.0	LEGEND <div style="border: 1px solid black; width: 20px; height: 20px; background-color: #cccccc; margin: 0 auto;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; background-color: white; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> @ </div> <div style="border: 1px solid black; width: 20px; height: 20px; background-color: white; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> X X X X X </div>	DESCRIPTION LIGHT GREENISH GRAY (10Y 7/1) FINE / MEDIUM GRAINED SAND 1 - 2 cm ROCK FRAGMENTS LIGHT GREENISH GRAY (10Y 7/1) FINE / MEDIUM GRAINED SAND NOT RECOV. X X X X X ROCK	SAMP NO. 1 2 3	REMARKS 2.69 Phi 0.16 mm 10.4 % SILT (SP - SM) 2.59 Phi 0.17 mm 14.2 % SILT (SS) 2.29 Phi 0.20 mm 13.6% SILT (SP - SM)
SUPPORT VESSEL: EXMAR II POSITIONING: DGPS MOTOROLA LGT 1000 / USCG BEACON		2.5				
<u>WEATHER:</u> <u>WIND:</u> DIR : NORTH SPEED : 10 Kt <u>WAVES:</u> DIR : NW HEIGHT: 1 - 3 Ft. <u>CURRENT:</u> DIR : SOUTH SPEED : MODERATE	38.3' 38.5'	4.3 4.5 5.0				
ANALYSIS BY : MDA <u>ANALYSIS METHOD:</u> VISUAL LOGGING MECHANICAL SIEVE		7.5				
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> SAND  </div> <div style="text-align: center;"> SHELLS  </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> ROCK FRAG.  </div> <div style="text-align: center;"> SHELL HASH  </div> </div> <div style="text-align: center; margin-top: 10px;"> ROCK  </div>		10.0				

NOTE: MEAN WAS CALCULATED USING MOMENT METHOD
 NOTE: COORDINATE SYSTEM - FLORIDA STATE PLANE NAD 1927
 NOTE : CORE WEIGHTED COMPOSITE 0.17 mm

COASTAL PLANNING & ENGINEERING, INC

GRADATION ANALYSIS REPORT
LIDO KEY VIBRACORE JAN. 1995
TESTED BY: MDA ON: 02-27-95

SAMPLE NO.: LKVC-8 S#1
SAMPLE ELEV. (FT. NGVD): -35.0
SAMPLE DEPTH (FT.): -1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 68.23
SAMPLE WEIGHT AFTER WASH (GRAMS): 61.52

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	.46	.67	99.33
10	-1.0	2.000	.96	1.41	98.59
14	-0.5	1.400	1.35	1.98	98.02
18	0.0	1.000	1.80	2.64	97.36
25	0.5	.710	2.62	3.84	96.16
35	1.0	.500	3.75	5.50	94.50
45	1.5	.355	4.80	7.04	92.96
60	2.0	.250	7.24	10.61	89.39
80	2.5	.180	15.85	23.23	76.77
120	3.0	.125	41.22	60.41	39.59
170	3.5	.090	58.00	85.01	14.99
200	3.75	.075	61.13	89.59	10.41
230	4.0	.063	64.76	94.92	5.08
PAN			68.16	99.90	.10

PHI(5): .85 PHI(16): 2.21 PHI(25): 2.52
PHI(50): 2.86 PHI(75): 3.30 PHI(84): 3.48
PHI(95): 4.00

SIEVE LOSS(g): .07 SILT/CLAY: 10.41%
SKEWNESS: -.866 KURTOSIS: 1.672

GRAPHIC METHOD

MEAN (PHI): 2.68 SORTING: .63
MEAN (mm): .16 MEDIAN (mm): .14
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.69 SORTING: .91
MEAN (mm): .16

DATA FILE NAME: LKVC8-S1.TAB

GRADATION ANALYSIS REPORT
LIDO KEY VIBRACORE JAN. 1995
TESTED BY: MDA ON: 02-27-95

SAMPLE NO.: LKVC-8 S#2
SAMPLE ELEV. (FT. NGVD): -36.5
SAMPLE DEPTH (FT.): -2.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 64.04
SAMPLE WEIGHT AFTER WASH (GRAMS): 55.62

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	.98	1.53	98.47
7	-1.5	2.800	2.10	3.28	96.72
10	-1.0	2.000	2.75	4.29	95.71
14	-0.5	1.400	3.42	5.34	94.66
18	0.0	1.000	4.00	6.25	93.75
25	0.5	.710	4.94	7.71	92.29
35	1.0	.500	5.93	9.26	90.74
45	1.5	.355	7.24	11.31	88.69
60	2.0	.250	9.52	14.87	85.13
80	2.5	.180	15.63	24.41	75.59
120	3.0	.125	31.82	49.69	50.31
170	3.5	.090	50.30	78.54	21.46
200	3.75	.075	54.95	85.81	14.19
230	4.0	.063	59.71	93.24	6.76
PAN			63.98	99.91	.09

PHI(5): -.66 PHI(16): 2.06 PHI(25): 2.51
PHI(50): 3.01 PHI(75): 3.44 PHI(84): 3.69
PHI(95): 4.06

SIEVE LOSS(g): .06
SKEWNESS: -2.614
SILT/CLAY: 14.19%
KURTOSIS: 2.088

GRAPHIC METHOD

MEAN (PHI): 2.43
MEAN (mm): .19
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
SORTING: .81
MEDIAN (mm): .12

MOMENT METHOD

MEAN (PHI): 2.59
MEAN (mm): .17
SORTING: 1.31

DATA FILE NAME: LKVC8-S2.TAB

GRADATION ANALYSIS REPORT
LIDO KEY VIBRACORE JAN. 1995
TESTED BY: MDA ON: 02-27-95

SAMPLE NO.: LKVC-8 S#3
SAMPLE ELEV. (FT. NGVD): -38.2
SAMPLE DEPTH (FT.): -4.2
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 63.50
SAMPLE WEIGHT AFTER WASH (GRAMS): 55.27

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	1.11	1.75	98.25
7	-1.5	2.800	1.43	2.25	97.75
10	-1.0	2.000	2.01	3.17	96.83
14	-0.5	1.400	2.94	4.63	95.37
18	0.0	1.000	4.21	6.63	93.37
25	0.5	.710	6.52	10.27	89.73
35	1.0	.500	9.50	14.96	85.04
45	1.5	.355	11.80	18.58	81.42
60	2.0	.250	16.45	25.91	74.09
80	2.5	.180	25.46	40.09	59.91
120	3.0	.125	40.24	63.37	36.63
170	3.5	.090	51.64	81.32	18.68
200	3.75	.075	54.88	86.43	13.57
230	4.0	.063	59.32	93.41	6.59
PAN			63.45	99.92	.08

PHI(5): -.41 PHI(16): 1.14 PHI(25): 1.94
PHI(50): 2.71 PHI(75): 3.32 PHI(84): 3.63
PHI(95): 4.06

SIEVE LOSS(g): .05 SILT/CLAY: 13.57%
SKEWNESS: -1.776 KURTOSIS: 1.320

GRAPHIC METHOD

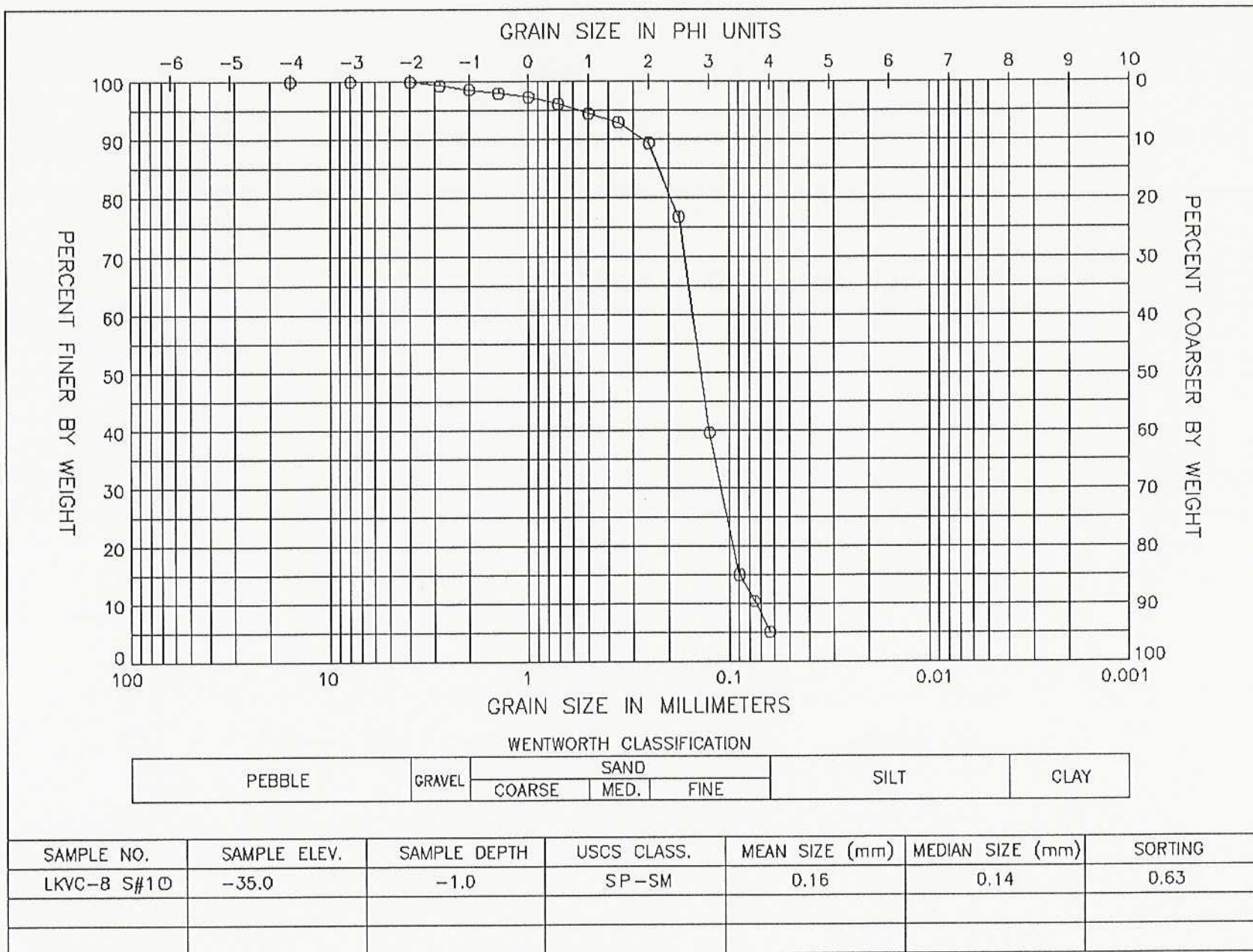
MEAN (PHI): 2.23 SORTING: 1.24
MEAN (mm): .21 MEDIAN (mm): .15
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

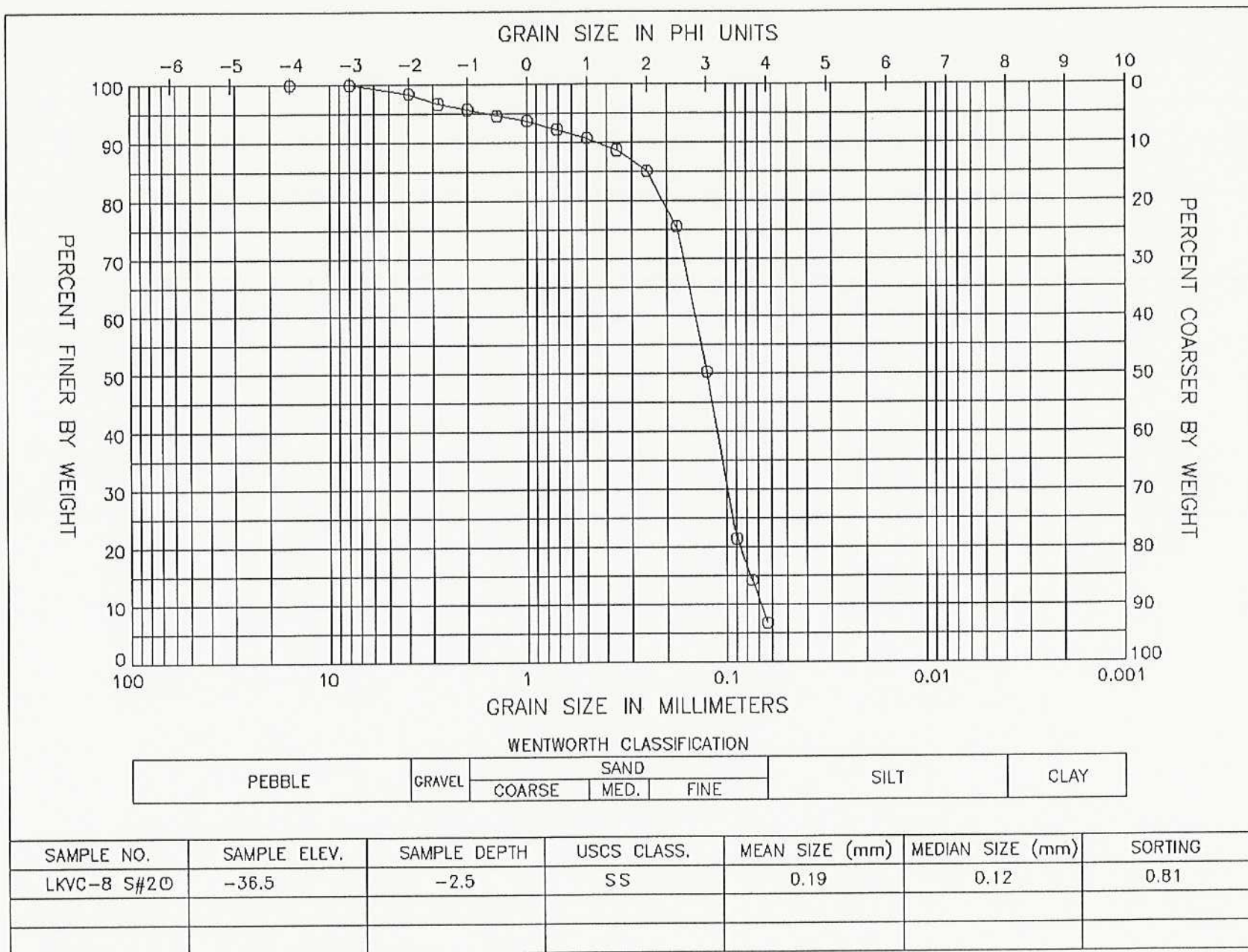
MEAN (PHI): 2.29 SORTING: 1.34
MEAN (mm): .20

DATA FILE NAME: LKVC8-S3.TAB

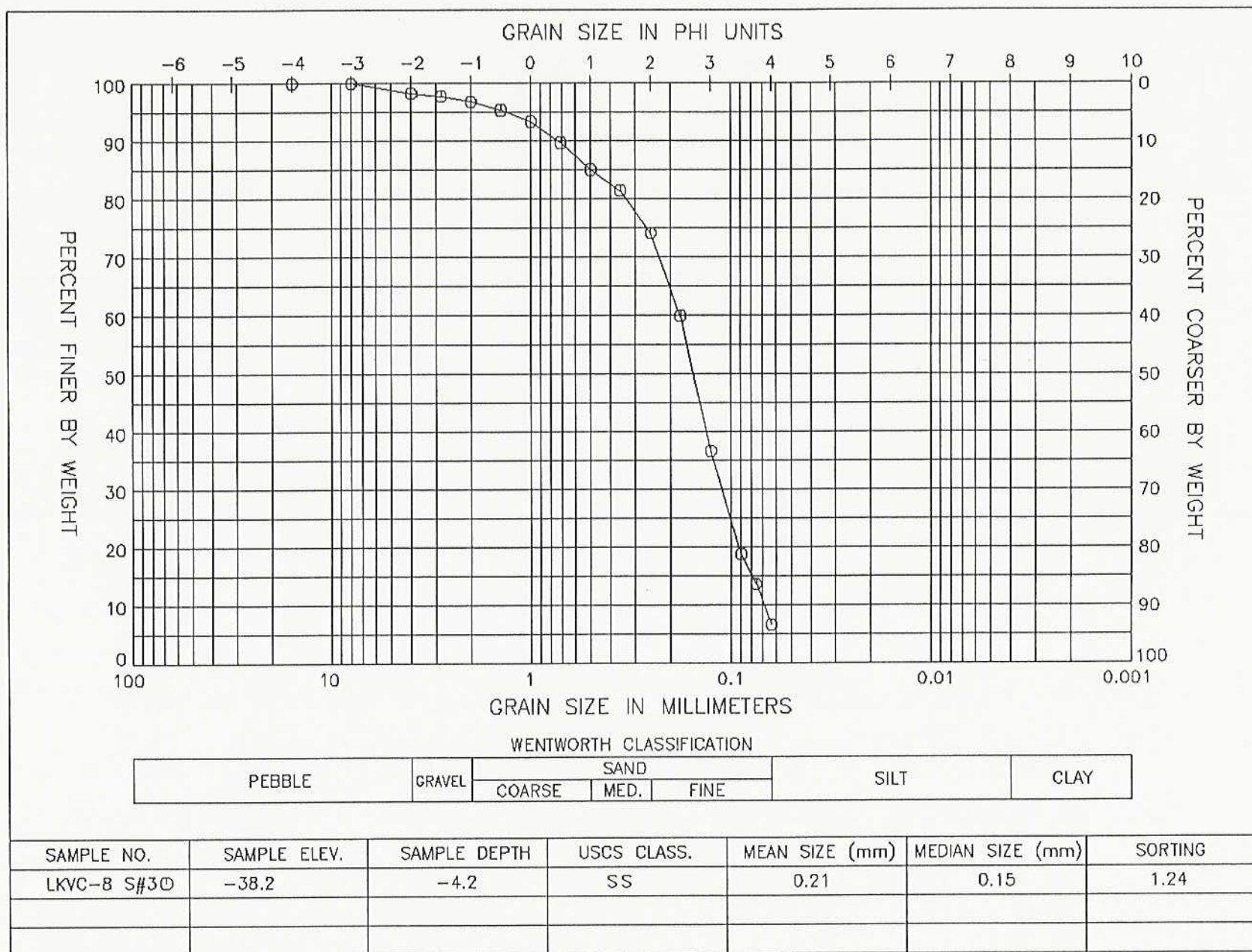
GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995

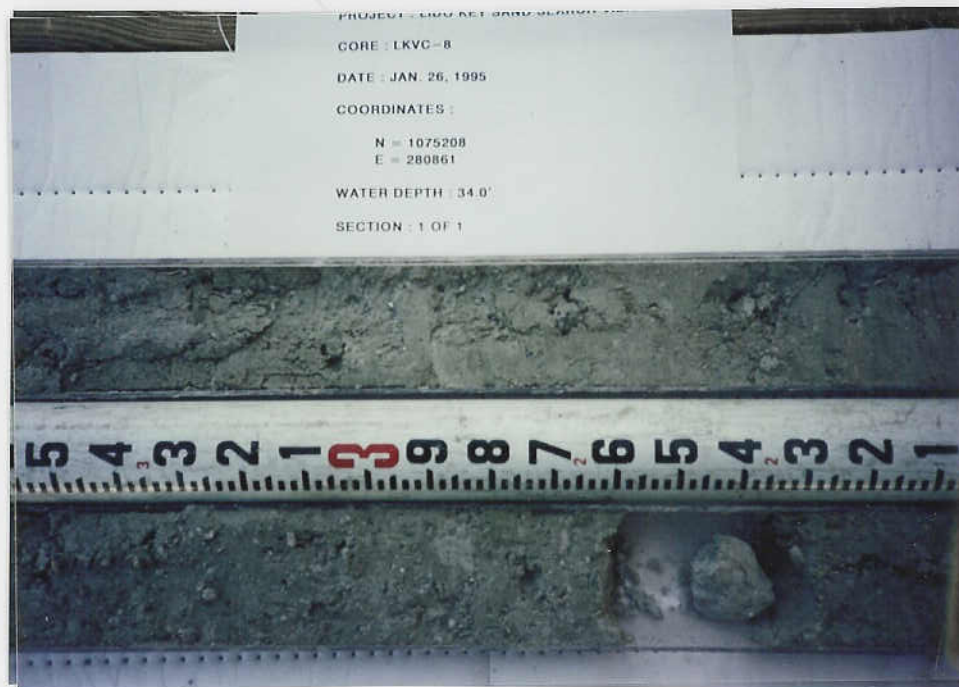
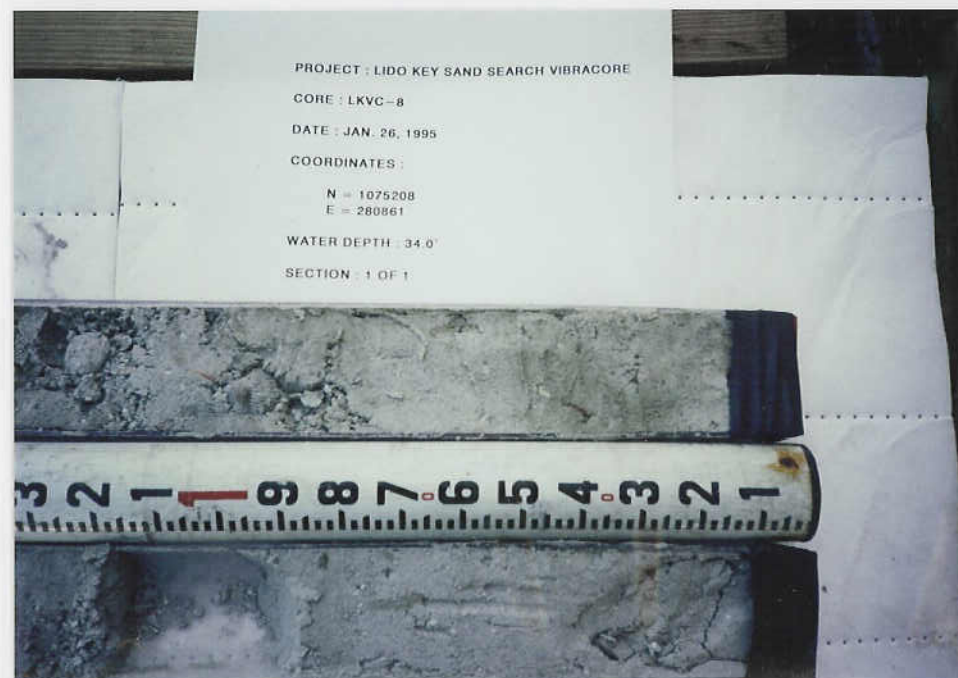
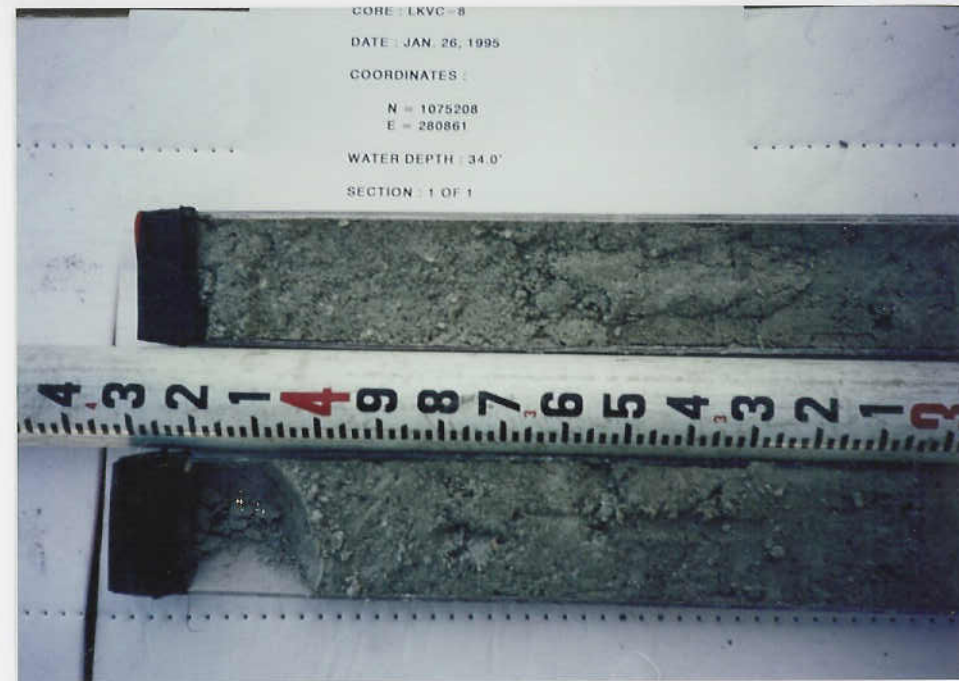
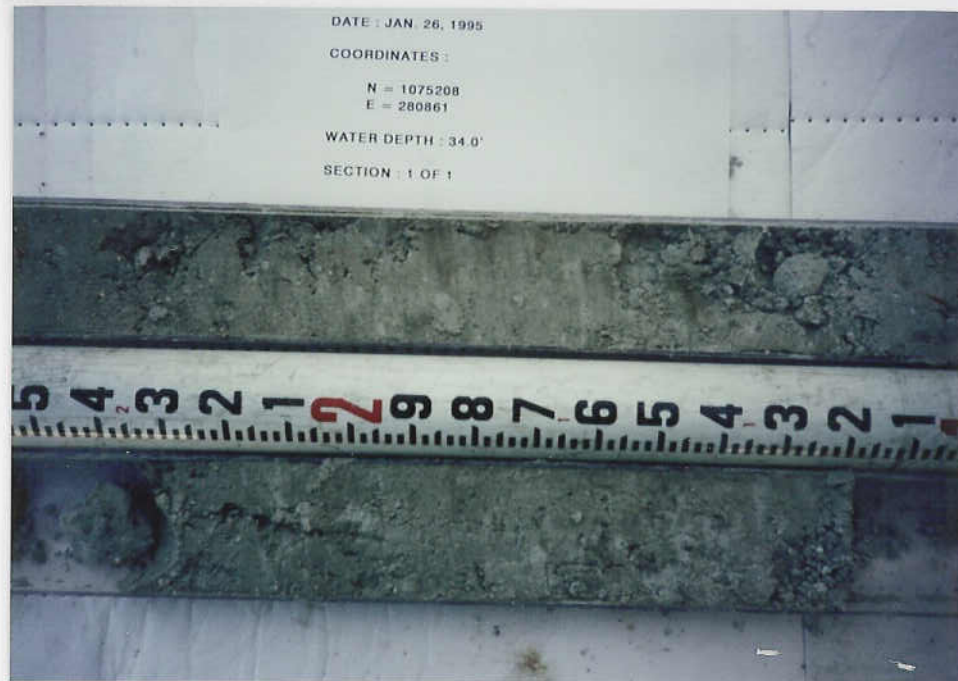


GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995



GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995





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