

VIBRACORE LOG							
PROJECT: LIDO KEY SAND SEARCH BORROW AREA 1      CORE NO: LKVC - 3							
COORDINATES:		DATE: JAN. 26, 1995		WATER DEPTH: 33.0 Ft. NGVD			
N = 1074133		START TIME: 1236		DRILLER: EXMAR			
E = 279612		END TIME: 1245		CLIENT REP: M. D. ANDREWS			
CORE DIAMETER:	2.5"	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BARREL:	12.0'	33.0'	0.0				
PENETRATION DEPTH:	8.5'						
LENGTH RECOVERED:	3.8'						
BIT SAMPLE : CONTAINED ROCK FRAG. 0.1'							
LENGTH RETAINED : 3.7'							
SUPPORT VESSEL: EXMAR II		35.0'	2.0		LIGHT GREENISH GRAY ( 10Y 7/1 ) FINE / MEDIUM GRAINED SAND	1 1.0' 34.0'	2.31 Phi 0.20 mm 5.5 % SILT (SP - SM)
POSITIONING: DGPS MOTOROLA LGT 1000 / USCG BEACON			2.5		LIGHT GREENISH GRAY ( 10Y 7/1 ) FINE / MEDIUM GRAINED SAND WITH		1.71 Phi 0.31 mm 15.1 % SILT (SS)
WEATHER:		35.9'	2.9		1 - 2 cm ROCK FRAGMENTS	2 2.5' 35.5'	
WIND:		36.7'	3.7		LIGHT GREENISH GRAY ( 10Y 8/1 ) SILT LAYER		
DIR : NW SPEED : 10 Kt							
WAVES:			5.0				
DIR : NW HEIGHT: 1 - 2 Ft.							
CURRENT:							
DIR : SOUTH SPEED : LIGHT							
ANALYSIS BY : MDA							
ANALYSIS METHOD:							
VISUAL LOGGING							
MECHANICAL SIEVE							
SAND							
SHELLS							
ROCK FRAG.							
SHELL HASH							
ROCK							
SILT							
		41.0'	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 0.23 mm

COASTAL PLANNING & ENGINEERING, INC

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

SAMPLE NO.: LKVC-3 S#1  
SAMPLE ELEV. (FT. NGVD): -34.0  
SAMPLE DEPTH (FT.): -1.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 68.29  
SAMPLE WEIGHT AFTER WASH (GRAMS): 64.75

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	.15	.22	99.78
7	-1.5	2.800	.56	.82	99.18
10	-1.0	2.000	1.09	1.60	98.40
14	-0.5	1.400	1.97	2.88	97.12
18	0.0	1.000	3.20	4.69	95.31
25	0.5	.710	5.59	8.19	91.81
35	1.0	.500	8.70	12.74	87.26
45	1.5	.355	10.92	15.99	84.01
60	2.0	.250	14.64	21.44	78.56
80	2.5	.180	27.19	39.82	60.18
120	3.0	.125	53.92	78.96	21.04
170	3.5	.090	63.51	93.00	7.00
200	3.75	.075	64.56	94.54	5.46
230	4.0	.063	66.46	97.32	2.68
PAN			68.25	99.94	.06

PHI(5): .04 PHI(16): 1.50 PHI(25): 2.10  
PHI(50): 2.63 PHI(75): 2.95 PHI(84): 3.18  
PHI(95): 3.79

SIEVE LOSS(g): .04 SILT/CLAY: 5.46%  
SKEWNESS: -1.424 KURTOSIS: 1.801

GRAPHIC METHOD

MEAN (PHI): 2.23 SORTING: .84  
MEAN (mm): .21 MEDIAN (mm): .16  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.31 SORTING: 1.06  
MEAN (mm): .20

DATA FILE NAME: LKVC3-S1.TAB



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

SAMPLE NO.: LKVC-3 S#2  
SAMPLE ELEV. (FT. NGVD): -35.5  
SAMPLE DEPTH (FT.): -2.5  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SS

DRY SAMPLE WEIGHT (GRAMS): 86.87  
SAMPLE WEIGHT AFTER WASH (GRAMS): 74.31

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	4.52	5.20	94.80
7	-1.5	2.800	6.32	7.28	92.72
10	-1.0	2.000	8.22	9.46	90.54
14	-0.5	1.400	11.04	12.71	87.29
18	0.0	1.000	15.16	17.45	82.55
25	0.5	.710	21.59	24.85	75.15
35	1.0	.500	27.85	32.06	67.94
45	1.5	.355	31.02	35.71	64.29
60	2.0	.250	35.33	40.67	59.33
80	2.5	.180	42.33	48.73	51.27
120	3.0	.125	54.74	63.01	36.99
170	3.5	.090	69.07	79.51	20.49
200	3.75	.075	73.72	84.86	15.14
230	4.0	.063	80.43	92.59	7.41
PAN			86.79	99.91	.09

PHI(5): -2.04      PHI(16): -.15      PHI(25): .51  
PHI(50): 2.54      PHI(75): 3.36      PHI(84): 3.71  
PHI(95): 4.08

SIEVE LOSS(g): .08      SILT/CLAY: 15.14%  
SKEWNESS: -3.050      KURTOSIS: .879

GRAPHIC METHOD

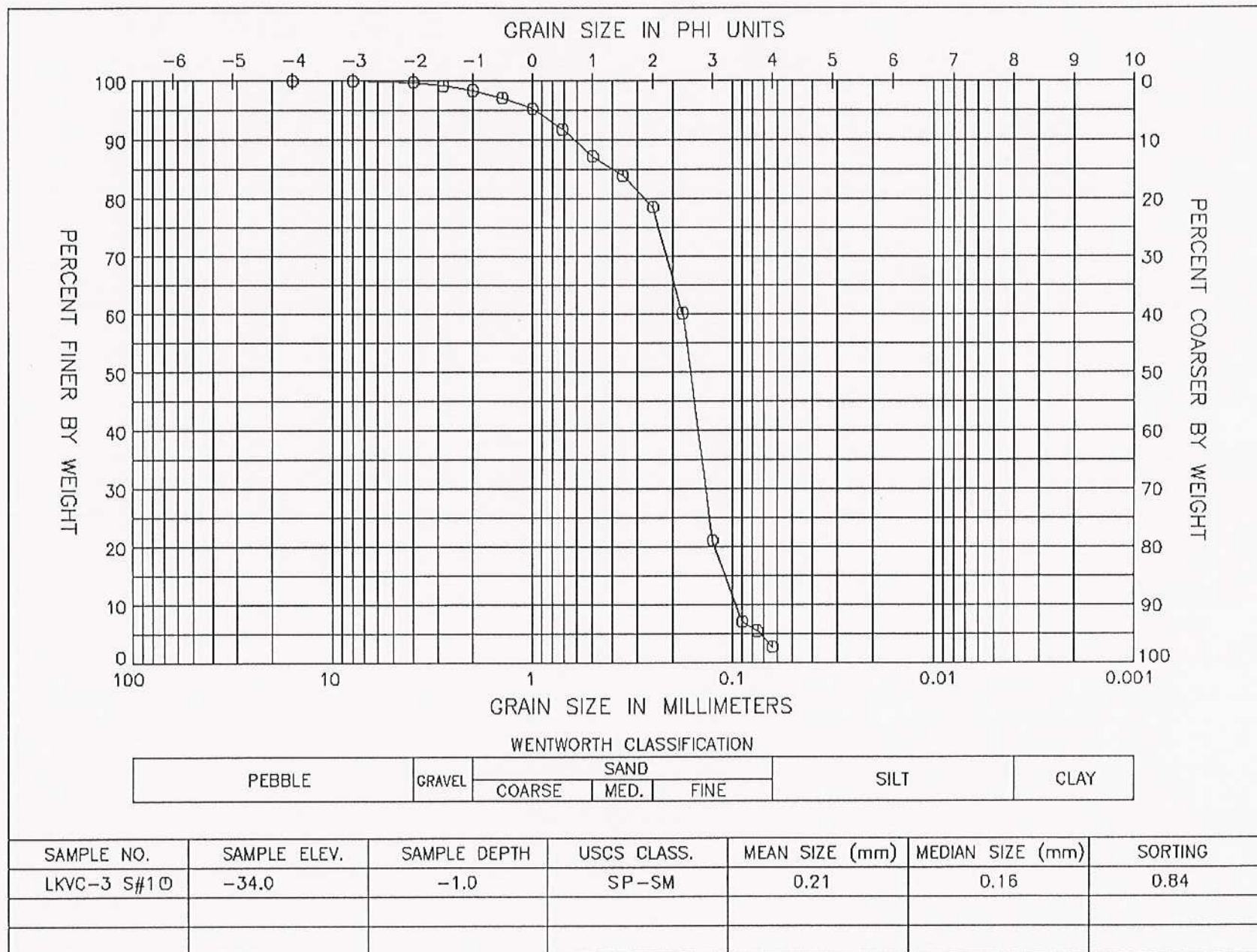
MEAN (PHI): 1.63      SORTING: 1.93  
MEAN (mm): .32      MEDIAN (mm): .17  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.71      SORTING: 1.83  
MEAN (mm): .31

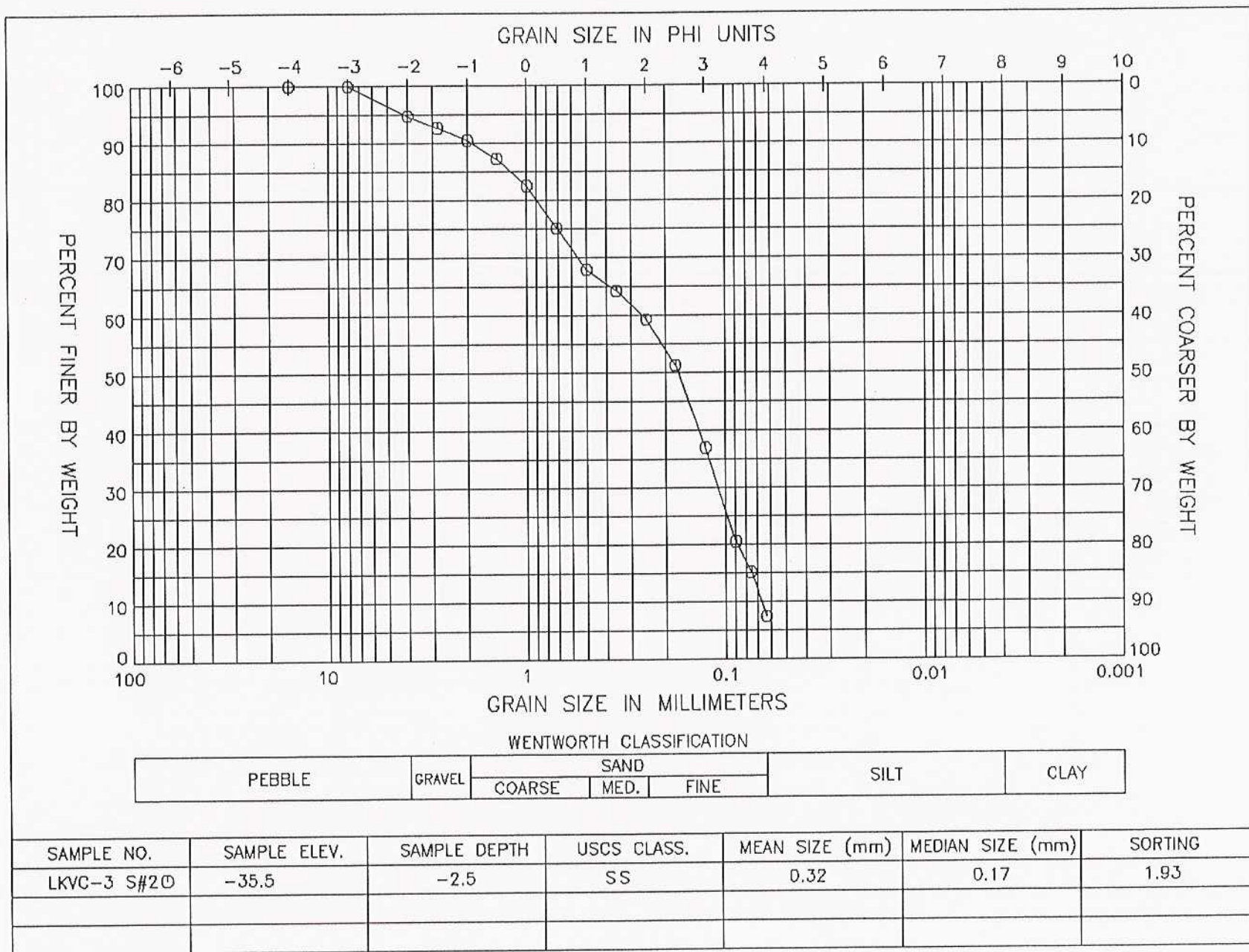
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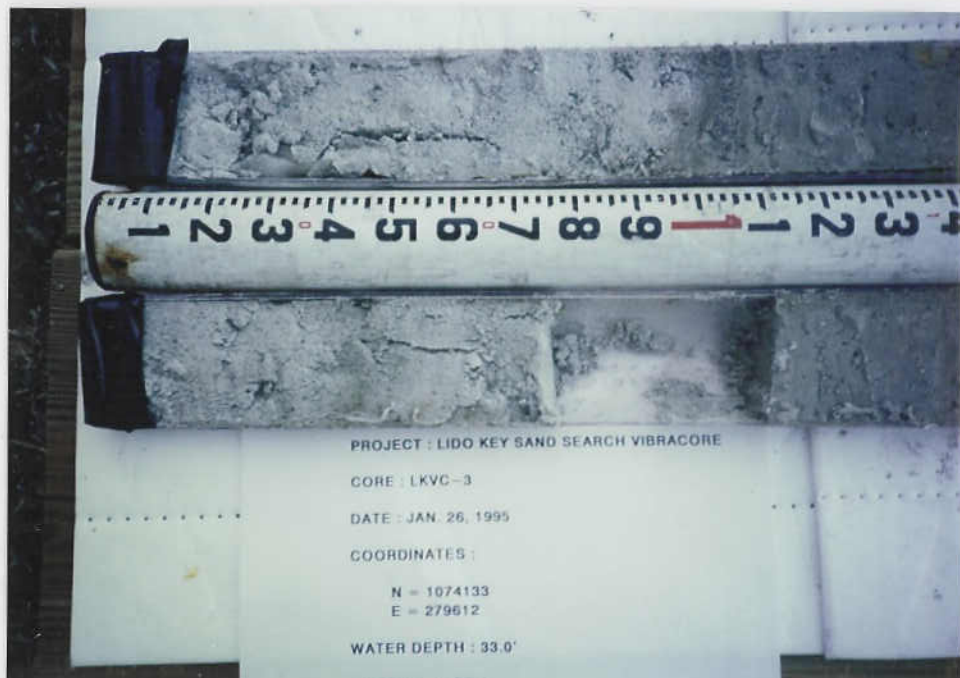
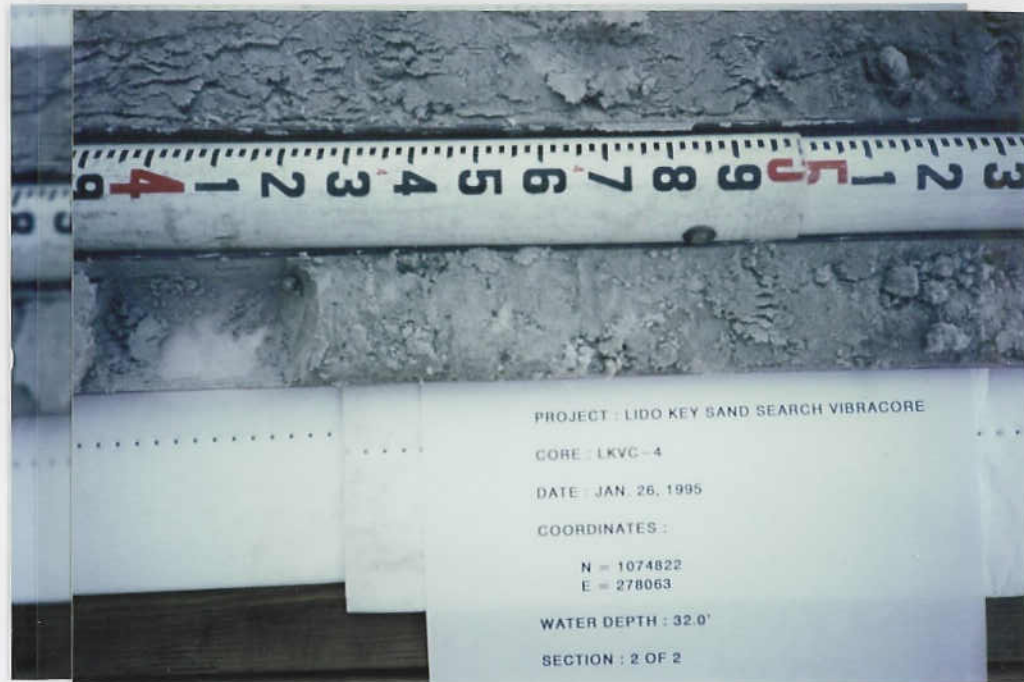
GRAIN SIZE DISTRIBUTION CURVE  
LIDO KEY VIBRACORE JAN. 1995





GRAIN SIZE DISTRIBUTION CURVE  
LIDO KEY VIBRACORE JAN. 1995





LKVC-3

