

VIBRACORE LOG						
PROJECT: LIDO KEY SAND SEARCH BORROW AREA 1 CORE NO: LKVC - 2						
COORDINATES: N = 1074363 E = 278935	DATE: JAN. 26, 1995 START TIME: 1253 END TIME: 1304	WATER DEPTH: 33.0 Ft. NGVD DRILLER: EXMAR CLIENT RE P : M. D. ANDREWS				
CORE DIAMETER: 2.5" LENGTH OF BARREL: 12.0' PENETRATION DEPTH: 6.0' LENGTH RECOVERED: 5.3' LENGTH RETAINED : 5.3'	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
	33.0'	0.0				
			~ ~ ~ ~	GRAY (N6), FINE / MEDIUM GRAINED SAND WITH CALCAROUS SHELL HASH	1 1.0'	1.46 Phi 0.36 mm 1.7 % SILT (SP)
			~ ~ ~ ~	1.5 1.7 SILT LAYER	34.0'	
SUPPORT VESSEL: EXMAR II	35.0'	2.0				
POSITIONING: DGPS MOTOROLA LGT 1000 / USCG BEACON		2.5				
WEATHER:						
WIND:						
DIR : NW						
SPEED : 10 Kt						
WAVES:						
DIR : NW						
HEIGHT: 1 - 2 Ft.						
CURRENT:						
DIR : SOUTH						
SPEED : LIGHT						
	38.3'	5.0		LIGHT GREENISH GRAY (10Y 7/1) FINE TO MEDIUM GRAINED SAND	2 3.5'	2.67 Phi 0.16 mm 8.4 % SILT (SP - SM)
					36.5'	
	38.3'	5.3			3	2.73 Phi 0.15 mm 12.7 % SILT (SS)
					5.0'	
	39.0'	6.0	NOT RECOVERED		38.0'	
			X X X X X	ROCK		
ANALYSIS BY : MDA						
ANALYSIS METHOD: VISUAL LOGGING MECHANICAL SIEVE						
SAND						
SHELLS						
ROCK FRAG.						
SHELL HASH						
ROCK						
SILT						
		7.5				
		10.0				

NOTE: MEAN WAS CALCULATED USING MOMENT METHOD
 NOTE: COORDINATE SYSTEM - FLORIDA STATE PLANE NAD 1927
 NOIE : CORE WEIGHTED COMPOSITE 0.22 mm

COASTAL PLANNING & ENGINEERING, INC

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

SAMPLE NO.: LKVC-2 S#1
SAMPLE ELEV. (FT. NGVD): -34.0
SAMPLE DEPTH (FT.): -1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 69.62
SAMPLE WEIGHT AFTER WASH (GRAMS): 68.48

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	.29	.42	99.58
7	-1.5	2.800	.75	1.08	98.92
10	-1.0	2.000	1.59	2.28	97.72
14	-0.5	1.400	2.91	4.18	95.82
18	0.0	1.000	5.32	7.64	92.36
25	0.5	.710	11.56	16.60	83.40
35	1.0	.500	23.07	33.14	66.86
45	1.5	.355	32.05	46.04	53.96
60	2.0	.250	43.44	62.40	37.60
80	2.5	.180	59.75	85.82	14.18
120	3.0	.125	67.61	97.11	2.89
170	3.5	.090	68.41	98.26	1.74
200	3.75	.075	68.44	98.31	1.69
230	4.0	.063	69.02	99.14	.86
PAN			69.59	99.96	.04

PHI(5): -.38 PHI(16): .47 PHI(25): .75
PHI(50): 1.62 PHI(75): 2.27 PHI(84): 2.46
PHI(95): 2.91

SIEVE LOSS(g): .03 SILT/CLAY: 1.69%
SKEWNESS: -.717 KURTOSIS: .889

GRAPHIC METHOD

MEAN (PHI): 1.41 SORTING: 1.00
MEAN (mm): .38 MEDIAN (mm): .33
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.46 SORTING: 1.04
MEAN (mm): .36

DATA FILE NAME: LKVC2-S1.TAB

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

SAMPLE NO.: LKVC-2 S#2
SAMPLE ELEV. (FT. NGVD): -36.5
SAMPLE DEPTH (FT.): -3.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 75.73
SAMPLE WEIGHT AFTER WASH (GRAMS): 70.11

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	.80	1.06	98.94
7	-1.5	2.800	1.21	1.60	98.40
10	-1.0	2.000	1.48	1.95	98.05
14	-0.5	1.400	1.93	2.55	97.45
18	0.0	1.000	2.43	3.21	96.79
25	0.5	.710	3.22	4.25	95.75
35	1.0	.500	4.37	5.77	94.23
45	1.5	.355	5.42	7.16	92.84
60	2.0	.250	8.33	11.00	89.00
80	2.5	.180	18.84	24.88	75.12
120	3.0	.125	44.43	58.67	41.33
170	3.5	.090	64.65	85.37	14.63
200	3.75	.075	69.34	91.56	8.44
230	4.0	.063	72.74	96.05	3.95
PAN			75.67	99.92	.08

PHI(5): .75 PHI(16): 2.18 PHI(25): 2.50
PHI(50): 2.87 PHI(75): 3.31 PHI(84): 3.47
PHI(95): 3.94

SIEVE LOSS(g): .06 SILT/CLAY: 8.44%
SKEWNESS: -1.056 KURTOSIS: 1.629

GRAPHIC METHOD

MEAN (PHI): 2.64 SORTING: .65
MEAN (mm): .16 MEDIAN (mm): .14
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.67 SORTING: 1.01
MEAN (mm): .16

DATA FILE NAME: LKVC2-S2.TAB

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

SAMPLE NO.: LKVC-2 S#3
SAMPLE ELEV. (FT. NGVD): -38.0
SAMPLE DEPTH (FT.): -5.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 80.97
SAMPLE WEIGHT AFTER WASH (GRAMS): 71.93

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	.14	.17	99.83
7	-1.5	2.800	.50	.62	99.38
10	-1.0	2.000	1.04	1.28	98.72
14	-0.5	1.400	1.89	2.33	97.67
18	0.0	1.000	2.86	3.53	96.47
25	0.5	.710	4.49	5.55	94.45
35	1.0	.500	6.55	8.09	91.91
45	1.5	.355	7.82	9.66	90.34
60	2.0	.250	10.57	13.05	86.95
80	2.5	.180	18.19	22.47	77.53
120	3.0	.125	37.90	46.81	53.19
170	3.5	.090	63.16	78.00	22.00
200	3.75	.075	70.70	87.32	12.68
230	4.0	.063	76.24	94.16	5.84
PAN			80.91	99.93	.07

PHI(5): .36 PHI(16): 2.16 PHI(25): 2.55
PHI(50): 3.05 PHI(75): 3.45 PHI(84): 3.66
PHI(95): 4.03

SIEVE LOSS(g): .06 SILT/CLAY: 12.68%
SKEWNESS: -1.707 KURTOSIS: 1.670

GRAPHIC METHOD

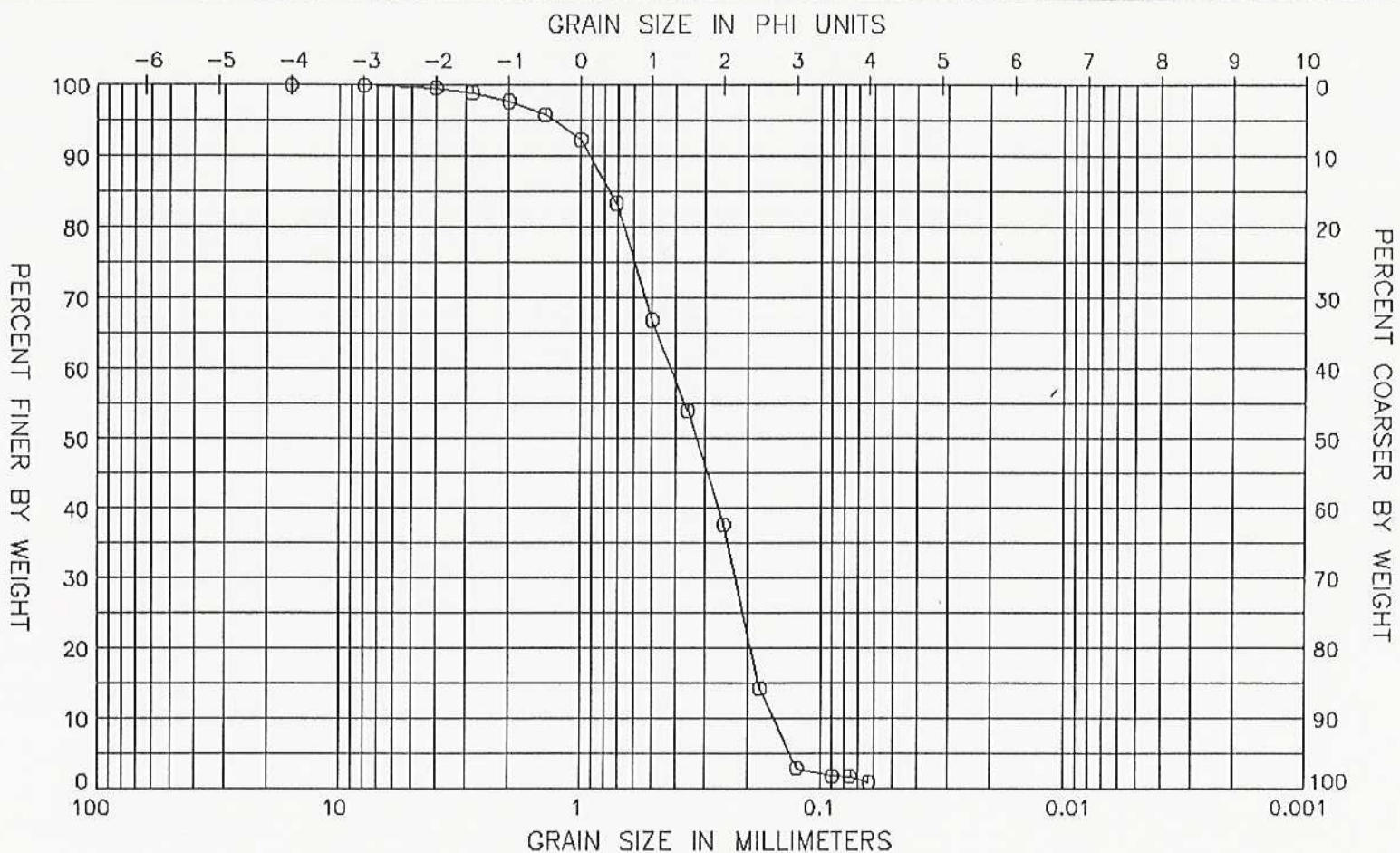
MEAN (PHI): 2.65 SORTING: .75
MEAN (mm): .16 MEDIAN (mm): .12
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.73 SORTING: 1.05
MEAN (mm): .15

DATA FILE NAME: LKVC2-S3.TAB

GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995

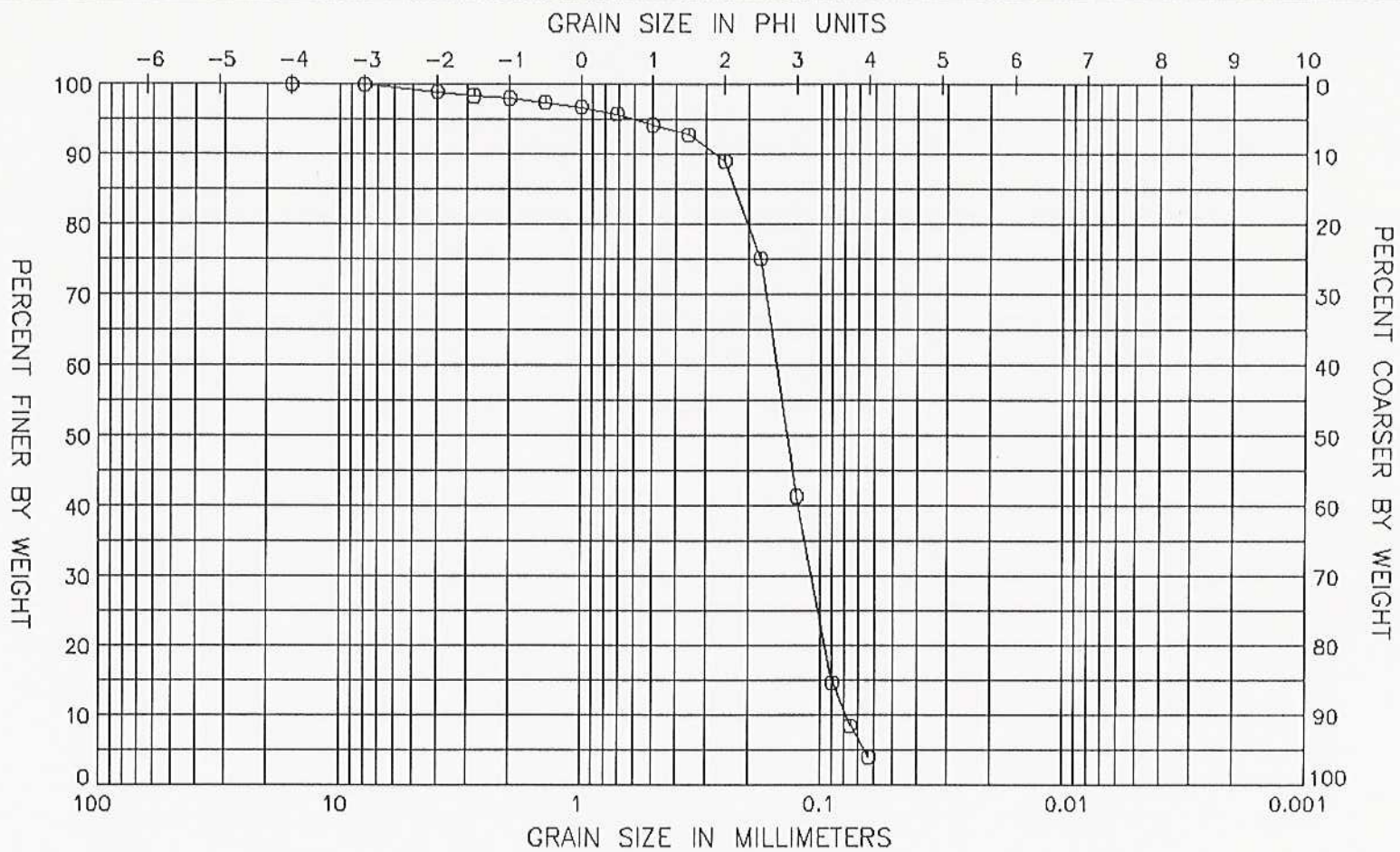


WENTWORTH CLASSIFICATION

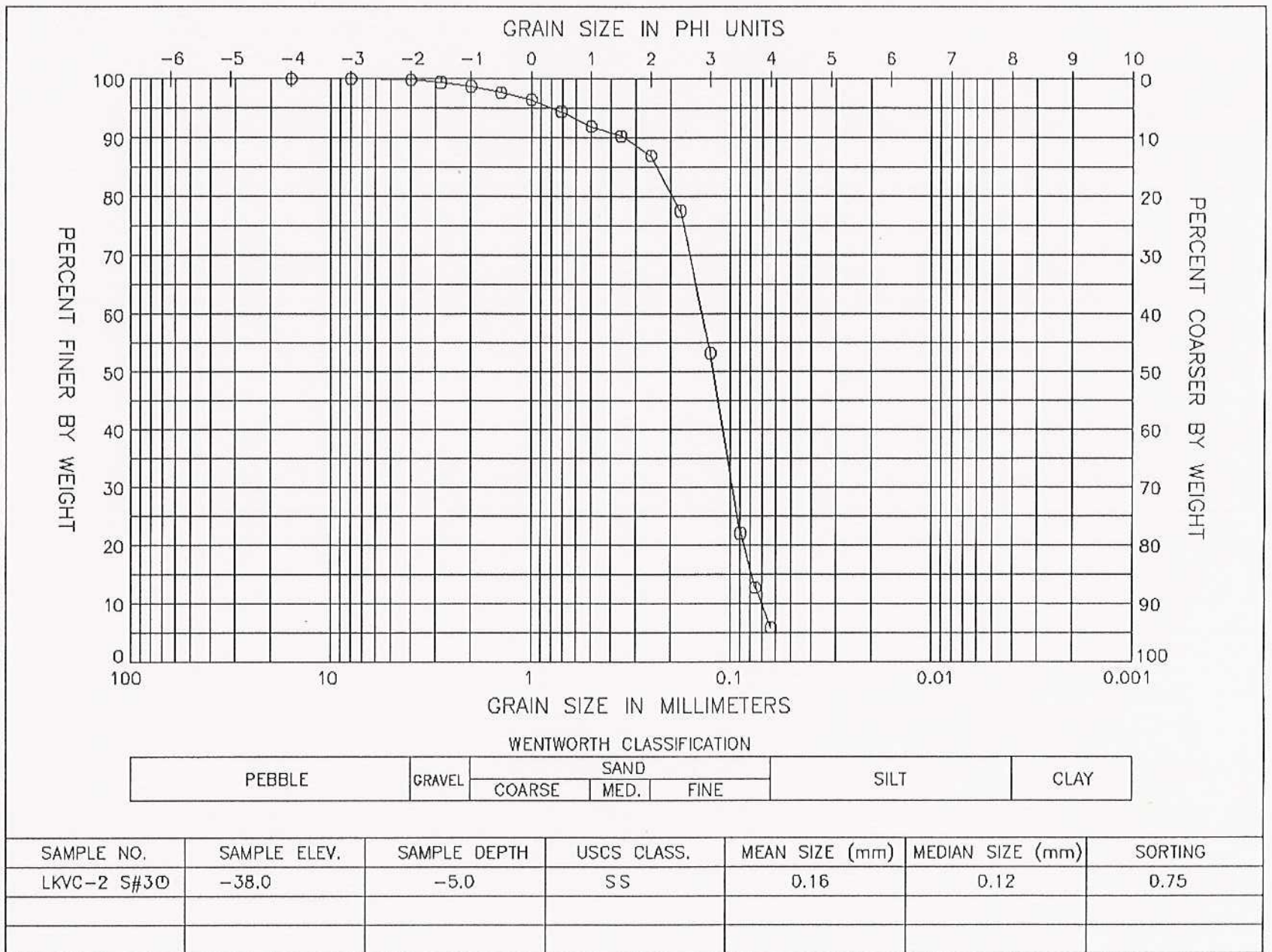
PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

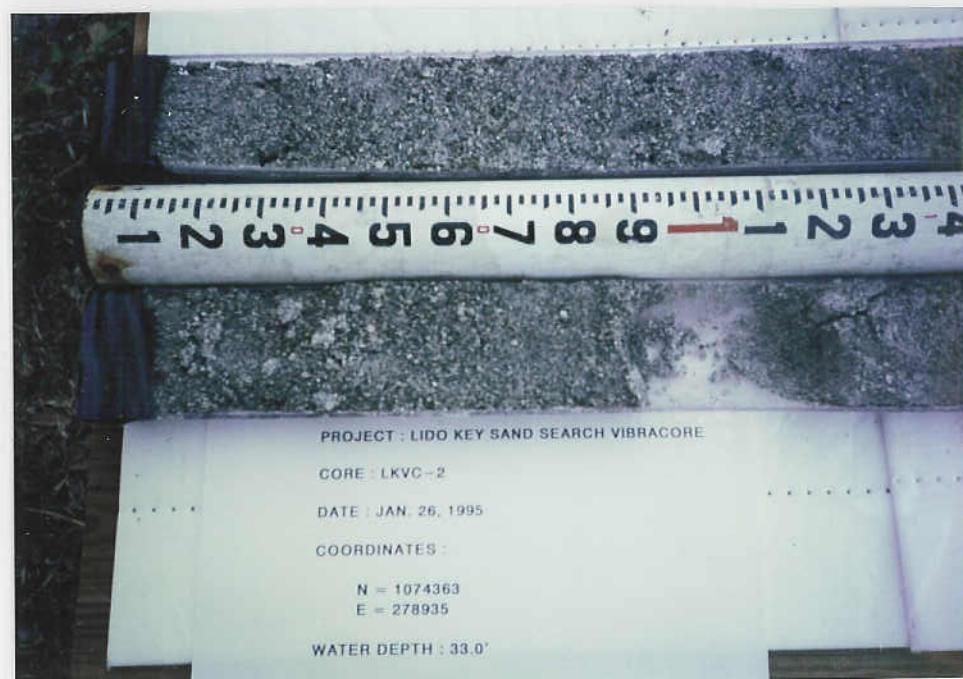
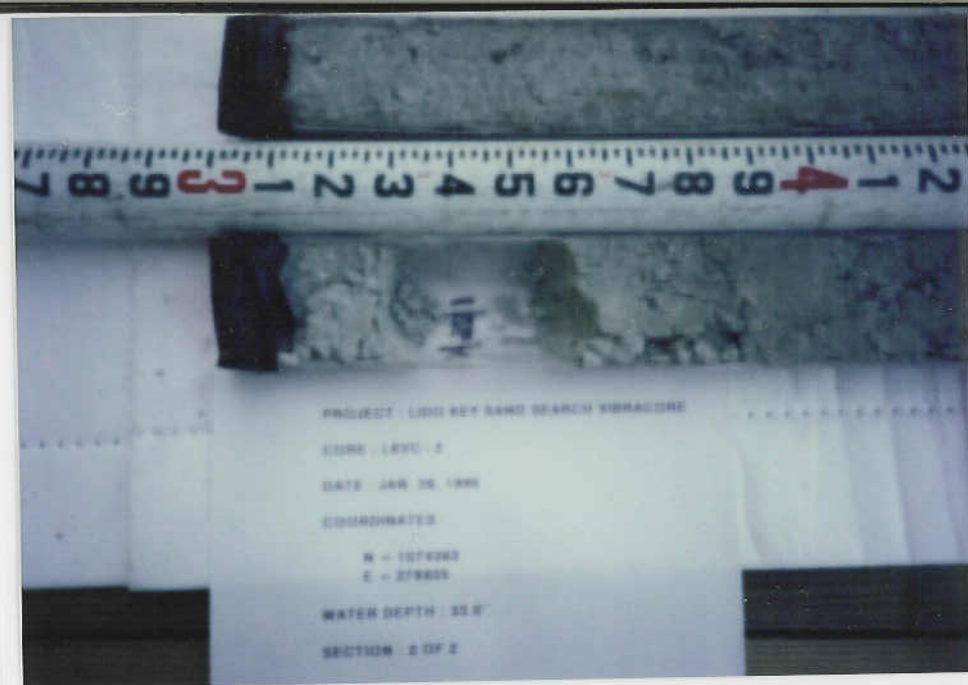
SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
LKYC-2 S#10	-34.0	-1.0	SP	0.38	0.33	1.00

GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995

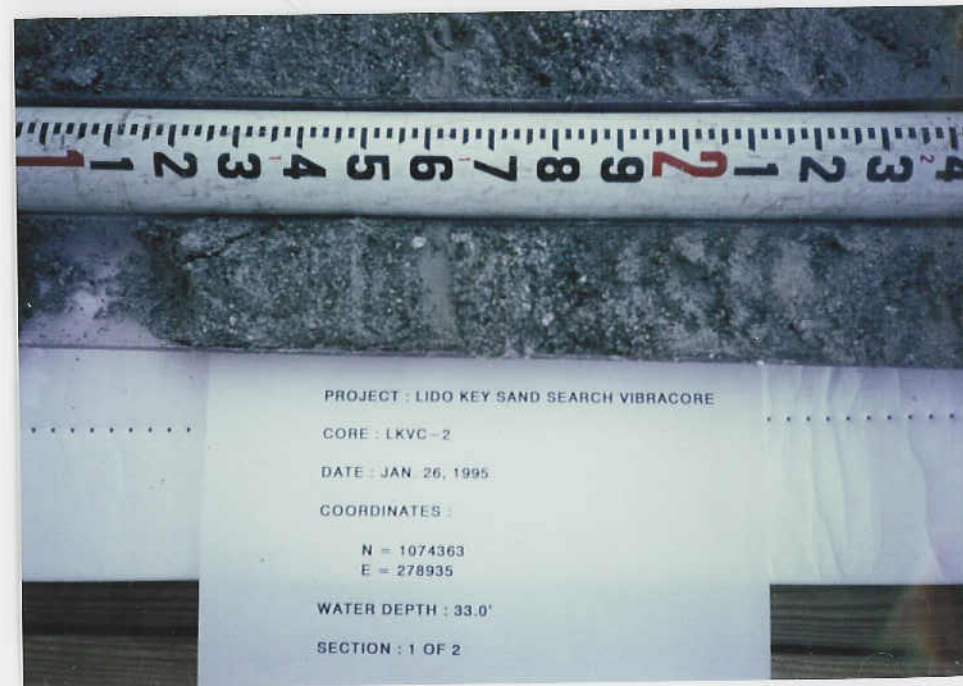


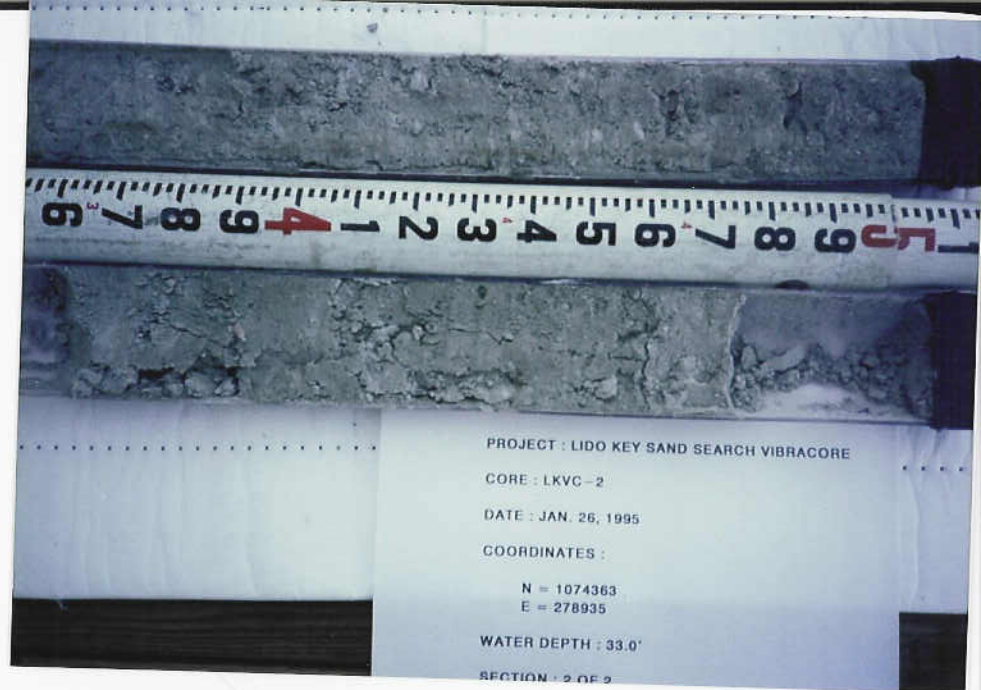
GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995





LKVC-2





PROJECT : LIDO KEY SAND SEARCH VIBRACORE

CORE : LKVC-2

DATE : JAN. 26, 1995

COORDINATES :

N = 1074363

E = 278935

WATER DEPTH : 33.0'

SECTION : 2 OF 2