MGGR09005055

088-18

LABORATORY ITEM 463

MGG09005055

A SUMMARY OF SEDIMENT SIZE AND CHEMISTRY OF EIGHT CORES FROM PEARL HARBOR NAVAL STATION. NAVY DIVERS. SEPTEMBER 1973.

Prepared by: J. Bowman
R. Oser

Prepared for: Code 6110

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Geological Laboratory
Nearshore Surveys Division
Oceanographic Surveys Department

NAVAL OCEANOGRAPHIC OFFICE
WASHINGTON, D.C. 20373

The results of the sediment size and composition analyses are printed out in tabular form.

The following is an explanation of the terms encountered on the data printout sheet:

CRUISE	A number assigned to each cruise for identification purposes.
SAMPLE	A consecutive number applied to each core taken successively throughout the cruise.
LATITUDE	Expressed in degrees, minutes, and tenths of minutes.
LONGITUDE	Expressed in degrees, minutes and tenths of minutes.
TAKEN	Date in day, month, and year that core was taken.
CORER TYPE	Letters corresponding to sampling device code below.

Corers		Grabs	
HYP	Hydroplastic piston	SPK	Shipek Sediment Sampler
HYG	Hydroplastic gravity	HLP	Alpine Heavy Duty Grab
KUP	Kullenberg piston	SMS	Small Mud Snapper
KUG	Kullenberg gravity	VVS	Van Veen Grab
PHL	Phlegar gravity	BED	Birge-Ekman Dredge
MEG	Modified Ewing gravity	DLS	Dietz-LaFond Snapper
MEP	Modified Ewing piston	OPG	Orange Peel Grab
VIB	Vibrocorer	SBS	Scoopfish Bottom Sampler
BOM	Boomerang	DOC	Diver Operated Corer
EWP	Ewing piston		
EWG	Ewing gravity		

LENGTH	Length of core recorded in centimeters as observed in the laboratory.
PENETRATION	Penetration of coring device recorded in centimeters as observed in the field.
DEPTH	The uncorrected sonic sounding in meters.
ANALYZED	Date in day, month, and year that core was analyzed in the laboratory.
I.D. No.	Three or four digit laboratory project number followed by consecutive number assigned to each subsample analyzed.
INTERVAL	Interval of subsample as measured in centimeters from the top of the core.
MM	Particle diameter size intervals based on Wentworth size grades in millimeters.
PER	Percent of total sample weight within the given size interval.

GRAVEL, SAND SILT, CLAY — Percent of the total sample weight within the four size classes.

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Class ranges are:

1. Gravel - coarser than 2 mm
2. Sand - 2 to 0.0625 mm
3. Silt - 0.0625 to 0.0039 mm
4. Clay - finer than 0.0039

MEAN (MM) — The geometric mean of the distribution expressed in millimeters.

MEAN (PHI) — The logarithmic mean of the distribution expressed in phi units ($-\log_2$) of the diameter in millimeters.

STAN DEV — Standard deviation. A measure of the degree of spread or dispersion of the distribution about the mean expressed in phi units.

$$s = \sqrt{\frac{\sum f \quad (X_i - \bar{X})^2}{100}}$$

SKEWNESS — A measure of the asymmetry of the distribution. Positive values denote skewness of the distribution toward the fine particles; negative values denote skewness toward the coarse particles. A normal distribution has a skewness of 0.

$$\text{Skewness} = \frac{2 \sum f \quad (X_i - X)^3}{100 \quad s^3}$$

KURTOSIS — A measure of the peakedness of the distribution. Positive values denote a "leptokurtic" distribution more "peaked" than normal. Negative values denote a "platykurtic" distribution, or a distribution more "flat" than normal. When using the following formula, a normal curve has a kurtosis of 0.

$$\text{Kurtosis} = \left[\frac{\sum f \quad (X_i - \bar{X})^4}{100 \quad s^4} \right] - 3$$

$CACO_3$ — Percent of the total sample weight soluble in 2 N HCL.

ORG CARBON — Percent organic carbon of the total sample weight as determined using a Leco carbon analyzer.

COLOR — Wet sediment color, based on the Geological Society of America Rock-Color Chart, as determined in the laboratory.

NITROGEN — Percent nitrogen of the total sample weight as determined by the Kjeldahl method.

LOG FOR CORE SAMPLES

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Project No: 463
Location: Pearl Harbor

Logged By J.C. Bowman
Date Logged 15 FEB 74

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: PH-1 Lat: 21° 22' N Long: 158° 00' W Date: SEP 73 Water depth:	463-1	Olive gray 5Y 4/1	Yes	Clayey Silt	0"-12" (0-30 cm) Shell fragments Ammonia odor
Sample No: Lat: Long: Date: Water depth:	463-2	Olive gray 5Y 4/1	Yes	Sandy Silt	12"-46" (30-117 cm) Shell fragments
Sample No: Lat: Long: Date: Water depth:	463-3	Light olive gray 5Y 6/1	Yes	Sandy Silt	46"-80" (117-203 cm) Shell fragments
Sample No: Lat: Long: Date: Water depth:					
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Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

LOG FOR CORE SAMPLES

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Project No: 463
Location: Pearl Harbor

Logged By J.C. Bowman
Date Logged 15 FEB 74

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: PH-2 Lat: 21° 22' N Long: 158° 00' W Date: SEP 73 Water depth:	463-4	Light olive gray 5Y 6/1	Yes	Clayey Silt	0"-12" (0-30 cm) Shell fragments Ammonia odor
Sample No: Lat: Long: Date: Water depth:	463-5	Light Olive gray 5Y 6/1	Yes	Sandy Silt	12"-50" (30-127 cm) Shell fragments
Sample No: Lat: Long: Date: Water depth:	463-6	Light greenish gray 5GY 5/1	Yes	Sandy Silt	50"-89" (127-226 cm) Shell fragments
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

LOG FOR CORE SAMPLES

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Project No: 463
Location: Pearl Harbor

Logged By J.C. Bowman
Date Logged 15 FEB 74

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: PH-3 Lat: 21°22' N Long: 158°00' W Date: SEP 73 Water depth:	463-7	Olive gray 5Y 5/1	Yes	Sandy Silt	0"-12" (0-30 cm) Shell fragments Decaying organic matter odor
Sample No: Lat: Long: " Date: Water depth:	463-8	Yellowish brown 10YR 3/2	Yes	Sandy Silt	12"-31" (30-179 cm) Shell fragments Numerous pieces of gravel
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

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	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: PH-4 Lat: 21° 22' N Long: 158° 00' W Date: SEP 73 Water depth:	463-9	Dark olive gray 5Y 5/1	Yes	Sandy Silt	0"–18" (0-48 cm) Shell fragments
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
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Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
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	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: PH - 5 Lat: 21° 22' N Long: 158° 00' W Date: SEP 73 Water depth:	463-10	Dark olive 10Y 2/2	No	Silty Clay	0"-12" (0-30cm) Strong decaying organic matter odor
Sample No: Lat: Long: " Date: Water depth:	463-11	Greenish black 5GY2/1	Yes	Silt	12"-40" (30-102cm) Shell fragments
Sample No: Lat: Long: " Date: Water depth:	463-12	Olive brown 5Y 3/4	Yes	Silty Clay	40"-68" (102-173cm) Shell fragments
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
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Sample No: Lat: Long: Date: Water depth:					

LOG FOR CORE SAMPLES

Project No: 463
Location: Pearl Harbor

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Logged By J.C. Bowman
Date Logged 15 FEB 74

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: PH-6 Lat: 21° 22' N Long: 158° 00' W Date: SEP 73 Water depth:	463-13	olive black 5Y 2/1	Yes	Silt	0"-12" (0-30 cm) Shell fragments Strong H_2S odor
Sample No: Lat: Long: Date: Water depth:	463-14	olive gray 5Y 3/1	No	Silty Clay	12"-42" (30-107 cm)
Sample No: Lat: Long: Date: Water depth:	463-15	olive gray 5Y 5/1	Yes	Silty Sand	42"-72" (107-183 cm) Shell fragments
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
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Project No: 463
Location: Pearl Harbor

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Logged By J.C. Bowman
Date Logged 15 FEB 74

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: PN - 7 Lat: 21° 22' N Long: 158° 00' W Date: SEP 73 Water depth:	463-16	olive black 5Y 2/1	No	Silty Clay	0"-12". (0-30cm)
Sample No: Lat: Long: Date: Water depth:	463-17	olive gray 5Y3/1	Yes	Sandy Silt	12"-31" (30-79 cm) Shell fragments.
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
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Project No: 463
Location: Pearl Harbor

Logged By J.C. Bowman
Date Logged 15 FEB 74

	La No.	Color	Calc. Mat.	Sediment Type	Remarks
Sample No: PH-8 Lat: 21° 22'N Long: 158° 00'W Date: SEP 73 Water depth:	463-18	Brownish black 5YR 2/1	No	Silt	0"-12" (0-30 cm) Strong decaying organic matter odor
Sample No: Lat: Long: Date: Water depth:	463-19	Greenish black 5G 2/1	Yes	Clayey Silt	12"-33" (30-84 cm) Shell fragments
Sample No: Lat: Long: Date: Water depth:	463-20	Greenish black 5G 2/1	Yes	Silt	33"-55" (84-140 cm) Shell fragments
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					
Sample No: Lat: Long: Date: Water depth:					

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE P-HR8R TAKEN 05EP73 LATITUDE 21 22.00 N MARSDEN SQUARE ~~367~~ 088-18 LENGTH 203.0 ANALYZED 0APR74
SAMPLE RH-1 DEPTH .0 LONGITUDE 158 .00 W CORER TYPE DOC PENETRATION .0

DIAM (PHI)	DIAM (MM)	PERCENT	PERCENT	PERCENT
	SUBSAMPLE ID.	463 1	463 2	463 3
	DEPTH INTERVAL	.0- 30.0	30.0-117.0	117.0-203.0
<-4	>16.000	.000	13.287	25.254
-4 TO -3	16.000 TO 8.000	.000	2.360	7.301
-3 TO -2	8.000 TO 4.000	.000	6.622	9.947
-2 TO -1	4.000 TO 2.000	10.153	5.682	6.487
-1 TO 0	2.000 TO 1.000	20.305	5.726	5.428
0 TO 1	1.000 TO .500	6.911	5.157	3.881
1 TO 2	.500 TO .250	3.157	7.168	6.514
2 TO 3	.250 TO .125	2.807	14.532	14.452
3 TO 4	.125 TO .063	2.321	7.955	5.292
4 TO 5	.063 TO .031	2.986	2.251	2.239
5 TO 6	.031 TO .016	1.450	3.649	1.941
6 TO 7	.016 TO .008	4.863	2.120	.638
7 TO 8	.008 TO .004	8.446	4.305	1.751
8 TO 9	.004 TO .002	4.010	3.147	1.113
9 TO 10	.002 TO .001	4.863	2.382	.828
>10	<.001	27.728	13.658	6.934
	GRAVEL (>2.0 MM)	10.153	27.950	48.989
	SAND (2.0-.063 MM)	35.500	40.538	35.568
	SILT (.063-.004 MM)	17.746	12.325	6.568
	CLAY (<.004 MM)	36.601	19.187	8.875
	MEAN (MM)	.0345	.1761	.8826
	MEAN (PHI)	4.857	2.506	.180
	STANDARD DEVIATION	4.789	4.865	4.467
	SKEWNESS	-.028	.121	.419
	KURTOSIS	-1.711	-1.031	-.145
	ORGANIC CARBON	.612	.366	.170
	NITROGEN (KJELDAHL)	2.238	2.656	.712
	COLOR (GSA)	5Y4/1	5Y4/1	5Y6/1

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE P-HRBR TAKEN 05SEP73 LATITUDE 21 22.00 N MARSDEN SQUARE 088-18 LENGTH 226.0 ANALYZED 04APR74
SAMPLE PH-2 DEPTH .0 LONGITUDE 158 .00 W CORER TYPE DOC PENETRATION .0

DIAM (PHI)	DIAM (MM)	PERCENT	PERCENT	PERCENT
SUBSAMPLE ID.		463 4	463 5	463 6
DEPTH INTERVAL		.0- 30.0	30.0-127.0	127.0-226.0
<-4	>16.000	17.733	25.291	14.532
-4 TO -3	16.000 TO 8.000	4.049	5.861	3.961
-3 TO -2	8.000 TO 4.000	.000	12.158	13.685
-2 TO -1	4.000 TO 2.000	1.434	5.381	7.890
-1 TO 0	2.000 TO 1.000	1.464	4.756	6.056
0 TO 1	1.000 TO .500	1.729	3.869	4.438
1 TO 2	.500 TO .250	2.659	6.035	6.349
2 TO 3	.250 TO .125	5.854	13.220	14.209
3 TO 4	.125 TO .063	5.269	6.326	8.245
4 TO 5	.063 TO .031	2.488	2.036	3.144
5 TO 6	.031 TO .016	5.952	2.400	2.512
6 TO 7	.016 TO .008	5.732	1.396	.894
7 TO 8	.008 TO .004	10.367	2.618	2.111
8 TO 9	.004 TO .002	5.732	1.527	1.048
9 TO 10	.002 TO .001	5.147	1.120	.878
>10	<.001	24.392	6.006	10.048
	GRAVEL (>2.0 MM)	23.216	48.691	40.068
	SAND (2.0-.063 MM)	16.974	34.206	39.297
	SILT (.063-.004 MM)	24.538	8.450	8.661
	CLAY (<.004 MM)	35.271	8.653	11.974
	MEAN (MM)	.0431	.8192	.4348
	MEAN (PHI)	4.537	.288	1.201
	STANDARD DEVIATION	5.554	4.509	4.547
	SKEWNESS	-.276	.376	.325
	KURTOSIS	-1.160	-.383	-.470
	ORGANIC CARBON	.400	.185	.141
	NITROGEN (KJELDAHL)	1.938	.612	.956
	COLOR (GSA)	5Y6/1	5Y6/1	5GY5/1

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE P-HR8R TAKEN 05EP73 LATITUDE 21 22.00 N MARSDEN SQUARE ~~307~~ 088-18 LENGTH 79.0 ANALYZED 0APR74
SAMPLE RH-3 DEPTH .0 LONGITUDE 158 .00 W CORER TYPE DOC PENETRATION .0

DIAM (PHI)	DIAM (MM)	SUBSAMPLE ID. 463 7 PERCENT	463 8 PERCENT
<-4	>16.000	.000	35.100
-4 TO -3	16.000 TO 8.000	.000	8.325
-3 TO -2	8.000 TO 4.000	8.467	22.251
-2 TO -1	4.000 TO 2.000	6.648	12.432
-1 TO 0	2.000 TO 1.000	8.662	6.458
0 TO 1	1.000 TO .500	14.530	4.569
1 TO 2	.500 TO .250	10.416	3.866
2 TO 3	.250 TO .125	5.760	3.383
3 TO 4	.125 TO .063	4.754	2.109
4 TO 5	.063 TO .031	5.197	.086
5 TO 6	.031 TO .016	6.172	.044
6 TO 7	.016 TO .008	3.746	.070
7 TO 8	.008 TO .004	5.349	.108
8 TO 9	.004 TO .002	2.577	.108
9 TO 10	.002 TO .001	2.425	.040
>10	<.001	15.288	1.054
	GRAVEL (>2.0 MM)	15.115	78.108
	SAND (2.0-.063 MM)	44.132	20.384
	SILT (.063-.004 MM)	20.463	.308
	CLAY (<.004 MM)	20.290	1.201
	MEAN (MM)	.0910	4.8038
	MEAN (PHI)	3.458	-2.264
	STANDARD DEVIATION	4.287	2.579
	SKEWNESS	.198	.959
	KURTOSIS	-1.151	5.586
	ORGANIC CARBON	.715	.072
	NITROGEN (KJELDAHL)	1.080	.908
	COLOR (GSA)	5Y5/1	10YR3/2

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE P-HRBR TAKEN 05EP73 LATITUDE 21 22.00 N MARSDEN SQUARE ~~307~~ 088-18 LENGTH 48.0 ANALYZED 0APR74
SAMPLE RH-4 DEPTH .0 LONGITUDE 158 .00 W CORER TYPE DOC PENETRATION .0

SUBSAMPLE ID. 463 9

DIAM (PHI)	DIAM (MM)	PERCENT
<-4	>16.000	29.324
-4 TO -3	16.000 TO 8.000	.000
-3 TO -2	8.000 TO 4.000	5.708
-2 TO -1	4.000 TO 2.000	6.116
-1 TO 0	2.000 TO 1.000	10.648
0 TO 1	1.000 TO .500	12.874
1 TO 2	.500 TO .250	6.461
2 TO 3	.250 TO .125	3.309
3 TO 4	.125 TO .063	3.262
4 TO 5	.063 TO .031	3.152
5 TO 6	.031 TO .016	3.575
6 TO 7	.016 TO .008	1.803
7 TO 8	.008 TO .004	2.791
8 TO 9	.004 TO .002	.957
9 TO 10	.002 TO .001	.737
>10	<.001	9.283

GRAVEL (>2.0 MM)	41.148
SAND (2.0-.063 MM)	36.553
SILT (.063-.004 MM)	11.322
CLAY (<.004 MM)	10.977
MEAN (MM)	.6868
MEAN (PHI)	.542
STANDARD DEVIATION	4.753
SKEWNESS	.385
KURTOSIS	-.424
ORGANIC CARBON	.269
NITROGEN (KJELDAHL)	.885
COLOR (GSA)	5Y5/1

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE P-HRBR TAKEN 05EP73 LATITUDE 21 22.00 N MARSDEN SQUARE 088-18 LENGTH 173.0 ANALYZED 0APR74
SAMPLE PH-5 DEPTH .0 LONGITUDE 158 .00 W CORER TYPE DOC PENETRATION .0

DIAM (PHI)	DIAM (MM)	PERCENT	PERCENT	PERCENT
SUBSAMPLE ID.		463 10	463 11	463 12
<-4	>16.000	.000	.000	25.401
-4 TO -3	16.000 TO 8.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	.000	.000	2.675
-2 TO -1	4.000 TO 2.000	.293	2.824	1.715
-1 TO 0	2.000 TO 1.000	.275	.869	1.705
0 TO 1	1.000 TO .500	.440	.701	2.471
1 TO 2	.500 TO .250	1.036	1.258	4.819
2 TO 3	.250 TO .125	1.833	2.920	11.046
3 TO 4	.125 TO .063	.999	2.398	7.106
4 TO 5	.063 TO .031	1.008	2.356	3.880
5 TO 6	.031 TO .016	4.674	6.973	5.329
6 TO 7	.016 TO .008	9.531	10.158	4.308
7 TO 8	.008 TO .004	13.655	12.355	7.085
8 TO 9	.004 TO .002	10.539	8.215	3.798
9 TO 10	.002 TO .001	5.040	5.286	2.899
>10	<.001	50.678	43.687	15.763
	GRAVEL (>2.0 MM)	.293	2.824	29.791
	SAND (2.0-.063 MM)	4.582	8.145	27.147
	SILT (.063-.004 MM)	28.867	31.842	20.602
	CLAY (<.004 MM)	66.257	57.188	22.460
	MEAN (MM)	.0023	.0039	.1342
	MEAN (PHI)	8.735	7.997	2.898
	STANDARD DEVIATION	2.310	3.054	5.438
	SKEWNESS	-.747	-.673	-.048
	KURTOSIS	2.335	1.372	-1.338
	ORGANIC CARBON	1.628	1.230	.530
	NITROGEN (KJELDAHL)	3.286	1.679	1.030
	COLOR (6SA)	10Y2/2	5GY2/1	5Y3/4

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE P-HRBR TAKEN 05EP73 LATITUDE 21 22.00 N MARSDEN SQUARE 088-18 LENGTH 183.0 ANALYZED 0APR74
SAMPLE PH-6 DEPTH .0 LONGITUDE 158 .00 W CORER TYPE DOC PENETRATION .0

DIAM (PHI)	DIAM (MM)	PERCENT	PERCENT	PERCENT
SUBSAMPLE ID.		463 13	463 14	463 15
<-4	>16.000	.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000	.000
-3 TO -2	8.000 TO 4.000	.000	.000	.000
-2 TO -1	4.000 TO 2.000	6.166	10.788	15.257
-1 TO 0	2.000 TO 1.000	5.263	7.880	1.854
0 TO 1	1.000 TO .500	.629	.733	2.022
1 TO 2	.500 TO .250	1.749	1.221	4.613
2 TO 3	.250 TO .125	2.877	2.664	15.996
3 TO 4	.125 TO .063	1.337	2.309	8.308
4 TO 5	.063 TO .031	3.325	3.751	1.567
5 TO 6	.031 TO .016	3.181	5.838	4.819
6 TO 7	.016 TO .008	3.904	8.524	5.647
7 TO 8	.008 TO .004	14.747	10.588	7.303
8 TO 9	.004 TO .002	9.181	6.104	5.647
9 TO 10	.002 TO .001	4.482	4.329	5.115
>10	<.001	43.158	35.272	21.850
	GRAVEL (>2.0 MM)	6.166	10.788	15.257
	SAND (2.0-.063 MM)	11.856	14.806	32.793
	SILT (.063-.004 MM)	25.157	28.701	19.337
	CLAY (<.004 MM)	56.821	45.705	32.613
	MEAN (MM)	.0057	.0115	.0303
	MEAN (PHI)	7.451	6.440	5.043
	STANDARD DEVIATION	3.854	4.308	4.255
	SKEWNESS	-.605	-.378	-.059
	KURTOSIS	.194	-.858	-1.337
	ORGANIC CARBON	1.442	.964	.621
	NITROGEN (KJELDAHL)	3.332	2.466	1.356
	COLOR (GSA)	5Y2/1	5Y3/1	5Y5/1

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SEDIMENT SIZE AND COMPOSITION DATA

CRUISE P-HRBR TAKEN 05EP73 LATITUDE 21 22.00 N MARSDEN SQUARE 088-18 LENGTH 79.0 ANALYZED 0APR74
SAMPLE PH-7 DEPTH .0 LONGITUDE 158 .00 W CORER TYPE DOC PENETRATION .0

DIAM (PHI)	DIAM (MM)	SUBSAMPLE ID. 463 16 PERCENT	SUBSAMPLE ID. 463 17 PERCENT
<-4	>16.000	.000	.000
-4 TO -3	16.000 TO 8.000	.000	.000
-3 TO -2	8.000 TO 4.000	.000	.000
-2 TO -1	4.000 TO 2.000	1.415	.759
-1 TO 0	2.000 TO 1.000	.368	1.033
0 TO 1	1.000 TO .500	.368	1.438
1 TO 2	.500 TO .250	.943	4.370
2 TO 3	.250 TO .125	5.046	15.731
3 TO 4	.125 TO .063	6.649	9.534
4 TO 5	.063 TO .031	5.753	1.748
5 TO 6	.031 TO .016	7.922	4.608
6 TO 7	.016 TO .008	9.620	5.005
7 TO 8	.008 TO .004	9.856	9.693
8 TO 9	.004 TO .002	7.356	6.515
9 TO 10	.002 TO .001	5.093	5.760
>10	<.001	39.611	33.806
	GRAVEL (>2.0 MM)	1.415	.759
	SAND (2.0-.063 MM)	13.374	32.106
	SILT (.063-.004 MM)	33.151	21.054
	CLAY (<.004 MM)	52.061	46.081
	MEAN (MM)	.0049	.0089
	MEAN (PHI)	7.679	6.818
	STANDARD DEVIATION	2.995	3.504
	SKEWNESS	-.409	-.195
	KURTOSIS	-.133	-1.299
	ORGANIC CARBON	2.328	1.241
	NITROGEN (KJELDAHL)	6.300	1.604
	COLOR (GSA)	5Y2/1	5Y3/1

09005055

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE P-HRBR TAKEN 05EP73 LATITUDE 21 22.00 N MARSDEN SQUARE 058-18 [redacted] LENGTH 140.0 ANALYZED 0APR74
SAMPLE PH-8 DEPTH .0 LONGITUDE 158 .00 W CORER TYPE DOC PENETRATION .0

DIAM (PHI)	DIAM (MM)	PERCENT	PERCENT	PERCENT
SUBSAMPLE ID.		463 18	463 19	463 20
<-4	>16.000	.000	.000	27.106
-4 TO -3	16.000 TO 8.000	.000	.000	4.389
-3 TO -2	8.000 TO 4.000	.000	.000	2.819
-2 TO -1	4.000 TO 2.000	4.828	3.277	4.760
-1 TO 0	2.000 TO 1.000	2.313	1.784	3.462
0 TO 1	1.000 TO .500	2.375	1.977	2.346
1 TO 2	.500 TO .250	4.127	2.987	2.476
2 TO 3	.250 TO .125	6.268	5.553	3.122
3 TO 4	.125 TO .063	6.697	6.899	2.235
4 TO 5	.063 TO .031	3.076	5.006	1.669
5 TO 6	.031 TO .016	8.021	7.067	3.462
6 TO 7	.016 TO .008	11.564	8.707	4.389
7 TO 8	.008 TO .004	13.900	9.002	7.881
8 TO 9	.004 TO .002	6.463	7.824	5.131
9 TO 10	.002 TO .001	3.932	5.342	3.400
>10	<.001	26.437	34.577	21.357
	GRAVEL (>2.0 MM)	4.828	3.277	39.073
	SAND (2.0-.063 MM)	21.780	19.198	13.639
	SILT (.063-.004 MM)	36.560	29.782	17.401
	CLAY (<.004 MM)	36.832	47.743	29.887
	MEAN (MM)	.0114	.0076	.1420
	MEAN (PHI)	6.453	7.035	2.816
	STANDARD DEVIATION	3.591	3.513	6.076
	SKEWNESS	-.309	-.374	.001
	KURTOSIS	-.605	-.476	-1.676
	ORGANIC CARBON	2.269	2.295	1.532
	NITROGEN (KJELDAHL)	2.400	1.936	1.533
	COLOR (GSA)	5YR2/1	5G2/1	5G2/1

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