







VIBRACORE LOG							
PROJECT: LIDO KEY SAND SEARCH BORROW AREA 4 CORE NO: LKVC - 17							
COORINATES: N = 1085246 E = 272023	DATE: JAN. 27, 1995 START TIME: 1521 END TIME: 1530	WATER DEPTH: 35.0 Ft. NGVD DRILLER: EXMAR CLIENT REP : M. D. ANDREWS					
CORE DIAMETER: 2.5" LENGTH OF BARREL: 12.0' PENETRATION DEPTH: 5.0' LENGTH RECOVERED: 4.4' LENGTH RETAINED : 4.3' SUPPORT VESSEL: EXMAR II POSITIONING: DGPS MOTOROLA LGT 1000 / USCG BEACON	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
	35.0'	0.0					
				LIGHT GREENISH GRAY (10Y 7/1) FINE / MEDIUM GRAINED SAND	1 1.0' 36.0	2.84 Phi 0.14 mm 14.2 % SILT (SS)	
		2.5			LIGHT GREENISH GRAY (10Y 7/1) FINE / MEDIUM GRAINED SAND	2 2.5' 37.5	2.54 Phi 0.17 mm 16.8 % SILT (SS)
	39.0'	4.0					
<u>WEATHER:</u> <u>WIND:</u> DIR : VAR. SPEED : LIGHT <u>WAVES:</u> DIR : VAR. HEIGHT: 0 - 1 Ft. <u>CURRENT:</u> DIR : SOUTH SPEED : LIGHT	39.3'	4.3		PALE YELLOW (5Y 8/2) FINE GRAINED SAND	3 4.1' 39.1	1.24 Phi 0.42 mm 22.5% SILT (SS)	
	40.0'	5.0	NOT RECOVERED X X X X X	ROCK			
ANALYSIS BY : MDA ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE		7.5					
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>SAND</p> </div> <div style="text-align: center;">  <p>SHELLS</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  <p>ROCK FRAG.</p> </div> <div style="text-align: center;">  <p>SHELL HASH</p> </div> </div> <div style="text-align: center; margin-top: 10px;">  <p>ROCK</p> </div>		10.0					

NOTE: MEAN WAS CALCULATED USING MOMENT METHOD
NOTE: COORDINATE SYSTEM - FLORIDA STATE PLANE NAD 1927
NOTE : CORE WEIGHTED COMPOSITE 0.19 mm

COASTAL PLANNING & ENGINEERING, INC

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

SAMPLE NO.: LKVC-17 S1
SAMPLE ELEV. (FT. NGVD): -36.0
SAMPLE DEPTH (FT.): -1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 70.50
SAMPLE WEIGHT AFTER WASH (GRAMS): 61.13

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	.21	.30	99.70
10	-1.0	2.000	.45	.64	99.36
14	-0.5	1.400	1.06	1.50	98.50
18	0.0	1.000	1.67	2.37	97.63
25	0.5	.710	2.70	3.83	96.17
35	1.0	.500	4.19	5.94	94.06
45	1.5	.355	5.24	7.43	92.57
60	2.0	.250	7.08	10.04	89.96
80	2.5	.180	10.93	15.50	84.50
120	3.0	.125	30.87	43.79	56.21
170	3.5	.090	55.02	78.04	21.96
200	3.75	.075	60.47	85.77	14.23
230	4.0	.063	65.68	93.17	6.83
PAN			70.45	99.93	.07

PHI(5): .78 PHI(16): 2.51 PHI(25): 2.67
PHI(50): 3.09 PHI(75): 3.46 PHI(84): 3.69
PHI(95): 4.06

SIEVE LOSS(g): .05 SILT/CLAY: 14.23%
SKEWNESS: -1.343 KURTOSIS: 1.709

GRAPHIC METHOD

MEAN (PHI): 2.83 SORTING: .59
MEAN (mm): .14 MEDIAN (mm): .12
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.84 SORTING: .91
MEAN (mm): .14

DATA FILE NAME: LKVC17S1.TAB

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

SAMPLE NO.: LKVC-17 S2
SAMPLE ELEV. (FT. NGVD): -37.5
SAMPLE DEPTH (FT.): -2.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 59.81
SAMPLE WEIGHT AFTER WASH (GRAMS): 50.37

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	2.23	3.73	96.27
7	-1.5	2.800	2.53	4.23	95.77
10	-1.0	2.000	3.12	5.22	94.78
14	-0.5	1.400	3.87	6.47	93.53
18	0.0	1.000	4.64	7.76	92.24
25	0.5	.710	6.20	10.37	89.63
35	1.0	.500	7.80	13.04	86.96
45	1.5	.355	8.73	14.60	85.40
60	2.0	.250	10.05	16.80	83.20
80	2.5	.180	12.66	21.17	78.83
120	3.0	.125	25.70	42.97	57.03
170	3.5	.090	44.71	74.75	25.25
200	3.75	.075	49.76	83.20	16.80
230	4.0	.063	54.97	91.91	8.09
PAN			59.75	99.90	.10

PHI(5): -1.11 PHI(16): 1.82 PHI(25): 2.59
PHI(50): 3.11 PHI(75): 3.51 PHI(84): 3.77
PHI(95): 4.09

SIEVE LOSS(g): .06 SILT/CLAY: 16.80%
SKEWNESS: -3.242 KURTOSIS: 2.317

GRAPHIC METHOD

MEAN (PHI): 2.34 SORTING: .98
MEAN (mm): .20 MEDIAN (mm): .12
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.54 SORTING: 1.51
MEAN (mm): .17

DATA FILE NAME: LKVC17S2.TAB

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

SAMPLE NO.: LKVC-17 S3
SAMPLE ELEV. (FT. NGVD): -39.1
SAMPLE DEPTH (FT.): -4.1
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 66.00
SAMPLE WEIGHT AFTER WASH (GRAMS): 51.61

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	9.27	14.05	85.95
7	-1.5	2.800	12.12	18.36	81.64
10	-1.0	2.000	15.06	22.82	77.18
14	-0.5	1.400	17.37	26.32	73.68
18	0.0	1.000	19.10	28.94	71.06
25	0.5	.710	21.17	32.08	67.92
35	1.0	.500	23.76	36.00	64.00
45	1.5	.355	25.76	39.03	60.97
60	2.0	.250	29.04	44.00	56.00
80	2.5	.180	32.56	49.33	50.67
120	3.0	.125	38.16	57.82	42.18
170	3.5	.090	47.71	72.29	27.71
200	3.75	.075	51.18	77.55	22.45
230	4.0	.063	58.76	89.04	10.96
PAN			66.00	100.00	.00

PHI(5): -2.64 PHI(16): -1.77 PHI(25): -.69
PHI(50): 2.54 PHI(75): 3.63 PHI(84): 3.89
PHI(95): 4.13

SIEVE LOSS(g): .00 SILT/CLAY: 22.45%
SKEWNESS: -3.593 KURTOSIS: .643

GRAPHIC METHOD

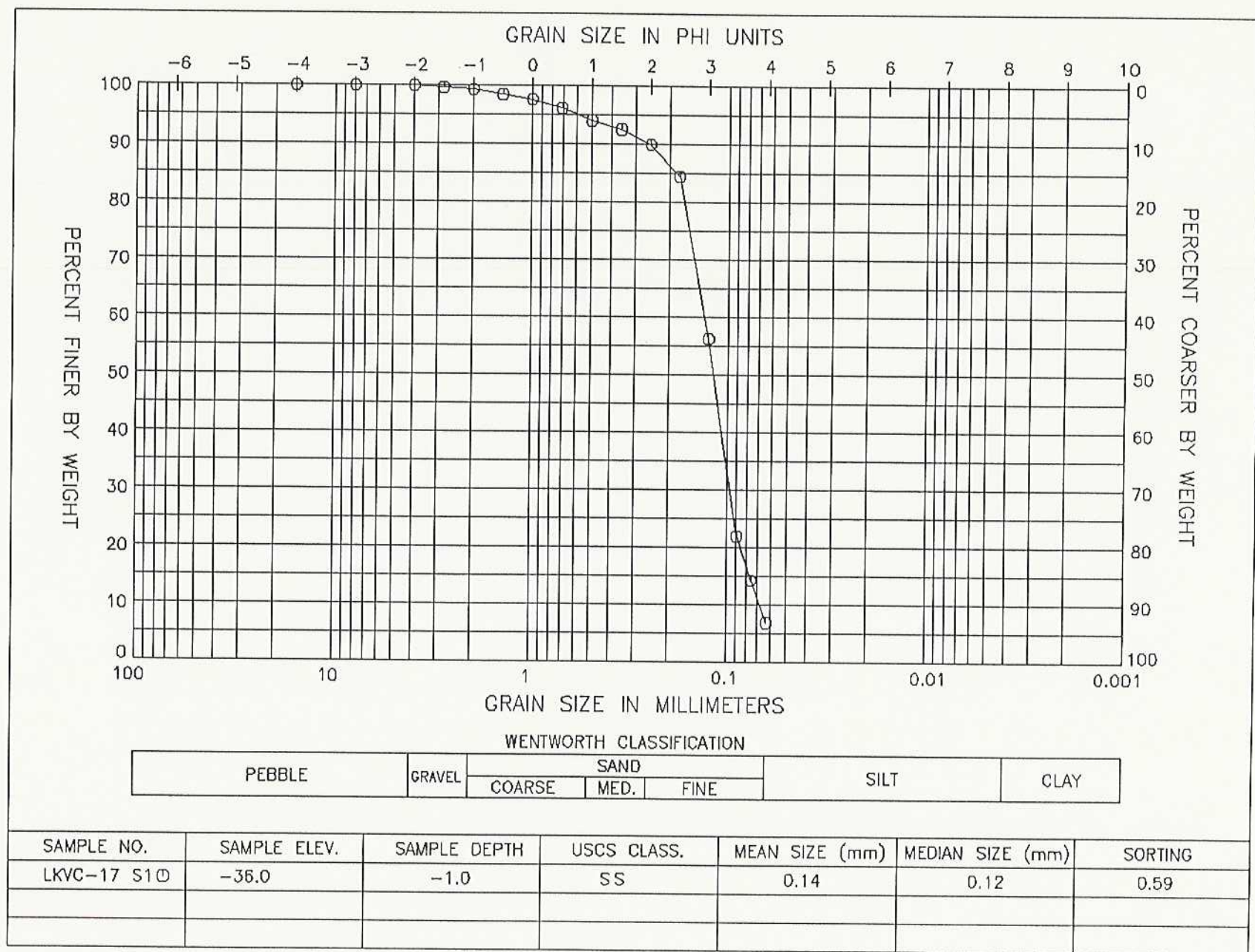
MEAN (PHI): 1.23 SORTING: 2.83
MEAN (mm): .43 MEDIAN (mm): .17
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

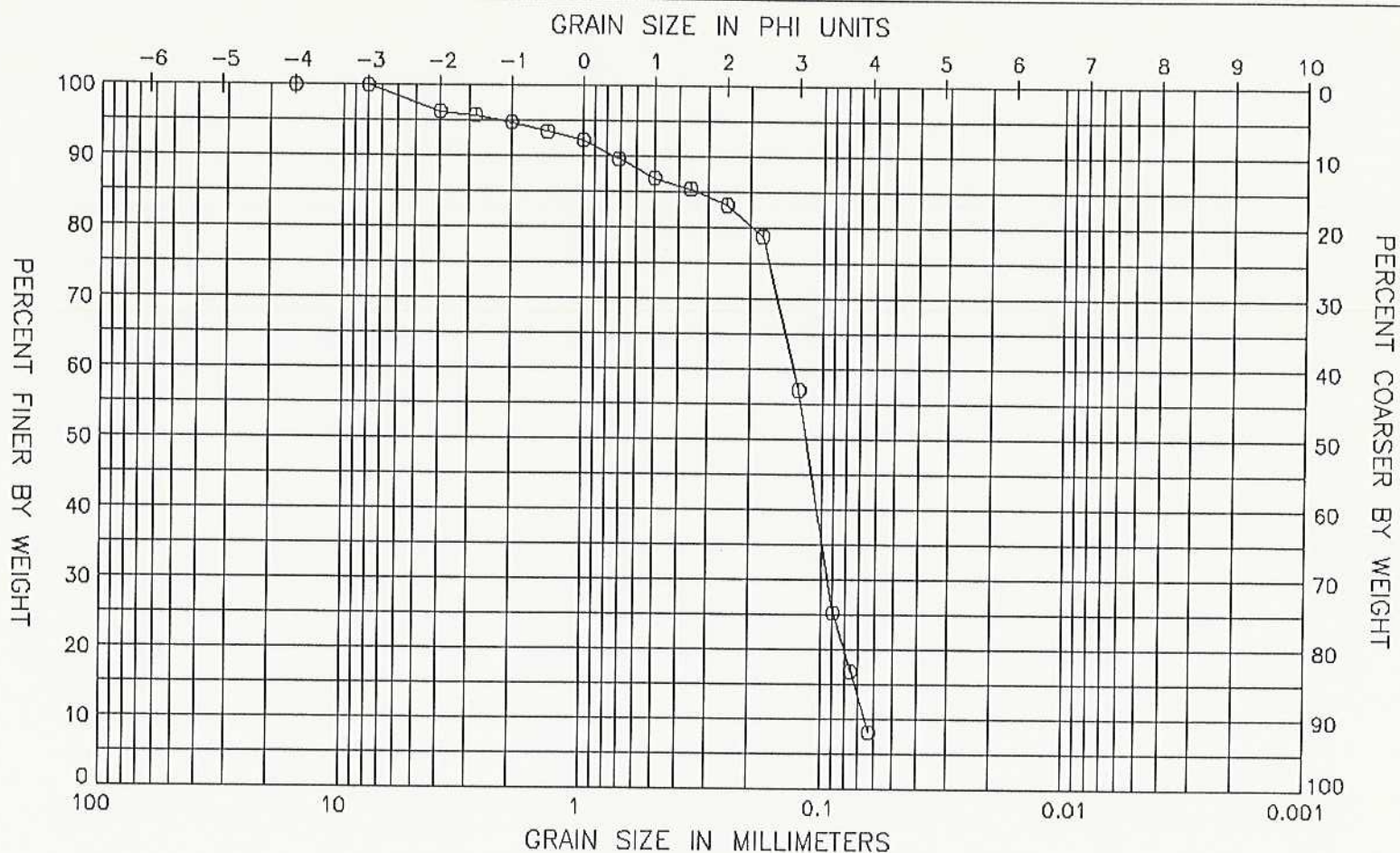
MEAN (PHI): 1.24 SORTING: 2.32
MEAN (mm): .42

DATA FILE NAME: LKVC17S3.TAB

GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995



GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995

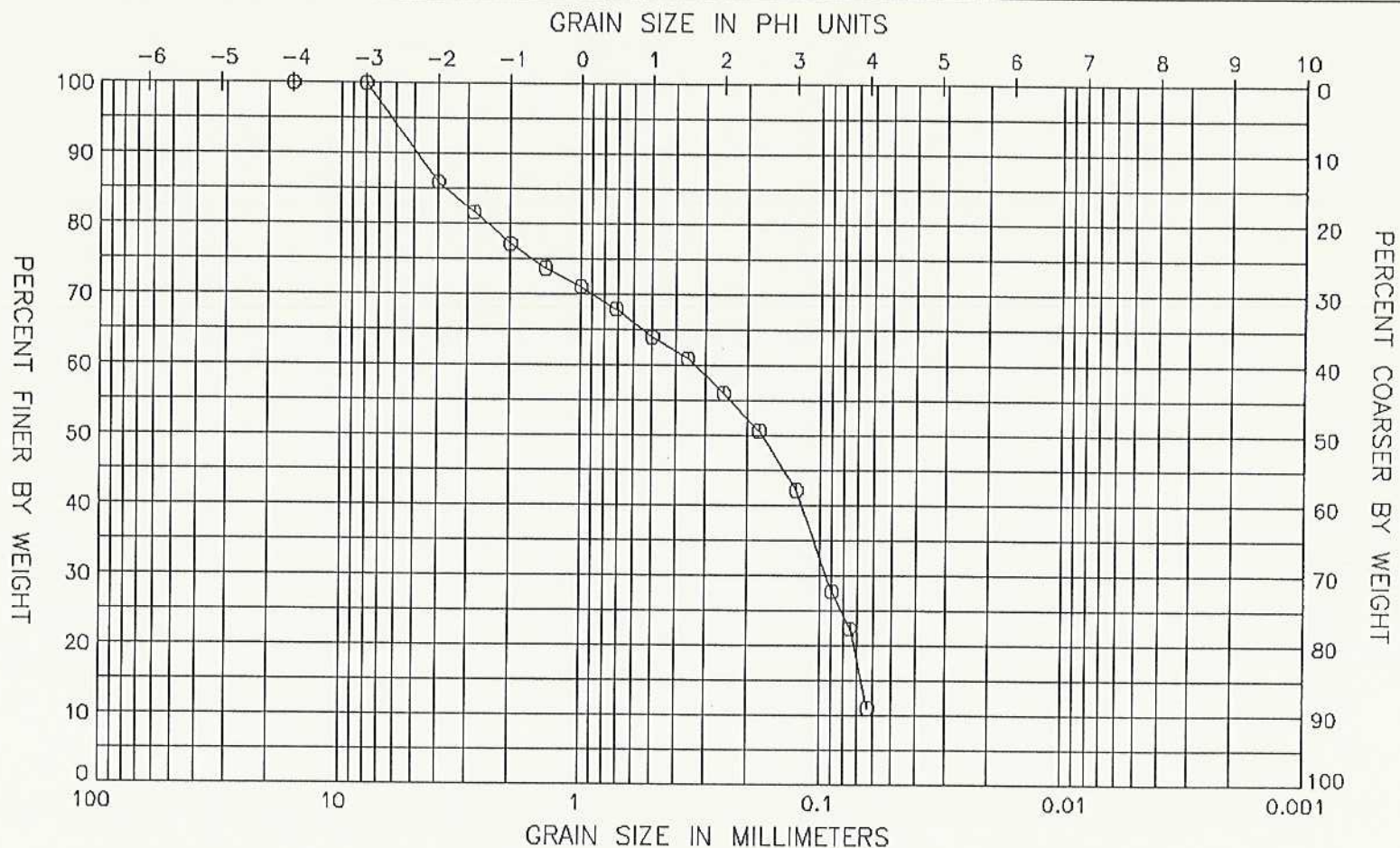


WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

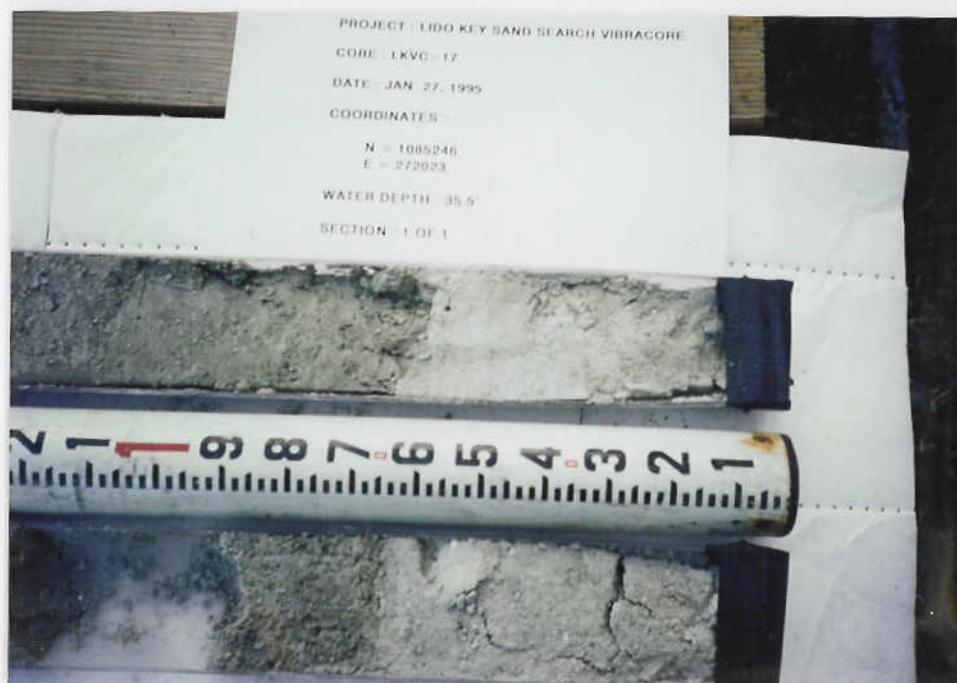
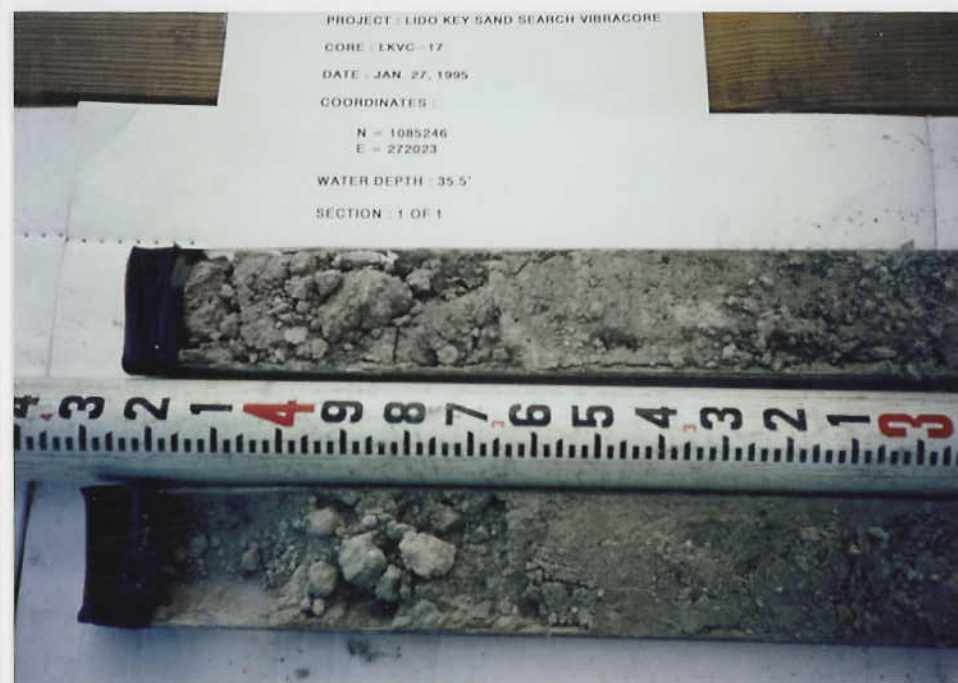
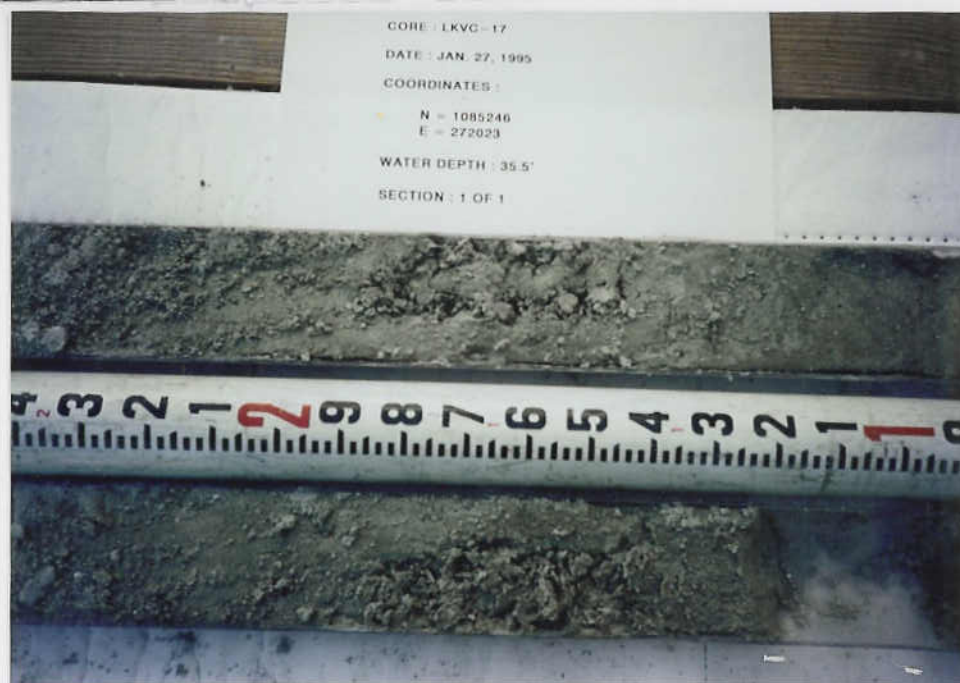
SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
LKVC-17 S20	-37.5	-2.5	SS	0.20	0.12	0.98

GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995



WENTWORTH CLASSIFICATION						
PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
LKVC-17 S3D	-39.1	-4.1	SS	0.43	0.17	2.83



LKVC-17