

VIBRACORE LOG						
PROJECT: LIDO KEY SAND SEARCH BORROW AREA 1 CORE NO.: LKVC - 9						
<u>COORDINATES:</u>		DATE: JAN. 26, 1995		WATER DEPTH: 34.0 Ft. NGVD		
N = 1076054		START TIME: 1609		DRILLER: EXMAR		
E = 280840		END TIME: 1614		CLIENT REP : M. D. ANDREWS		
CORE DIAMETER: 2.5"	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BARREL: 12.0'	34.0'	0.0				
PENETRATION DEPTH: 9.5'				LIGHT GREENISH GRAY (10Y 8/1) FINE / MEDIUM GRAINED SAND	1 1.0' 35.0	0.96 Phi 0.51 mm 3.0 % SILT (SP)
LENGTH RECOVERED: 4.8'						
LENGTH RETAINED : 4.8'						
SUPPORT VESSEL: EXMAR II	36.5'	2.5			2 2.5' 36.5	2.64 Phi 0.16 mm 15.4 % SILT (SS)
POSITIONING: DGPS MOTOROLA LGT 1000 / USCG BEACON				LIGHT GREENISH GRAY (10Y 7/1) FINE / MEDIUM GRAINED SAND		
<u>WEATHER :</u>						
<u>WIND :</u>						
DIR : NORTH						
SPEED : 10 - 15 Kt						
<u>WAVES :</u>						
DIR : NW					3 4.5' 38.5	1.96 Phi 0.26 mm 10 .9% SILT (SP - SM)
HEIGHT: 1 - 2 Ft.	38.8'	4.8				
<u>CURRENT :</u>						
DIR : SOUTH						
SPEED : MODERATE						
ANALYSIS BY : MDA						
<u>ANALYSIS METHOD:</u>						
VISUAL LOGGING						
MECHANICAL SIEVE						
SAND						
SHELLS						
ROCK FRAG.						
SHELL HASH						
ROCK	43.5'	9.5		X X X		
		10.0		X X		
				NOT RECOVERED		
		7.5				

NOTE : CORE WEIGHTED COMPOSITE 0.28 mm

COASTAL PLANNING & ENGINEERING, INC

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

SAMPLE NO.: LKVC-9 S#1
SAMPLE ELEV. (FT. NGVD): -35.0
SAMPLE DEPTH (FT.): -1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 63.25
SAMPLE WEIGHT AFTER WASH (GRAMS): 61.48

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	.45	.71	99.29
7	-1.5	2.800	1.44	2.28	97.72
10	-1.0	2.000	3.43	5.42	94.58
14	-0.5	1.400	7.12	11.26	88.74
18	0.0	1.000	12.67	20.03	79.97
25	0.5	.710	23.83	37.68	62.32
35	1.0	.500	37.31	58.99	41.01
45	1.5	.355	43.09	68.13	31.87
60	2.0	.250	47.00	74.31	25.69
80	2.5	.180	51.35	81.19	18.81
120	3.0	.125	57.43	90.80	9.20
170	3.5	.090	60.85	96.21	3.79
200	3.75	.075	61.38	97.04	2.96
230	4.0	.063	62.32	98.52	1.48
PAN			63.22	99.95	.05

PHI(5): -1.07 PHI(16): -.23 PHI(25): .14
PHI(50): .79 PHI(75): 2.05 PHI(84): 2.65
PHI(95): 3.39

SIEVE LOSS(g): .03 SILT/CLAY: 2.96%
SKEWNESS: .743 KURTOSIS: .956

GRAPHIC METHOD

MEAN (PHI): 1.11 SORTING: 1.44
MEAN (mm): .46 MEDIAN (mm): .58
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): .97 SORTING: 1.31
MEAN (mm): .51

DATA FILE NAME: LKVC9-S1.TAB

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

SAMPLE NO.: LKVC-9 S#2
SAMPLE ELEV. (FT. NGVD): -36.5
SAMPLE DEPTH (FT.): -2.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 57.80
SAMPLE WEIGHT AFTER WASH (GRAMS): 49.42

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	.54	.93	99.07
7	-1.5	2.800	1.23	2.13	97.87
10	-1.0	2.000	2.22	3.84	96.16
14	-0.5	1.400	3.17	5.48	94.52
18	0.0	1.000	3.88	6.71	93.29
25	0.5	.710	4.74	8.20	91.80
35	1.0	.500	5.75	9.95	90.05
45	1.5	.355	6.57	11.37	88.63
60	2.0	.250	8.24	14.26	85.74
80	2.5	.180	12.41	21.47	78.53
120	3.0	.125	25.40	43.94	56.06
170	3.5	.090	43.86	75.88	24.12
200	3.75	.075	48.89	84.58	15.42
230	4.0	.063	53.51	92.58	7.42
PAN			57.73	99.88	.12

PHI(5): -.65 PHI(16): 2.12 PHI(25): 2.58
PHI(50): 3.09 PHI(75): 3.49 PHI(84): 3.73
PHI(95): 4.08

SIEVE LOSS(g): .07 SILT/CLAY: 15.42%
SKEWNESS: -2.761 KURTOSIS: 2.133

GRAPHIC METHOD

MEAN (PHI): 2.48 SORTING: .81
MEAN (mm): .18 MEDIAN (mm): .12
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.64 SORTING: 1.30
MEAN (mm): .16

DATA FILE NAME: LKVC9-S2.TAB

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

SAMPLE NO.: LKVC-9 S#3
SAMPLE ELEV. (FT. NGVD): -38.5
SAMPLE DEPTH (FT.): -4.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 52.05
SAMPLE WEIGHT AFTER WASH (GRAMS): 46.66

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	.78	1.50	98.50
7	-1.5	2.800	1.34	2.57	97.43
10	-1.0	2.000	2.16	4.15	95.85
14	-0.5	1.400	3.11	5.98	94.02
18	0.0	1.000	4.46	8.57	91.43
25	0.5	.710	7.43	14.27	85.73
35	1.0	.500	11.96	22.98	77.02
45	1.5	.355	15.18	29.16	70.84
60	2.0	.250	20.08	38.58	61.42
80	2.5	.180	27.59	53.01	46.99
120	3.0	.125	37.86	72.74	27.26
170	3.5	.090	44.73	85.94	14.06
200	3.75	.075	46.40	89.15	10.85
230	4.0	.063	49.26	94.65	5.35
PAN			51.99	99.88	.12

PHI(5): -.77 PHI(16): .60 PHI(25): 1.16
PHI(50): 2.40 PHI(75): 3.09 PHI(84): 3.43
PHI(95): 4.02

SIEVE LOSS(g): .06 SILT/CLAY: 10.85%
SKEWNESS: -1.543 KURTOSIS: 1.020

GRAPHIC METHOD

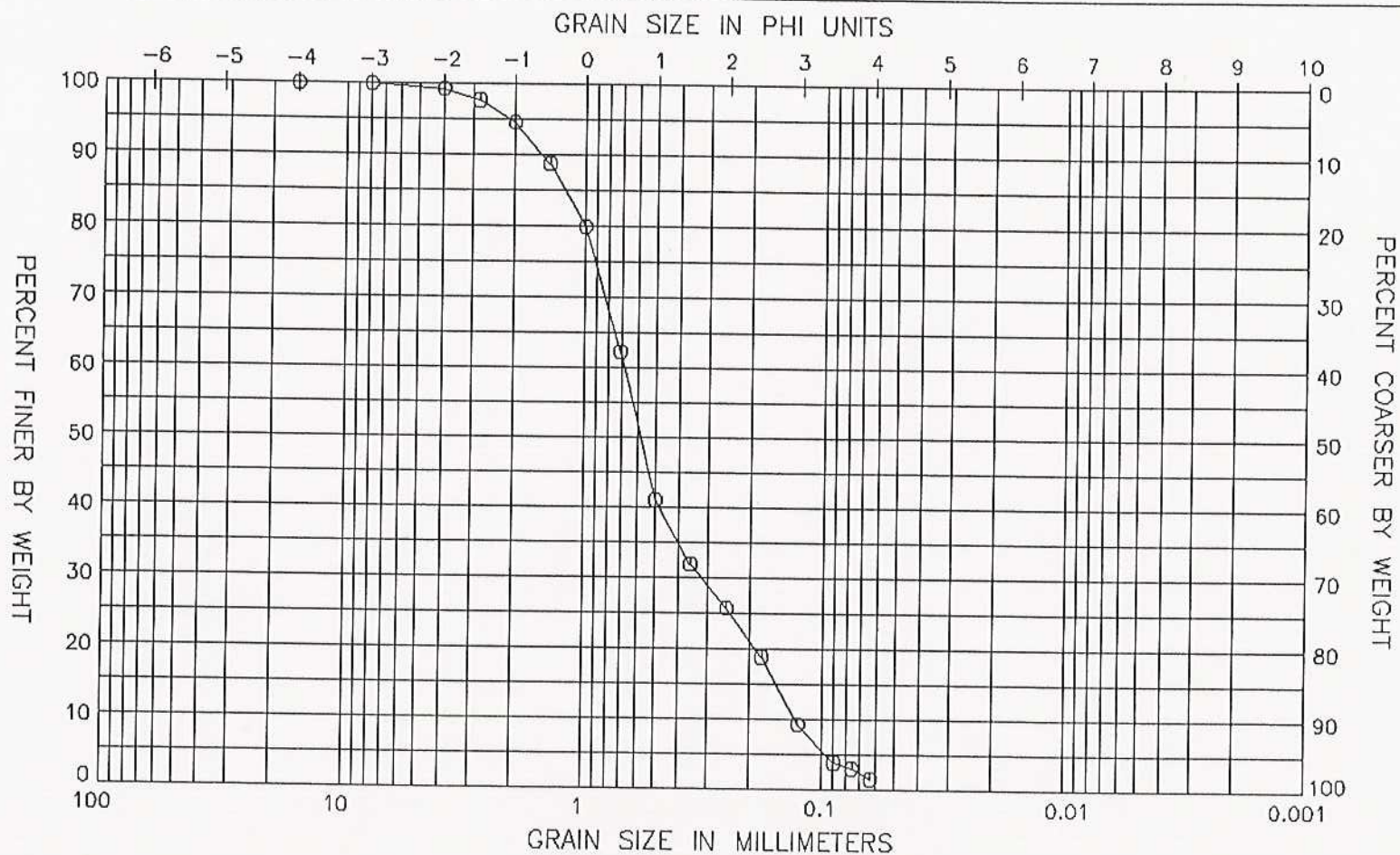
MEAN (PHI): 1.93 SORTING: 1.41
MEAN (mm): .26 MEDIAN (mm): .19
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.96 SORTING: 1.40
MEAN (mm): .26

DATA FILE NAME: LKVC9-S3.TAB

GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995

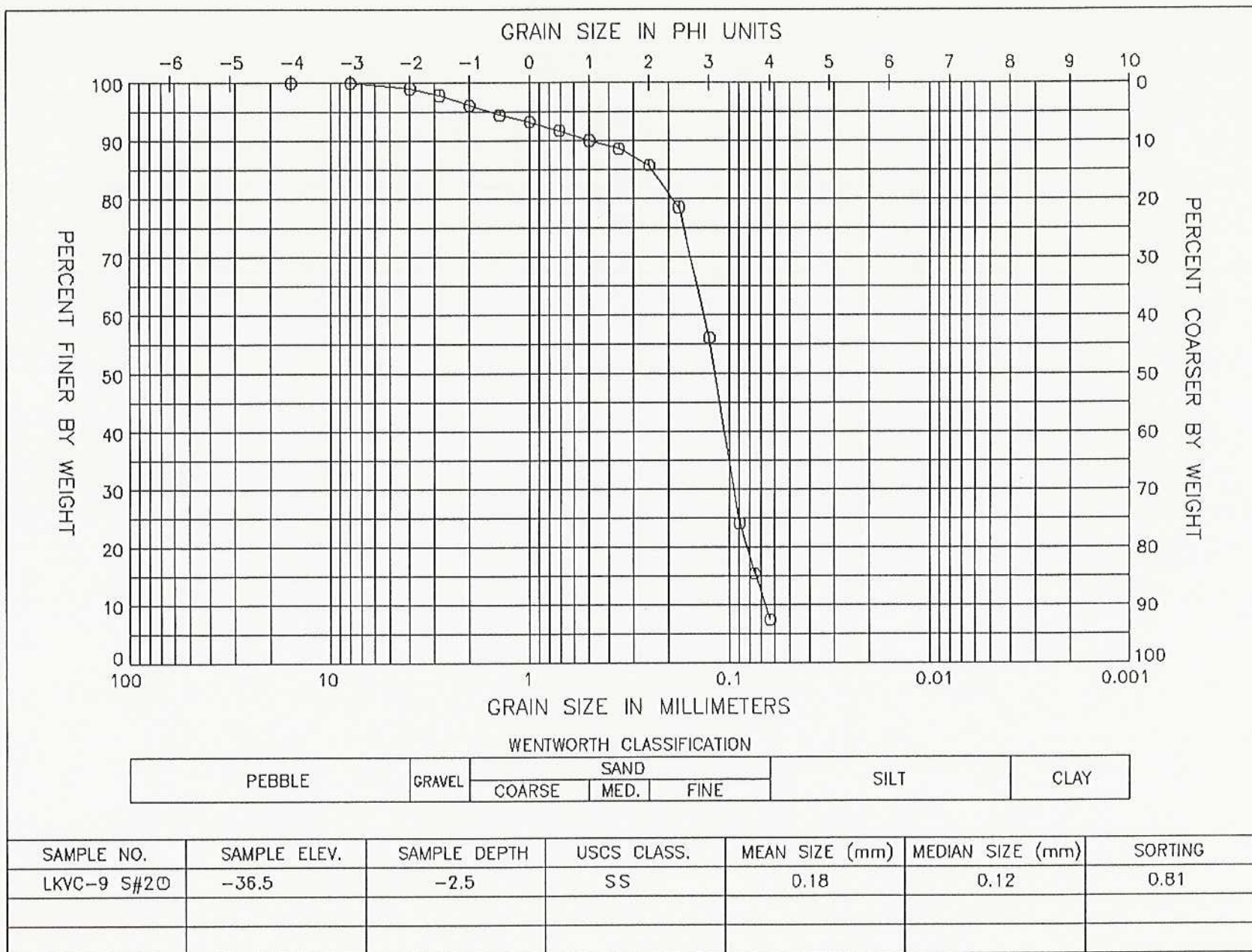


WENTWORTH CLASSIFICATION

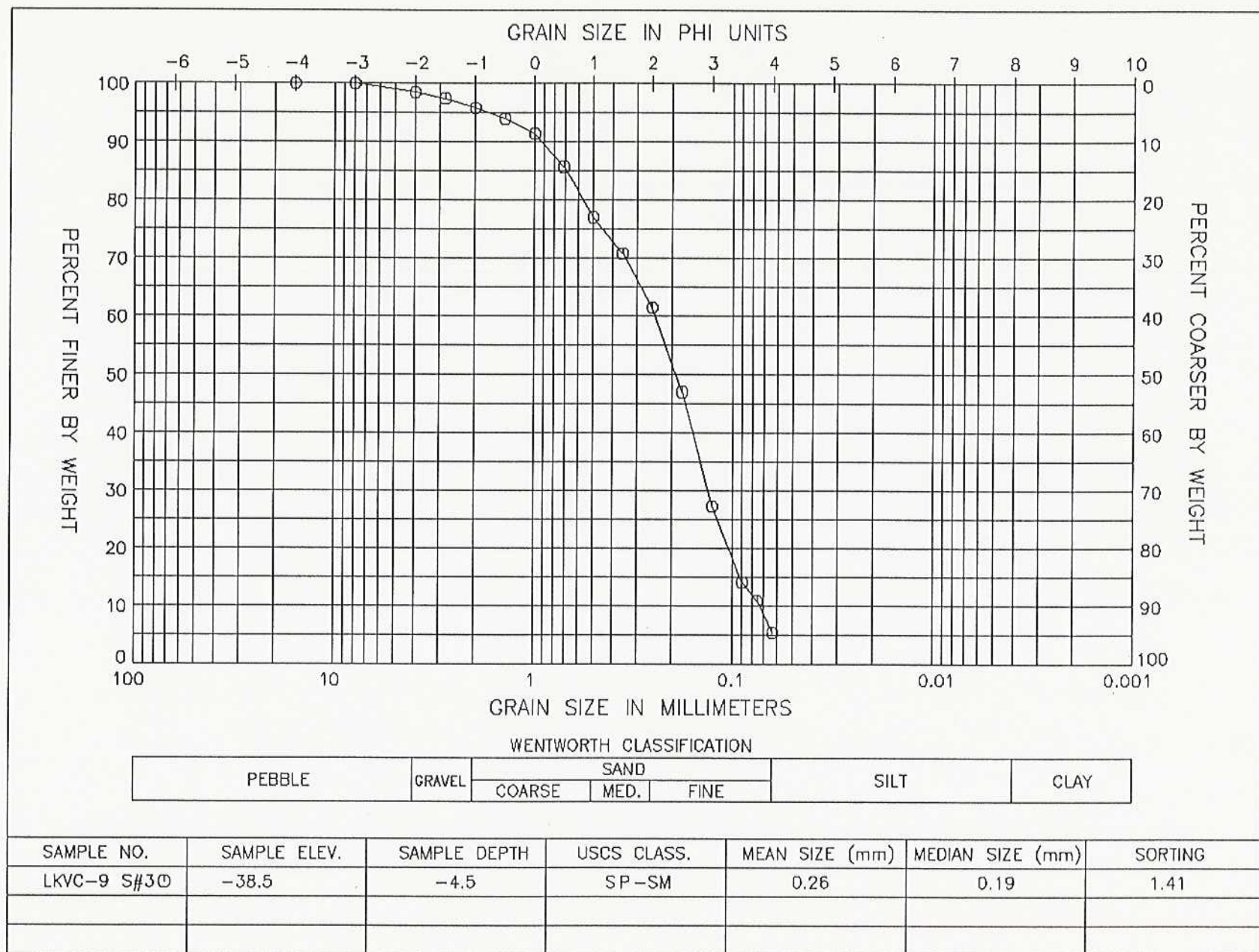
PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

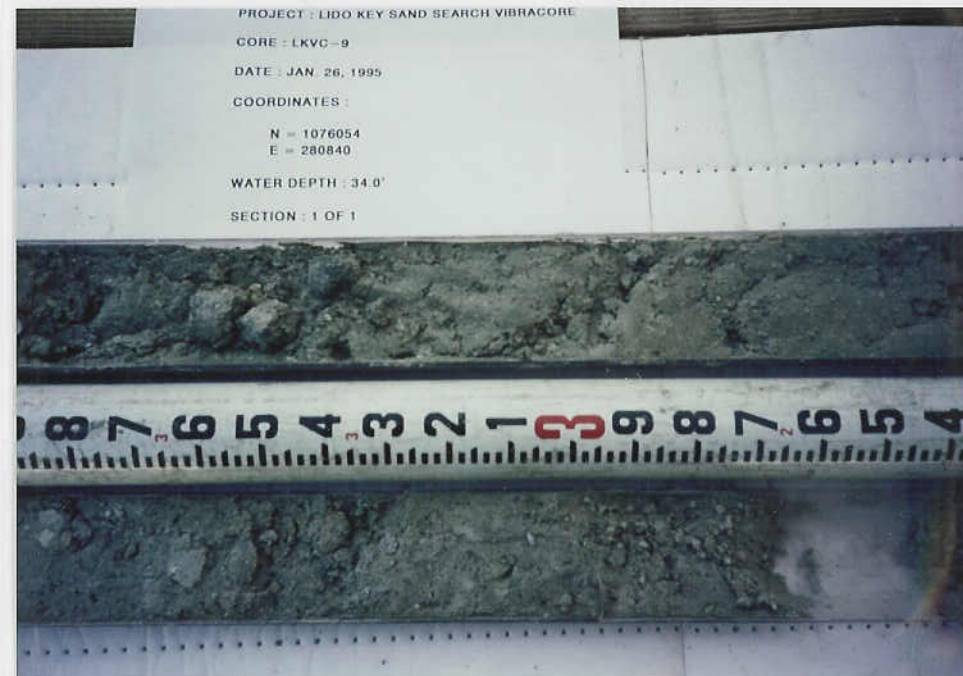
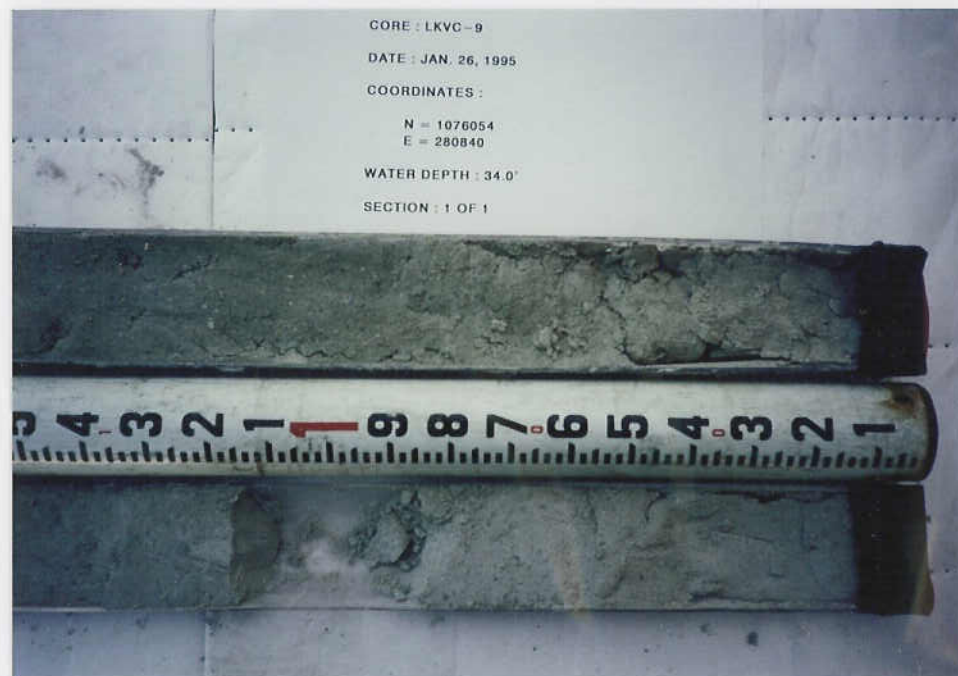
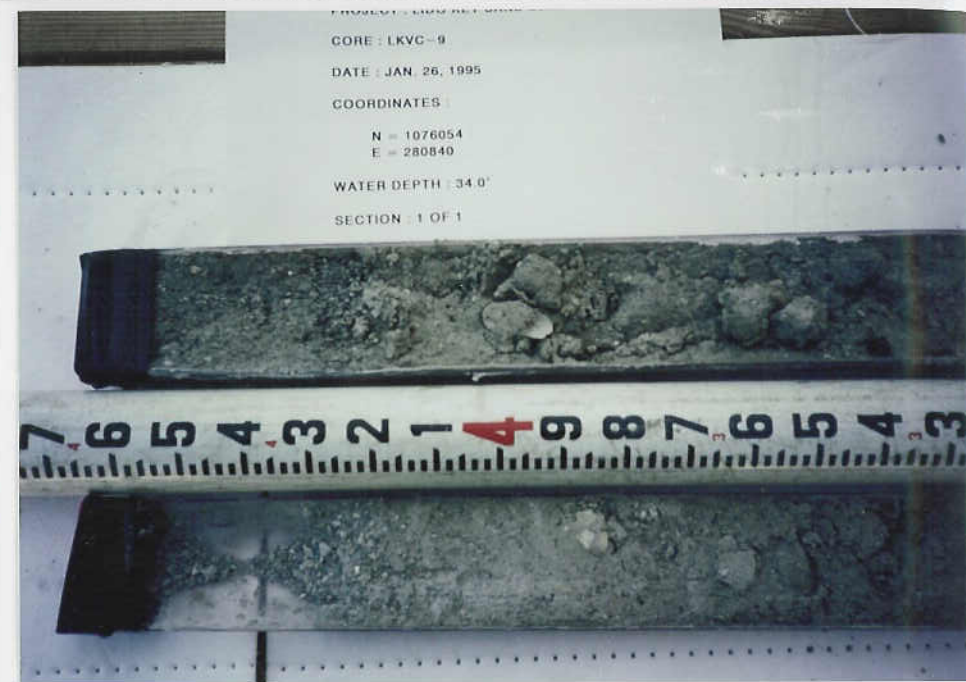
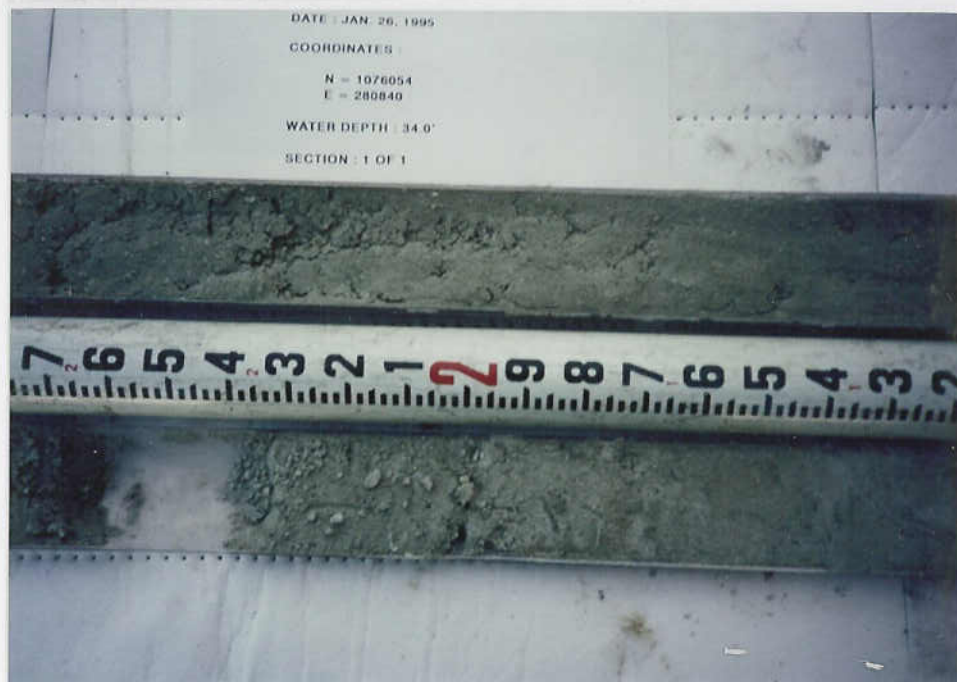
SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
LKVC-9 S#10	-35.0	-1.0	SP	0.46	0.58	1.44

GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995



GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY VIBRACORE JAN. 1995





LKVC-9