

VIBRACORE LOG

Project: NEW PASS EBB SHOALCore No: NP - 3 AND NP - 3A

Coordinates:


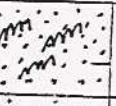
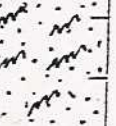
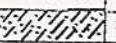
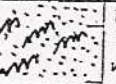

N = 1,085,795E = 306,116Date: 10/23/91Start Time 0835/0901End Time 0840/0915Water Depth 12.6 NGVDDriller MIKE CLARKE - EXMARClient Rep. JEFF ANDREWS - CPE

Core Diam. 3"
 Length of Barrel 20'
 Penetration Depth _____
 Length Recovered 5.0
 Length Retained 5.0
 Remarks: 2ND ATTEMPT NP-3A
 JETTED TO 6.0'
 PENETRATION DEPTH _____
 LENGTH RECOVERED 12.1
 LENGTH RETAINED 12.1

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
-12.6	0				
			FINE WHITE QUARTZ SAND	-3.0'	MEAN 0.16mm SILT 1.7% END OF 1 ST ATTEMPT ↓
-17.6	5'				
-18.6	6.0'		NO RECOVERY		NO OVERLAP
-20.4	7.8'		FINE WHITE QUARTZ SAND W/ SHELL HASH 5% < 0.25"	-7.0'	MEAN 0.20mm SILT 2.0% START OF 2 ND ATTEMPT
-22.6	10'		FINE GREY QUARTZ SAND W/ SHELL HASH 5% < 0.25"	-9.0'	MEAN 0.12mm SILT 6.0%
-23.0	10.4		SOFT GRAY CLAY W/ SAND LAYER		
-24.7	12.1		FINE GRAY & WHITE SAND QUARTZ SAND W/ 15% SHELL HASH		
	15		LARGE CLAM SHELL IN SIT		
	20				

GRADATION ANALYSIS REPORT
LIDO KEY SAND SAMPLES, OCT 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP3-3
SAMPLE ELEV. (FT. NGVD): -5
SAMPLE DEPTH (FT.): -3
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 293.64
SAMPLE WEIGHT AFTER WASH (GRAMS): 288.97

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	.18	99.82
7	-1.5	2.800	.55	.19	99.81
10	-1.0	2.000	.71	.24	99.76
14	-0.5	1.400	.82	.28	99.72
18	0.0	1.000	1.11	.38	99.62
25	0.5	.710	1.33	.45	99.55
35	1.0	.500	1.80	.61	99.39
45	1.5	.355	2.47	.84	99.16
60	2.0	.250	4.82	1.64	98.36
80	2.5	.180	132.08	44.98	55.02
120	3.0	.125	262.80	89.50	10.50
170	3.5	.090	286.02	97.40	2.60
200	3.75	.075	288.78	98.34	1.66
230	4.0	.063	291.21	99.17	.83
PAN			293.61	99.99	.01

SIEVE LOSS(g):	.03		
MEDIAN (mm):	.170	MEAN (mm):	.164
SILT/CLAY:	1.66%	SORTING:	.386
SKEWNESS:	.274	KURTOSIS:	.945

PHI(5): 2.04	PHI(16): 2.17	PHI(25): 2.27
PHI(50): 2.56	PHI(75): 2.84	PHI(84): 2.94
PHI(95): 3.35		
COEFFICIENT OF CURVATURE :	.941	
COEFFICIENT OF UNIFORMITY:	1.504	

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: NP3-03.TAB

GRADATION ANALYSIS REPORT
LIDO KEY SAND SAMPLES, OCT 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP3-7
SAMPLE ELEV. (FT. NGVD): -5
SAMPLE DEPTH (FT.): -7
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 288.02
SAMPLE WEIGHT AFTER WASH (GRAMS): 282.50

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	4.29	1.49	98.51
7	-1.5	2.800	5.17	1.80	98.20
10	-1.0	2.000	6.11	2.12	97.88
14	-0.5	1.400	7.09	2.46	97.54
18	0.0	1.000	8.01	2.78	97.22
25	0.5	.710	8.62	2.99	97.01
35	1.0	.500	9.48	3.29	96.71
45	1.5	.355	10.36	3.60	96.40
60	2.0	.250	12.64	4.39	95.61
80	2.5	.180	266.47	92.52	7.48
120	3.0	.125	275.22	95.56	4.44
170	3.5	.090	281.26	97.65	2.35
200	3.75	.075	282.17	97.97	2.03
230	4.0	.063	285.02	98.96	1.04
PAN			288.02	100.00	.00

SIEVE LOSS(g):	.00		
MEDIAN (mm):	.209	MEAN (mm):	.198
SILT/CLAY:	2.03%	SORTING:	.193
SKEWNESS:	.394	KURTOSIS:	1.308

PHI(5):	2.00	PHI(16):	2.07	PHI(25):	2.12
PHI(50):	2.26	PHI(75):	2.40	PHI(84):	2.45
PHI(95):	2.91				
COEFFICIENT OF CURVATURE :	.961				
COEFFICIENT OF UNIFORMITY:	1.217				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: NP3-07.TAB

GRADATION ANALYSIS REPORT
LIDO KEY SAND SAMPLES, OCT 23 1991

TESTED BY: ON: 11-13-91

SAMPLE NO.: NP3-9
SAMPLE ELEV. (FT. NGVD): -5
SAMPLE DEPTH (FT.): -9
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 244.38
SAMPLE WEIGHT AFTER WASH (GRAMS): 230.93

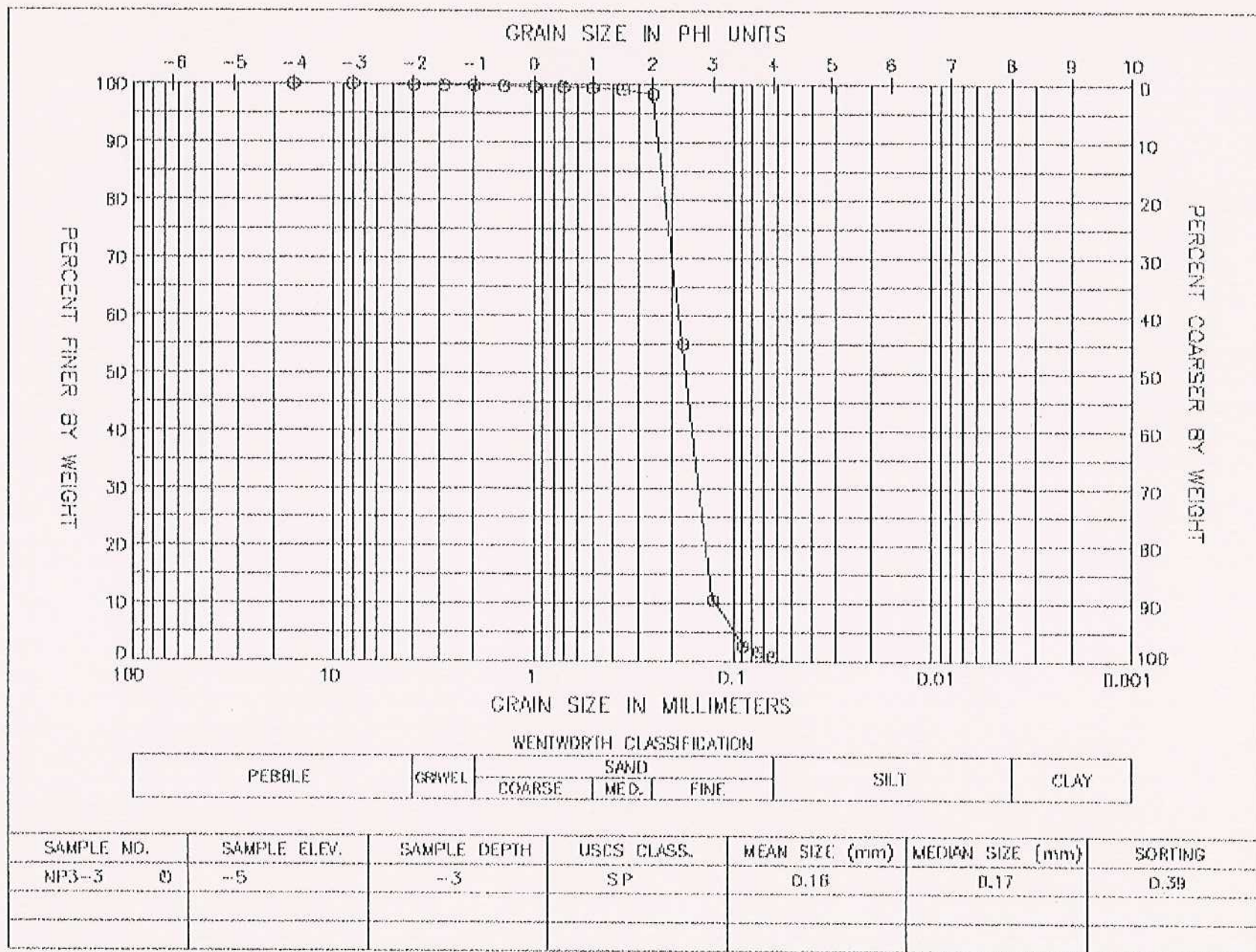
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.18	.07	99.93
7	-1.5	2.800	.69	.28	99.72
10	-1.0	2.000	1.36	.56	99.44
14	-0.5	1.400	2.14	.88	99.12
18	0.0	1.000	3.19	1.31	98.69
25	0.5	.710	4.17	1.71	98.29
35	1.0	.500	6.42	2.63	97.37
45	1.5	.355	8.35	3.42	96.58
60	2.0	.250	10.77	4.41	95.59
80	2.5	.180	16.67	6.82	93.18
120	3.0	.125	104.71	42.85	57.15
170	3.5	.090	215.52	88.19	11.81
200	3.75	.075	229.67	93.98	6.02
230	4.0	.063	237.01	96.98	3.02
PAN			244.37	100.00	.00

SIEVE LOSS(g):	.01		
MEDIAN (mm):	.118	MEAN (mm):	.123
SILT/CLAY:	6.02%	SORTING:	.413
SKEWNESS:	-.200	KURTOSIS:	1.165

PHI(5):	2.12	PHI(16):	2.63	PHI(25):	2.75
PHI(50):	3.08	PHI(75):	3.35	PHI(84):	3.45
PHI(95):	3.83				
COEFFICIENT OF CURVATURE :	.959				
COEFFICIENT OF UNIFORMITY:	1.534				

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD
DATA FILE NAME: NP3-09.TAB

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



GRAIN SIZE IN PHI UNITS

PERCENT FINER BY WEIGHT

PERCENT COARSER BY WEIGHT

GRAIN SIZE IN MILLIMETERS

WENTWORTH CLASSIFICATION

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.			MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
			GRAVEL	SAND	CLAY			
NP3-7	0	-5		SP		0.20	0.21	0.19

PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
MP3-7 0	-5	-7	SP	0.20	0.21	0.19

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

