

VIBRACORE LOG

Project: NEW PASS EBB SHOALCore No: NP-1 AND NP-1A

Coordinates:

N = 1,087,230E = 307,574Date: 10/23/91Start Time 1309/1347End Time 1315/1355Water Depth 4.3 NGVDDriller MIKE CLARKE - EXMARClient Rep. JEFF ANDREWS - CPECore Diam. 3"Length of Barrel 20'Penetration Depth Length Recovered Length Retained Remarks: 2ND ATTEMPT: NP-1APENETRATION DEPTH LENGTH RECOVERED 11.7LENGTH RETAINED 11.7JETTIED TO Support Vessel MARINER MARINE

Positioning

System

TRISPONDERPositioning Remarks: HYPACK

Weather

CLEAR

Wind

Dir: SEEst. Speed 5-10 KNTS.

Waves

Dir: Height CALM

Current

Dir: NAEst. Speed: Analysis By: FKDate: NOV. 1991Analysis Method: SIEVECORE LOGGED BY: PH

Elev.	Depth	Legend	Description	Samp. No.	Remarks
-4.3	0				
-6.3	2.0		FINE WHITE QUARTZ SAND WITH SHELL HASH 5% <0.25"	-1.0	MEAN - 0.32 mm SILT - 1.7%
-8.7	4.4		SHELL HASH 0.5" max W/FINE SAND	-3.0	MEAN - 1.03 mm SILT - 0.89%
-9.5	5		FINE WHITE QUARTZ SAND 10% SHELL HASH <0.25"		
-10.3	5.2		SHELL HASH <0.25"		
-10.9	6.0		FINE WHITE QUARTZ SAND 10% SHELL HASH <0.25"		
-11.7	6.8		SHELL HASH <1"		
-12.3	8.0		FINE WHITE QUARTZ SAND		END OF NP-1 AT 8.0' 2
-13.0	8.7		SHELL HASH <0.5"		START OF NP-1A NO OVERLAPPING
-13.5	9.2		FINE WHITE QUARTZ SAND 10% SHELL <0.25"		
-14.9	10		FINE SHELL HASH <0.5"		
-16.0	11.7		FINE WHITE QUARTZ SAND	-11.0	MEAN - 0.15 mm SILT 3.1%
	15				
	20				

GRADATION ANALYSIS REPORT
LIDO KEY SAND SAMPLES, OCT 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP1-1
SAMPLE ELEV. (FT. NGVD): -5
SAMPLE DEPTH (FT.): -1
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 244.55
SAMPLE WEIGHT AFTER WASH (GRAMS): 240.43

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	7.10	2.90	97.10
7	-1.5	2.800	11.22	4.59	95.41
10	-1.0	2.000	16.68	6.82	93.18
14	-0.5	1.400	21.23	8.68	91.32
18	0.0	1.000	25.55	10.45	89.55
25	0.5	.710	28.97	11.85	88.15
35	1.0	.500	33.61	13.74	86.26
45	1.5	.355	39.05	15.97	84.03
60	2.0	.250	55.81	22.82	77.18
80	2.5	.180	169.86	69.46	30.54
120	3.0	.125	234.03	95.70	4.30
170	3.5	.090	240.04	98.16	1.84
200	3.75	.075	240.37	98.29	1.71
230	4.0	.063	242.45	99.14	.86
PAN			244.52	99.99	.01

SIEVE LOSS(g): .03
MEDIAN (mm): .204
SILT/CLAY: 1.71%
SKEWNESS: -3.004
MEAN (mm): .323
SORTING: .637
KURTOSIS: 3.093

PHI(5): -1.41 PHI(16): 1.50 PHI(25): 2.02
PHI(50): 2.29 PHI(75): 2.61 PHI(84): 2.78
PHI(95): 2.99
COEFFICIENT OF CURVATURE : 1.039
COEFFICIENT OF UNIFORMITY: 1.633

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: NP1-01.TAB

GRADATION ANALYSIS REPORT
LIDO KEY SAND SAMPLES, OCT 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP1-3
SAMPLE ELEV. (FT. NGVD): -5
SAMPLE DEPTH (FT.): -3
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SW

DRY SAMPLE WEIGHT (GRAMS): 392.94
SAMPLE WEIGHT AFTER WASH (GRAMS): 389.62

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	53.92	13.72	86.28
7	-1.5	2.800	91.54	23.30	76.70
10	-1.0	2.000	144.85	36.86	63.14
14	-0.5	1.400	189.75	48.29	51.71
18	0.0	1.000	234.34	59.64	40.36
25	0.5	.710	265.02	67.45	32.55
35	1.0	.500	292.85	74.53	25.47
45	1.5	.355	307.11	78.16	21.84
60	2.0	.250	332.30	84.57	15.43
80	2.5	.180	360.96	91.86	8.14
120	3.0	.125	385.07	98.00	2.00
170	3.5	.090	389.00	99.00	1.00
200	3.75	.075	389.46	99.11	.89
230	4.0	.063	391.13	99.54	.46
PAN			392.91	99.99	.01

SIEVE LOSS(g): .03
MEDIAN (mm): 1.342
SILT/CLAY: .89%
SKEWNESS: .969

MEAN (mm): 1.032
SORTING: 1.918
KURTOSIS: .883

PHI(5): -2.64
PHI(50): -.42
PHI(95): 2.76
COEFFICIENT OF CURVATURE: 1.109
COEFFICIENT OF UNIFORMITY: 9.416

PHI(16): -1.88
PHI(75): 1.07
PHI(25): -1.44
PHI(84): 1.96

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: NP1-03.TAB

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

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP1-11
SAMPLE ELEV. (FT. NGVD): -5
SAMPLE DEPTH (FT.): -11
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 286.61
SAMPLE WEIGHT AFTER WASH (GRAMS): 279.35

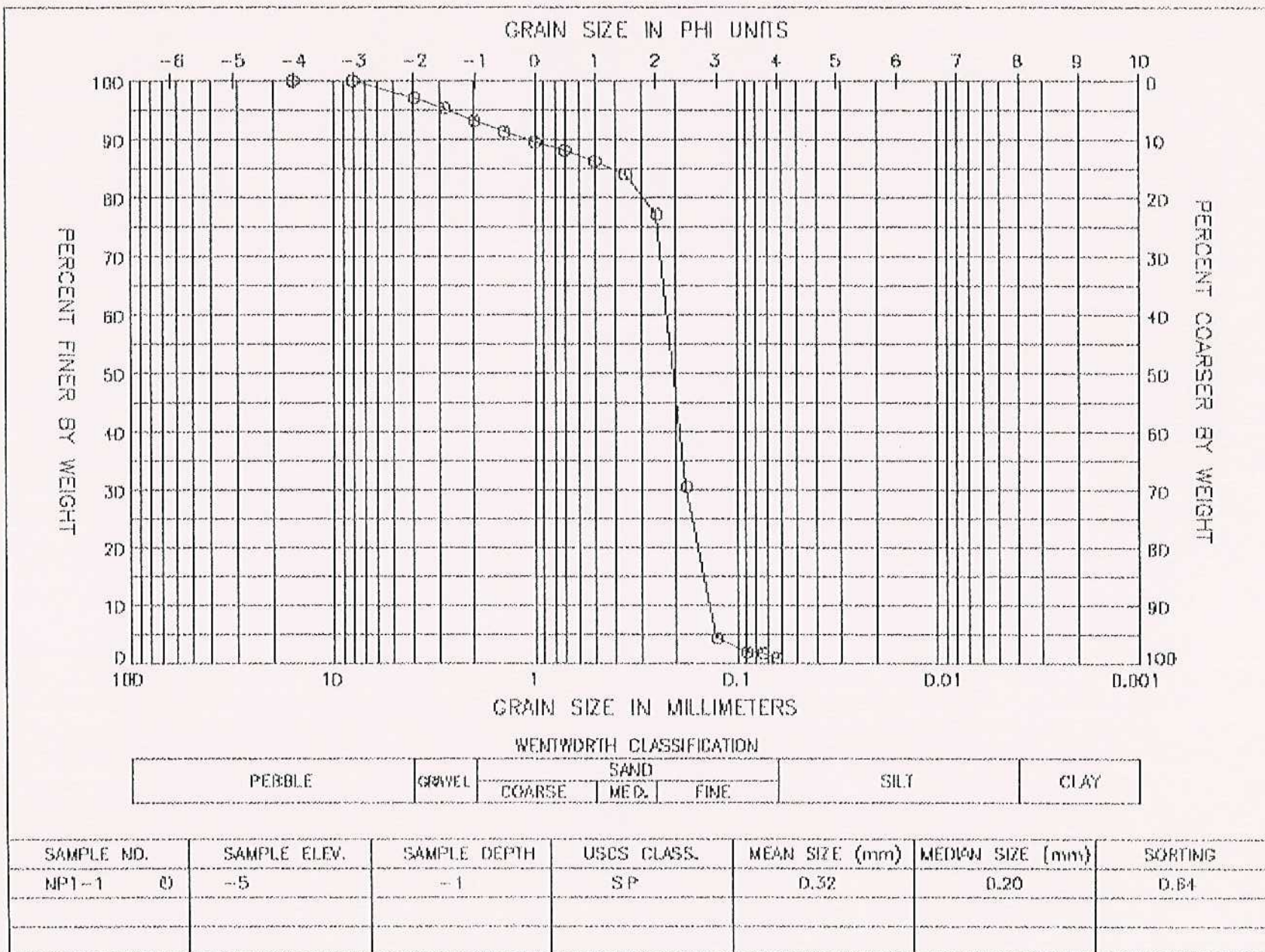
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.02	.01	99.99
7	-1.5	2.800	.12	.04	99.96
10	-1.0	2.000	.22	.08	99.92
14	-0.5	1.400	.31	.11	99.89
18	0.0	1.000	.52	.18	99.82
25	0.5	.710	.66	.23	99.77
35	1.0	.500	1.01	.35	99.65
45	1.5	.355	1.65	.58	99.42
60	2.0	.250	3.10	1.08	98.92
80	2.5	.180	93.21	32.52	67.48
120	3.0	.125	228.06	79.57	20.43
170	3.5	.090	271.43	94.70	5.30
200	3.75	.075	277.79	96.92	3.08
230	4.0	.063	281.85	98.34	1.66
PAN			286.59	99.99	.01

SIEVE LOSS(g):	.02		
MEDIAN (mm):	.155	MEAN (mm):	.150
SILT/CLAY:	3.08%	SORTING:	.455
SKEWNESS:	.224	KURTOSIS:	1.056

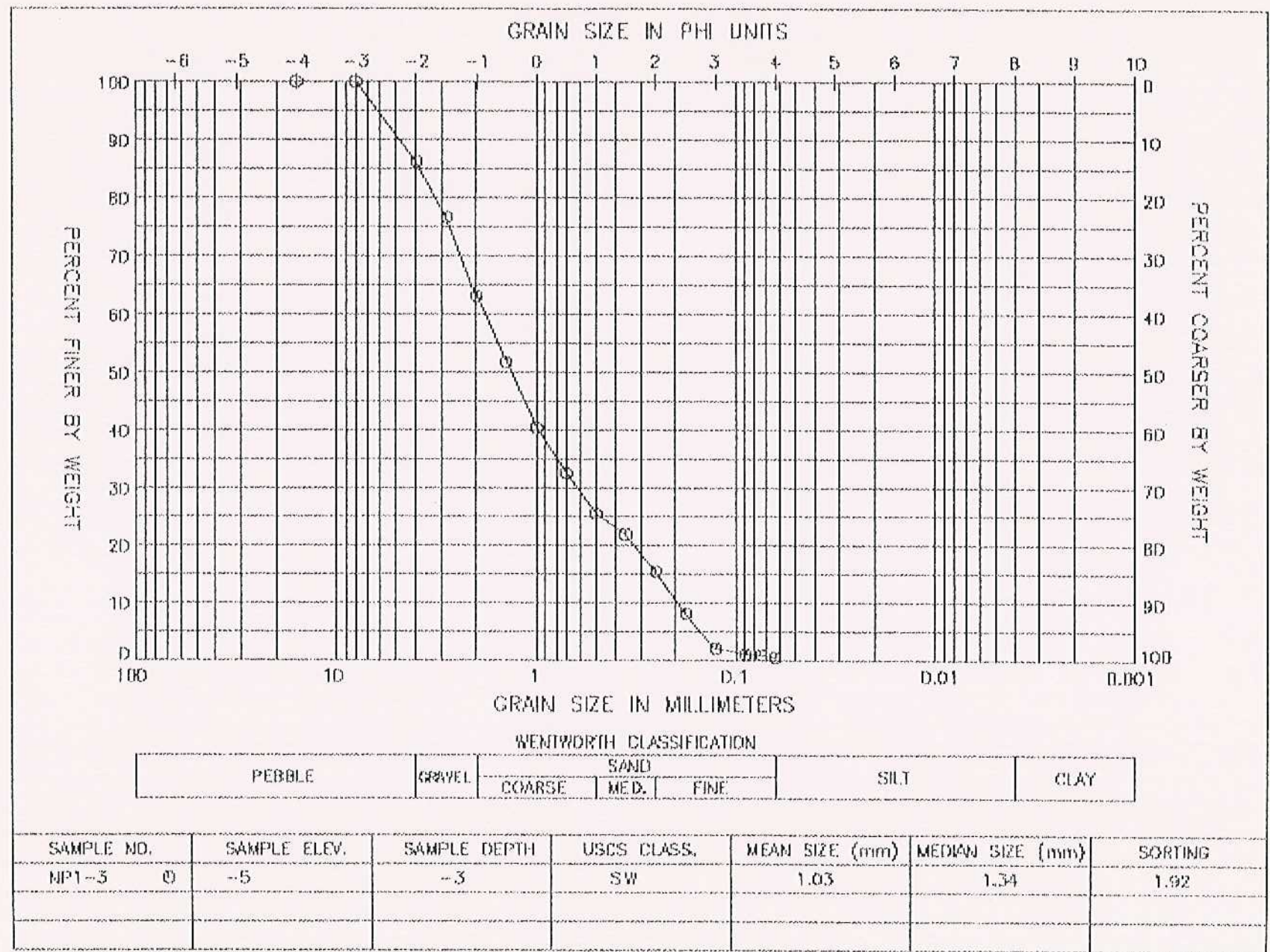
PHI(5):	2.06	PHI(16):	2.24	PHI(25):	2.38
PHI(50):	2.69	PHI(75):	2.95	PHI(84):	3.15
PHI(95):	3.53				
COEFFICIENT OF CURVATURE :	1.092				
COEFFICIENT OF UNIFORMITY:	1.699				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: NP1-11.TAB

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



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



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

