

VIBRACORE LOG							
PROJECT: LIDO KEY SAND SEARCH BORROW AREA 4 CORE NO: LKVC - 15							
COORDINATES: N = 1085640 E = 271446		DATE: JAN. 27, 1995 START TIME: 1148 END TIME: 1154		WATER DEPTH: 35.8 Ft. NGVD DRILLER: EXMAR CLIENT REP: M. D. ANDREWS			
CORE DIAMETER: 2.5"	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BARREL: 12.0'	35.8'	0.0					
PENETRATION DEPTH: 8.5'							
LENGTH RECOVERED: 7.2'							
LENGTH RETAINED : 7.2'							
SUPPORT VESSEL: EXMAR II							
POSITIONING: DGPS MOTOROLA LGT 1000 / USCG BEACON							
WEATHER:							
WIND:							
DIR: VAR.							
SPEED: LIGHT							
WAVES:							
DIR: VAR.							
HEIGHT: 0 - 1 Ft.							
CURRENT:							
DIR: SOUTH							
SPEED: LIGHT							
ANALYSIS BY: MDA							
ANALYSIS METHOD:							
VISUAL LOGGING							
MECHANICAL SIEVE							
SAND							
SHELLS							
ROCK FRAG							
SHELL HASH							
ROCK							
SILT							
	40.2'	4.4		LT GREENISH GRAY (10Y 7/1) FINE / MEDIUM GRAINED SAND	1 1.0' 36.8	2.49 Phi 0.18 mm 9.9 % SILT (SP - SM)	
		2.5					
				LT GREENISH GRAY (10Y 7/1) FINE / MEDIUM GRAINED SAND	2 3.0' 38.8	2.95 Phi 0.13 mm 18.2 % SILT (SS)	
	40.2'	4.4					
		5.0	@	LT GREENISH GRAY (10Y 7/1) FINE / MEDIUM GRAINED SAND WITH 1 - 2 cm ROCK FRAGMENTS	2 3.0' 40.8	0.67 Phi 0.63 mm 16.7 % SILT (SS)	
	41.3'	5.5	@				
				LT GREENISH GRAY (10Y 8/1) SILT			
	42.4'	6.6	@				
				PALE YELLOW (5Y 8/2) SILT WITH 1 - 2 cm ROCK FRAGMENTS			
	43.0'	7.2	@				
		7.5					
			NOT RECOVERED				
	44.3'	8.5	X X X X X	ROCK			
		10.0					

NOTE: MEAN WAS CALCULATED USING MOMENT METHOD

NOTE: COORDINATE SYSTEM - FLORIDA STATE PLANE NAD 1927

NOTE: CORE WEIGHTED COMPOSITE 0.20 mm

COASTAL PLANNING & ENGINEERING, INC

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

SAMPLE NO.: LKVC-15 S1
SAMPLE ELEV. (FT. NGVD): -36.8
SAMPLE DEPTH (FT.): -1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 67.43
SAMPLE WEIGHT AFTER WASH (GRAMS): 61.42

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	1.15	1.71	98.29
7	-1.5	2.800	1.51	2.24	97.76
10	-1.0	2.000	2.22	3.29	96.71
14	-0.5	1.400	2.91	4.32	95.68
18	0.0	1.000	3.71	5.50	94.50
25	0.5	.710	5.25	7.79	92.21
35	1.0	.500	7.82	11.60	88.40
45	1.5	.355	10.19	15.11	84.89
60	2.0	.250	13.24	19.64	80.36
80	2.5	.180	18.04	26.75	73.25
120	3.0	.125	38.78	57.51	42.49
170	3.5	.090	57.04	84.59	15.41
200	3.75	.075	60.75	90.09	9.91
230	4.0	.063	64.35	95.42	4.58
PAN			67.38	99.93	.07

PHI(5): -.21 PHI(16): 1.60 PHI(25): 2.38
PHI(50): 2.88 PHI(75): 3.32 PHI(84): 3.49
PHI(95): 3.98

SIEVE LOSS(g): .05 SILT/CLAY: 9.91%
SKEWNESS: -1.987 KURTOSIS: 1.816

GRAPHIC METHOD

MEAN (PHI): 2.35 SORTING: .95
MEAN (mm): .20 MEDIAN (mm): .14
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.49 SORTING: 1.27
MEAN (mm): .18

DATA FILE NAME: LKVC15S1.TAB

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

SAMPLE NO.: LKVC-15 S2
SAMPLE ELEV. (FT. NGVD): -38.8
SAMPLE DEPTH (FT.): -3.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 63.66
SAMPLE WEIGHT AFTER WASH (GRAMS): 53.23

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	.27	99.73
7	-1.5	2.800	.28	.44	99.56
10	-1.0	2.000	.56	.88	99.12
14	-0.5	1.400	.89	1.40	98.60
18	0.0	1.000	1.23	1.93	98.07
25	0.5	.710	1.91	3.00	97.00
35	1.0	.500	2.93	4.60	95.40
45	1.5	.355	3.71	5.83	94.17
60	2.0	.250	4.90	7.70	92.30
80	2.5	.180	7.83	12.30	87.70
120	3.0	.125	23.15	36.37	63.63
170	3.5	.090	45.33	71.21	28.79
200	3.75	.075	52.07	81.79	18.21
230	4.0	.063	58.26	91.53	8.47
PAN			63.59	99.89	.11

PHI(5): 1.16 PHI(16): 2.58 PHI(25): 2.76
PHI(50): 3.20 PHI(75): 3.59 PHI(84): 3.81
PHI(95): 4.09

SIEVE LOSS(g): .07 SILT/CLAY: 18.21%
SKEWNESS: -1.140 KURTOSIS: 1.453

GRAPHIC METHOD

MEAN (PHI): 2.97 SORTING: .61
MEAN (mm): .13 MEDIAN (mm): .11
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.95 SORTING: .90
MEAN (mm): .13

DATA FILE NAME: LKVC15S2.TAB

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

SAMPLE NO.: LKVC-15 S3
SAMPLE ELEV. (FT. NGVD): -40.8
SAMPLE DEPTH (FT.): -5.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 70.57
SAMPLE WEIGHT AFTER WASH (GRAMS): 59.19

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	4.18	5.92	94.08
7	-1.5	2.800	9.69	13.73	86.27
10	-1.0	2.000	14.98	21.23	78.77
14	-0.5	1.400	20.86	29.56	70.44
18	0.0	1.000	26.78	37.95	62.05
25	0.5	.710	33.81	47.91	52.09
35	1.0	.500	39.55	56.04	43.96
45	1.5	.355	42.61	60.38	39.62
60	2.0	.250	46.13	65.37	34.63
80	2.5	.180	49.17	69.68	30.32
120	3.0	.125	52.56	74.48	25.52
170	3.5	.090	57.08	80.88	19.12
200	3.75	.075	58.80	83.32	16.68
230	4.0	.063	64.74	91.74	8.26
PAN			70.48	99.87	.13

PHI(5): -2.16 PHI(16): -1.35 PHI(25): -.77
PHI(50): .63 PHI(75): 3.04 PHI(84): 3.77
PHI(95): 4.10

SIEVE LOSS(g): .09 SILT/CLAY: 16.68%
SKEWNESS: .684 KURTOSIS: .672

GRAPHIC METHOD

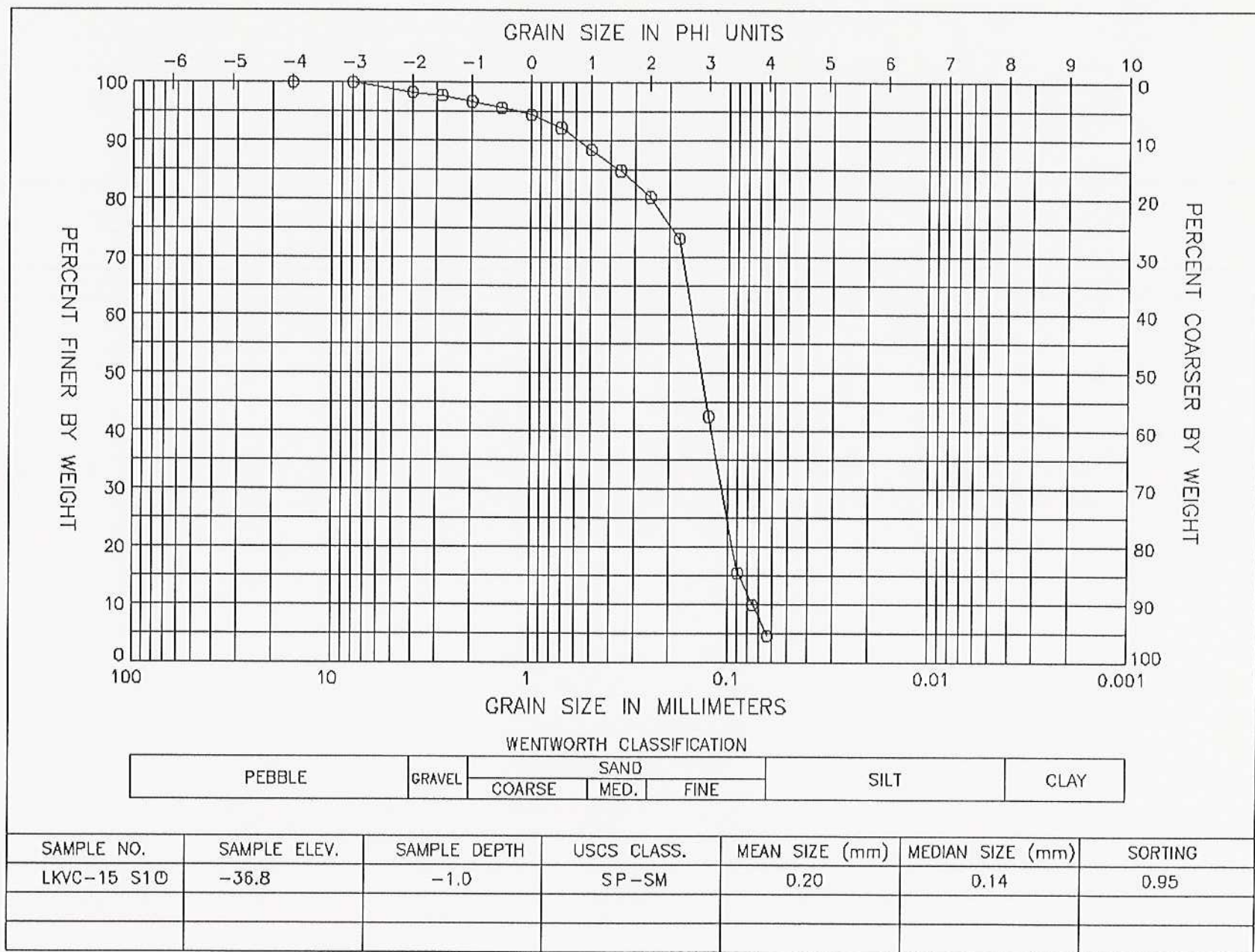
MEAN (PHI): 1.00 SORTING: 2.56
MEAN (mm): .50 MEDIAN (mm): .65
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): .67 SORTING: 1.95
MEAN (mm): .63

DATA FILE NAME: LKVC15S3.TAB

GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995



GRAIN SIZE IN PHI UNITS

PERCENT FINER BY WEIGHT

PERCENT COARSER BY WEIGHT

GRAIN SIZE IN MILLIMETERS

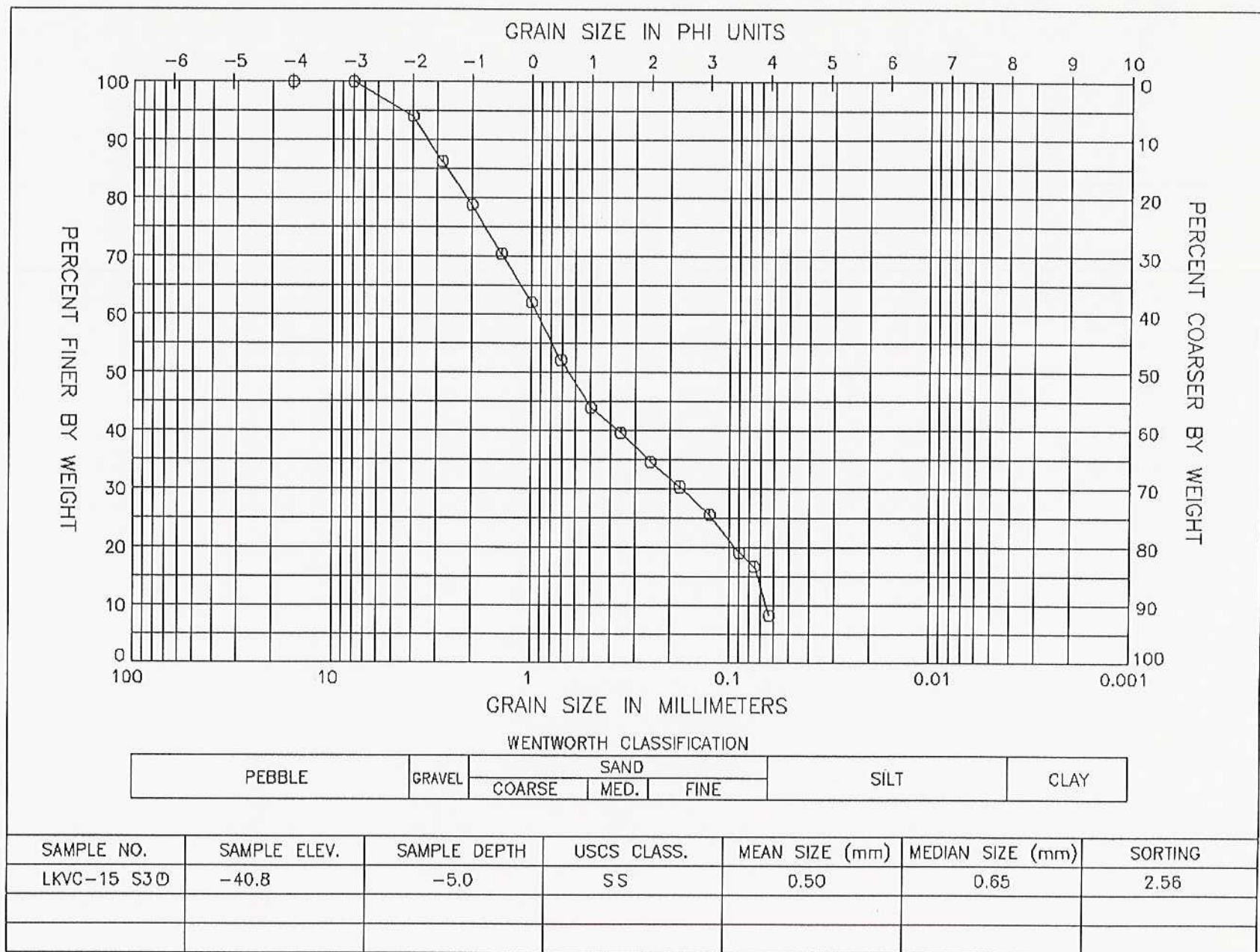
WENTWORTH CLASSIFICATION

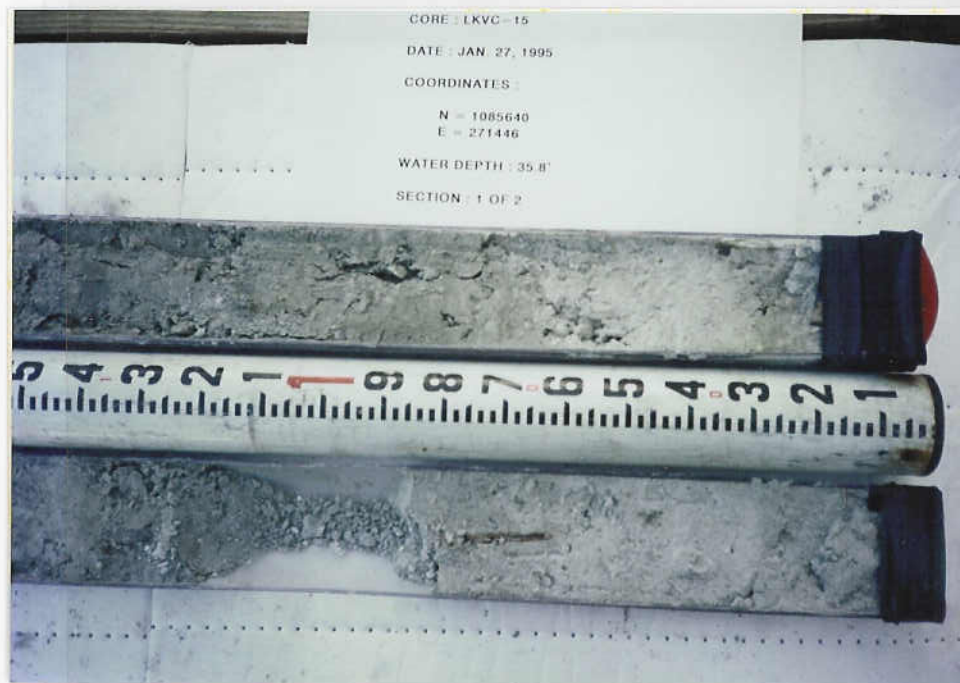
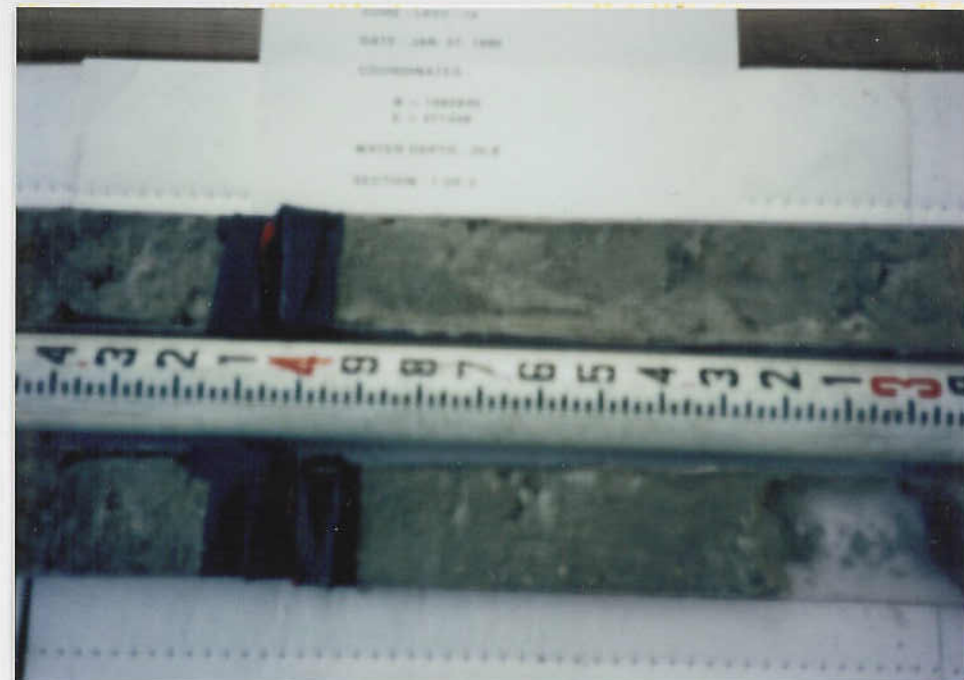
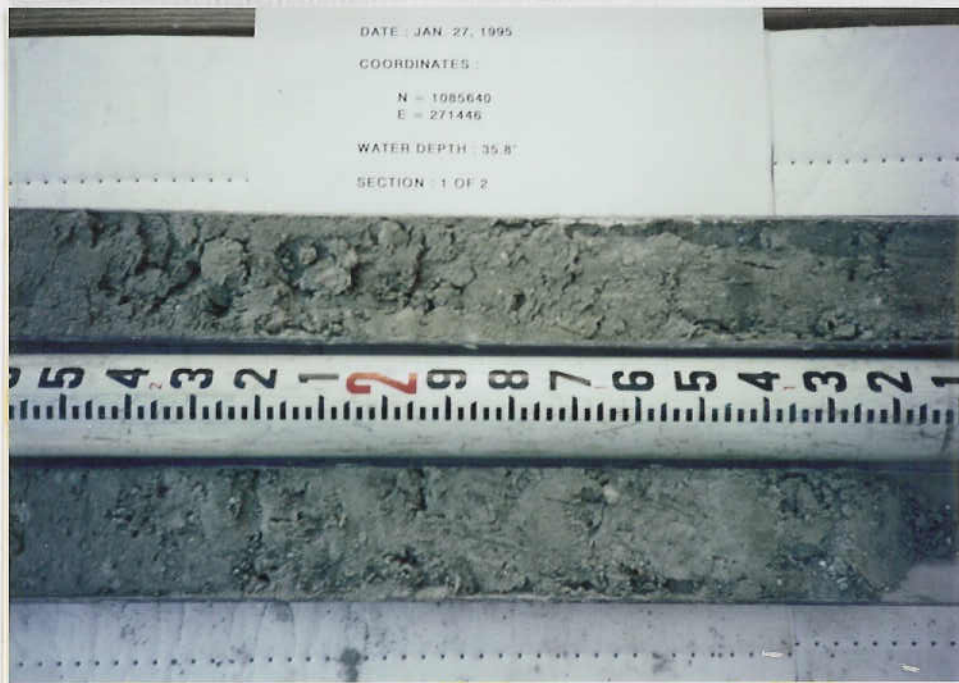
PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
LKVC-15 S20	-38.8	-3.0	SS	0.13	0.11	0.61

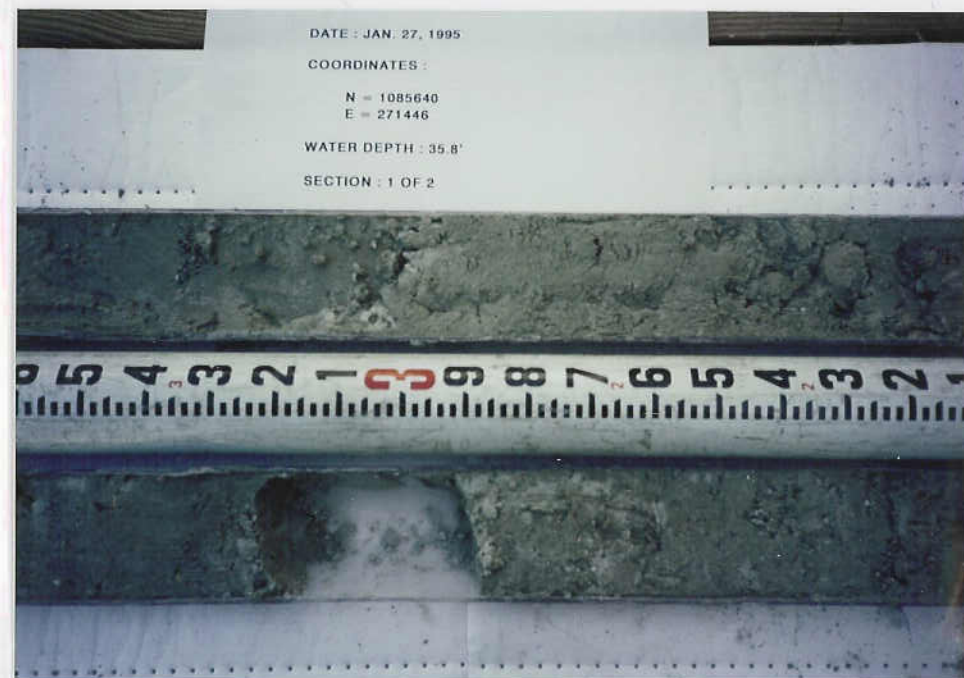
SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
LKVC-15 S20	-38.8	-3.0	SS	0.13	0.11	0.61

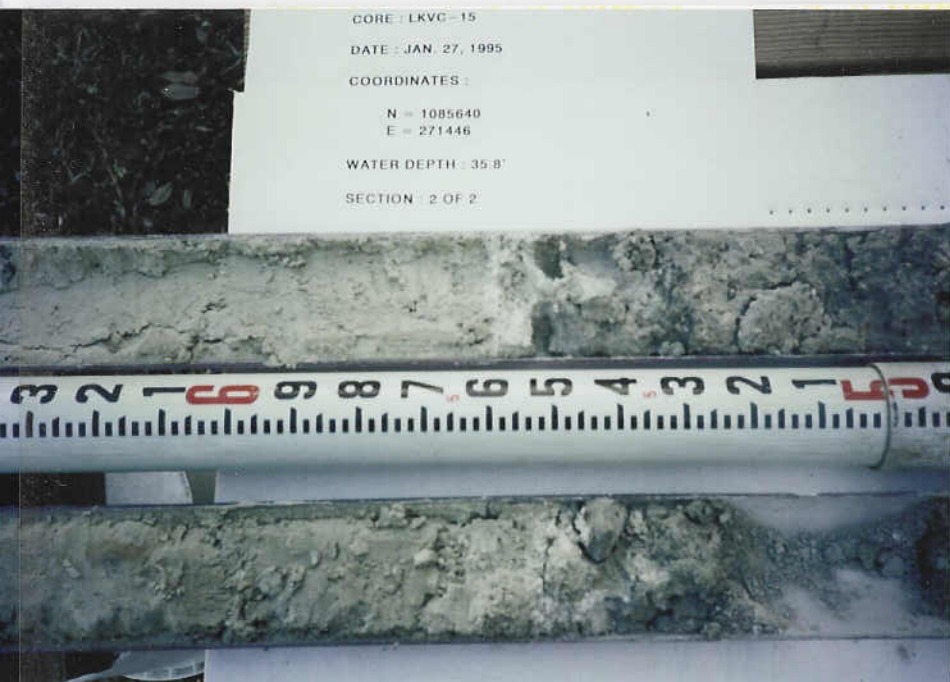
GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995





LKVC-15





LKVC-12

