

VIBRACORE LOG

Project: NEW PASS EBB SHOALCore No: NP-2 AND NP-2A

Coordinates:

N = 1,086,502E = 307,057Date: 10/23/91Start Time 1227/1435End Time 1235/1450Water Depth 6.3 NGVDDriller MIKE CLARKE - EXMARClient Rep. JEFF ANDREWS - CPE

Core Diam. 3"
 Length of Barrel 20'
 Penetration Depth _____
 Length Recovered _____
 Length Retained 9.4
 Remarks: 2ND ATTEMPT NP-2A 7.0'
 JETTED TO _____
 PENETRATION DEPTH _____
 LENGTH RECOVERED 12.4'
 LENGTH RETAINED 7' - 9.4'
 OVERLAP _____

Support Vessel MARINER MARINE
 Positioning System TRISPOUNDER
 Positioning Remarks: HYPACT

Weather CLEAR
 Wind _____
 Dir: SE
 Est. Speed 5-10 KNTS.
 Waves _____
 Dir: _____
 Height CALM
 Current _____
 Dir: NA
 Est. Speed: _____

Analysis By: FK
 Date: _____
 Analysis Method: SIEVE
 CORE LOGGED BY: PH

Elev.	Depth	Legend	Description	Samp. No.	Remarks
-6.3	0				
-7.0	0.7		FINE WHITE QUARTZ SAND		
			SHELL HASH 0.5" MAX		
-8.7	2.4			-2.0	MEAN 7.30 mm SILT 1.32%
-9.1	2.8		SHELL HASH 1.0"		
			FINE WHITE QUARTZ SAND W/ SHELL HASH 5% < 0.25"	-4.5	MEAN
-11.5	5				
-11.8	5.5		SHELL HASH < 0.25		
-13.3	7.0		FINE WHITE QUARTZ SAND		START OF 2 ND ATTEMPT
			2-3" CORAL SHELLS	-8.0	OVERLAP
-15.7	9.4		FINE WHITE QUARTZ SAND		END OF 1 ST ATTEMPT
	10		FINE WHITE QUARTZ SAND	-10.0	MEAN 0.16 mm SILT 4.8%
-18.0	11.7				
-18.7	12.4		FINE GREY QUARTZ SAND W/ 5% SHELL HASH 0.125 MAX		
	15				
	20				

MEAN
 0.15 mm
 SILT
 1.7%

GRADATION ANALYSIS REPORT
LIDO KEY SAND SAMPLES, OCT. 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP2-2
SAMPLE ELEV. (FT. NGVD): -5
SAMPLE DEPTH (FT.): -2
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SW

DRY SAMPLE WEIGHT (GRAMS): 245.78
SAMPLE WEIGHT AFTER WASH (GRAMS): 242.64

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	61.30	24.94	75.06
7	-1.5	2.800	88.01	35.81	64.19
10	-1.0	2.000	118.34	48.15	51.85
14	-0.5	1.400	141.91	57.74	42.26
18	0.0	1.000	165.65	67.40	32.60
25	0.5	.710	182.40	74.21	25.79
35	1.0	.500	198.29	80.68	19.32
45	1.5	.355	207.35	84.36	15.64
60	2.0	.250	214.05	87.09	12.91
80	2.5	.180	228.00	92.77	7.23
120	3.0	.125	239.61	97.49	2.51
170	3.5	.090	242.34	98.60	1.40
200	3.75	.075	242.54	98.68	1.32
230	4.0	.063	244.12	99.32	.68
PAN			245.74	99.98	.02

SIEVE LOSS(g): .04
MEDIAN (mm): 1.871
SILT/CLAY: 1.32%
SKEWNESS: 1.744
MEAN (mm): 1.297
SORTING: 1.905
KURTOSIS: .887

PHI(5): -2.80 PHI(16): -2.36 PHI(25): -2.00
PHI(50): -.90 PHI(75): .56 PHI(84): 1.45
PHI(95): 2.74
COEFFICIENT OF CURVATURE : 1.458
COEFFICIENT OF UNIFORMITY: 12.013

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: NP2-02.TAB

GRADATION ANALYSIS REPORT
LIDO KEY SAND SAMPLES, OCT 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP2-4
SAMPLE ELEV. (FT. NGVD): -5
SAMPLE DEPTH (FT.): -4.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 256.65
SAMPLE WEIGHT AFTER WASH (GRAMS): 247.82

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	.26	.10	99.90
7	-1.5	2.800	.76	.30	99.70
10	-1.0	2.000	1.45	.56	99.44
14	-0.5	1.400	2.41	.94	99.06
18	0.0	1.000	3.77	1.47	98.53
25	0.5	.710	5.20	2.03	97.97
35	1.0	.500	8.05	3.14	96.86
45	1.5	.355	11.70	4.56	95.44
60	2.0	.250	21.63	8.43	91.57
80	2.5	.180	182.72	71.19	28.81
120	3.0	.125	240.32	93.64	6.36
170	3.5	.090	247.01	96.24	3.76
200	3.75	.075	247.66	96.50	3.50
230	4.0	.063	252.13	98.24	1.76
PAN			256.63	99.99	.01

SIEVE LOSS(g): .02
MEDIAN (mm): .199
SILT/CLAY: 3.50%
SKEWNESS: .156
MEAN (mm): .190
SORTING: .362
KURTOSIS: 1.543

PHI(5): 1.56 PHI(16): 2.06 PHI(25): 2.13
PHI(50): 2.33 PHI(75): 2.58 PHI(84): 2.79
PHI(95): 3.26
COEFFICIENT OF CURVATURE : 1.140
COEFFICIENT OF UNIFORMITY: 1.588

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: NP2-04.TAB

GRADATION ANALYSIS REPORT
LIDO KEY SAND SAMPLES, OCT. 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP2-8
SAMPLE ELEV. (FT. NGVD): -5
SAMPLE DEPTH (FT.): -8
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 281.48
SAMPLE WEIGHT AFTER WASH (GRAMS): 277.60

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	.22	.08	99.92
7	-1.5	2.800	.39	.14	99.86
10	-1.0	2.000	.58	.21	99.79
14	-0.5	1.400	.75	.27	99.73
18	0.0	1.000	.91	.32	99.68
25	0.5	.710	1.08	.38	99.62
35	1.0	.500	1.47	.52	99.48
45	1.5	.355	2.13	.76	99.24
60	2.0	.250	3.98	1.41	98.59
80	2.5	.180	68.21	24.23	75.77
120	3.0	.125	228.72	81.26	18.74
170	3.5	.090	271.61	96.49	3.51
200	3.75	.075	276.58	98.26	1.74
230	4.0	.063	278.81	99.05	.95
PAN			281.47	100.00	.00

SIEVE LOSS(g):	.01		
MEDIAN (mm):	.151	MEAN (mm):	.150
SILT/CLAY:	1.74%	SORTING:	.385
SKEWNESS:	.078	KURTOSIS:	1.283

PHI(5): 2.08	PHI(16): 2.32	PHI(25): 2.51
PHI(50): 2.73	PHI(75): 2.95	PHI(84): 3.09
PHI(95): 3.45		
COEFFICIENT OF CURVATURE :	1.089	
COEFFICIENT OF UNIFORMITY:	1.568	

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: NP2-08.TAB

GRADATION ANALYSIS REPORT
LIDO KEY SAND SAMPLES, OCT. 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP2-10
SAMPLE ELEV. (FT. NGVD): -5
SAMPLE DEPTH (FT.): -10
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

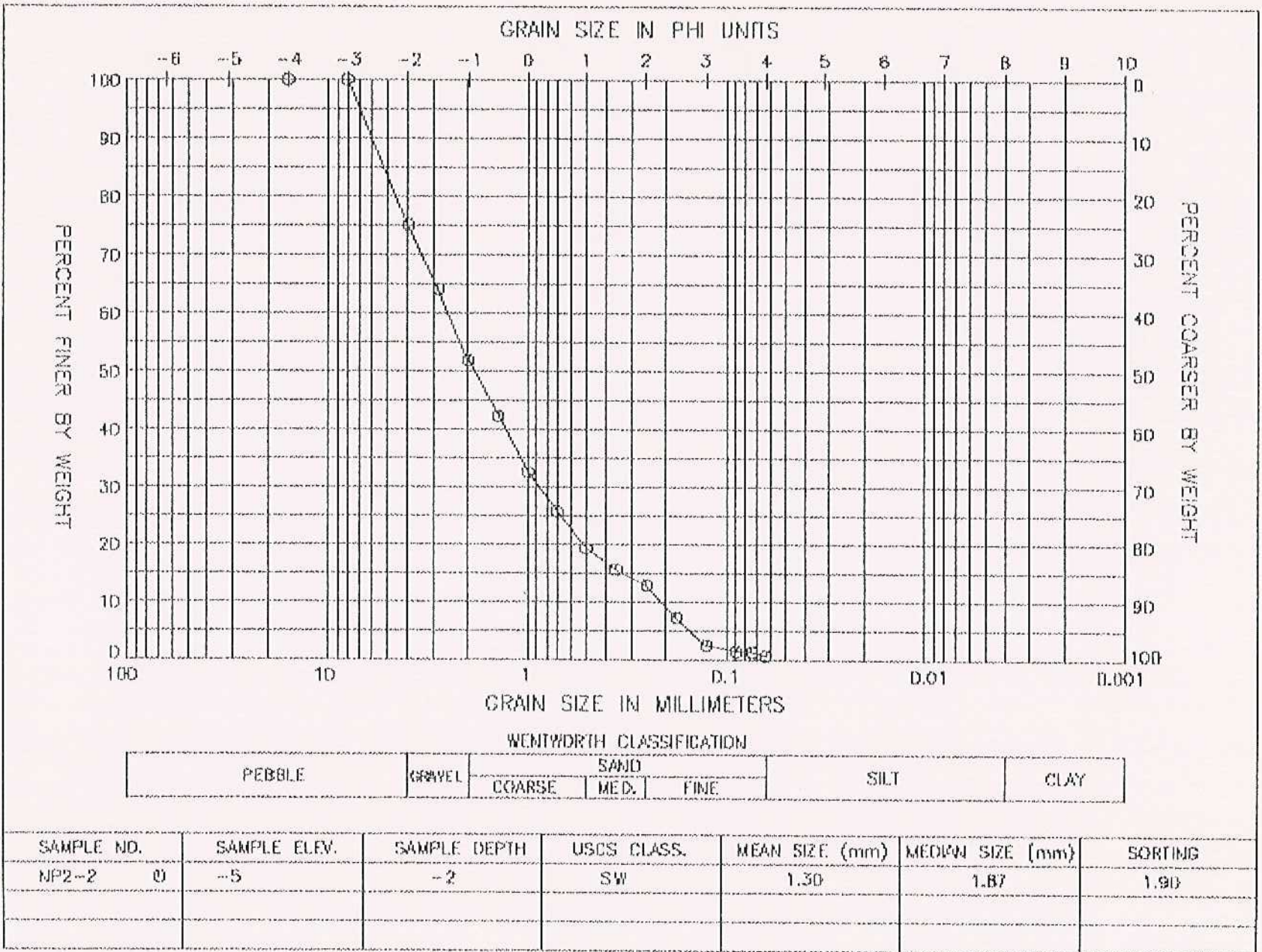
DRY SAMPLE WEIGHT (GRAMS): 297.67
SAMPLE WEIGHT AFTER WASH (GRAMS): 285.09

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	.34	.11	99.89
7	-1.5	2.800	.34	.11	99.89
10	-1.0	2.000	.38	.13	99.87
14	-0.5	1.400	.46	.15	99.85
18	0.0	1.000	.55	.18	99.82
25	0.5	.710	.66	.22	99.78
35	1.0	.500	1.06	.36	99.64
45	1.5	.355	1.97	.66	99.34
60	2.0	.250	6.04	2.03	97.97
80	2.5	.180	141.54	47.55	52.45
120	3.0	.125	257.75	86.59	13.41
170	3.5	.090	280.56	94.25	5.75
200	3.75	.075	283.52	95.25	4.75
230	4.0	.063	290.12	97.46	2.54
PAN			297.59	99.97	.03

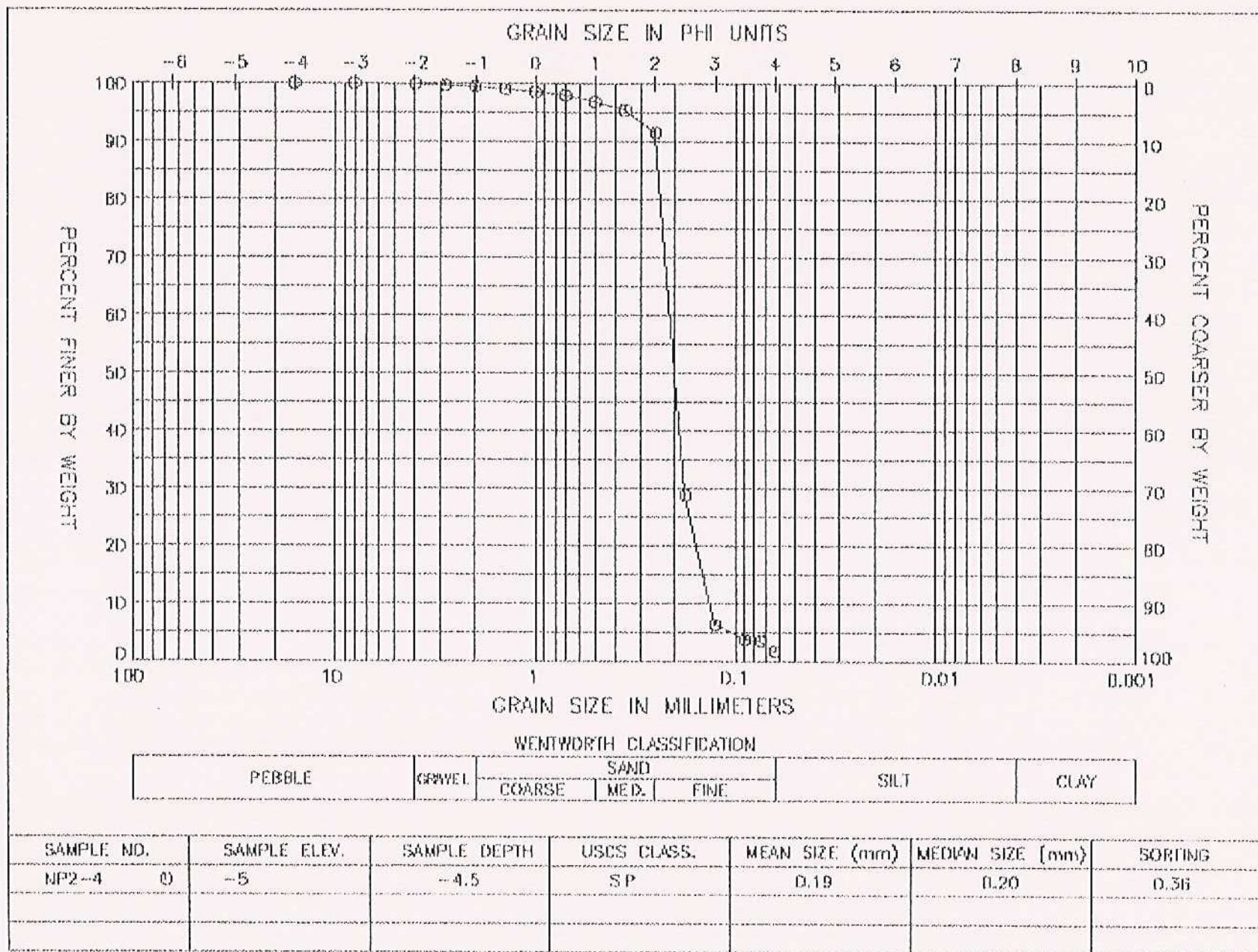
SIEVE LOSS(g):	.08	MEAN (mm):	.157
MEDIAN (mm):	.173	SORTING:	.407
SILT/CLAY:	4.75%	KURTOSIS:	1.132
SKEWNESS:	.658		

PHI(5):	2.03	PHI(16):	2.15	PHI(25):	2.25
PHI(50):	2.53	PHI(75):	2.85	PHI(84):	2.97
PHI(95):	3.69				
COEFFICIENT OF CURVATURE :	1.046				
COEFFICIENT OF UNIFORMITY:	1.748				

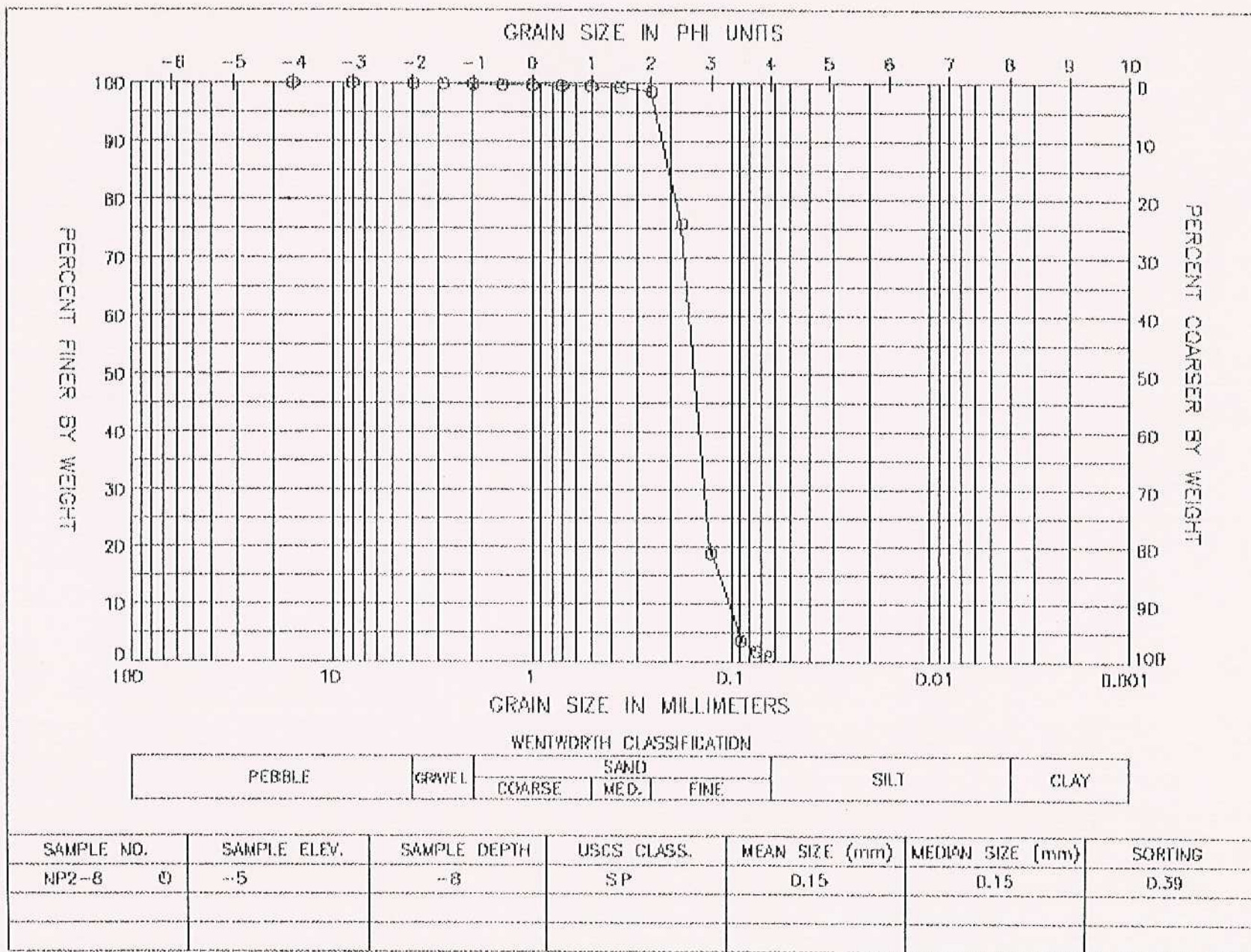
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: NP2-10.TAB



GRAIN SIZE DISTRIBUTION CURVE
LIDO KEY SAND SAMPLES, OCT 23 1991



GRAIN SIZE DISTRIBUTION CURVE
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