

**Benthic Macrofauna and
Associated Hydrographic Observations
Collected in Newark Bay, New Jersey,
between June 1993 and March 1994**

by

**Linda L. Stehlik, Stuart J. Wilk,
Robert A. Pikanowski, Donald G. McMillan,
and Eileen M. MacHaffie**

July 2005

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ABSTRACT

Summary tabulations are presented for quarterly benthic macrofaunal collections at 25 station locations within Newark Bay and the lower Passaic and Hackensack rivers, NJ, for the period June 1993 through March 1994. Approximately 75 benthic invertebrate taxa were found in the collections. They included marine to oligohaline species and were dominated by polychaetes.

INTRODUCTION

Geographic Setting

Newark Bay, part of the Hudson-Raritan Estuary system, New Jersey, lies at the mouths of the Hackensack and Passaic rivers. The estuary is one of the world's busiest ports as it is part of Greater New York City (Fig. 1). The west shore of this water body is heavily industrialized, containing oil refineries, chemical and other manufacturing facilities, and serves as a major east coast container shipping port. The east shore is bulkheaded and contains industry, residential areas, and parkland. Little undisturbed shoreline habitat exists on either side of the bay. This bay, which leads to Newark, New Jersey's largest city, has been a major navigation route since colonial times and was a fishery and oyster seed producing area until the twentieth century. Dredging channels to improve navigation began before the Civil War.

The freshwater input to Newark Bay includes the Hackensack-Passaic watershed and the Hackensack Meadowlands. As the watershed and its floodplains became physically altered by filling and construction of abutments, flooding became a problem for certain communities. To relieve this problem, several proposals were investigated, one of which would have diverted flood waters from above the affected communities through a large tunnel directly into the northern portion of Newark Bay (see Wilk et al., 1997). The National Marine Fisheries Service was asked to survey the fishery and related biological resources that might be affected by water effluents from this proposed tunnel. Most of the results of this request were reported in Wilk et al. (1997) but the benthic macrofaunal data were not and are herein provided.

Objectives

The objective of this part of the overall survey effort was to characterize the benthic macrofauna communities in areas that might be affected by the construction or subsequent use of the proposed tunnel. Although that proposed tunnel project has not been implemented, there are or could be other habitat-related issues in this bay where the results of this brief survey may provide some relevant and useful background information. The results are presented here without any attempt at further ecological analysis to expedite making the data available.

METHODS AND MATERIALS

Twenty-five strata in northern and central Newark Bay were chosen for benthic sampling (Fig. 1). Eighteen strata in channels (coded B) were sampled from the RV *Gloria Michelle*, while seven strata on the east side of the bay in < 3 m depths (coded V) were sampled from a small boat. Seven strata (B1, B2, B3, B4, B11, B12, and B13) were located north of the Route 78 bridge and the Lehigh Valley railroad bridge. Benthos was sampled quarterly: June 1993, August 1993, December 1993, and March 1994. One grab per stratum was taken, as close to the center of the stratum as possible. The total number of grabs was 100.

LORAN C coordinates or GPS positions, latitude, longitude, depth, and time were recorded when each grab was taken. Concurrently, water temperature, salinity, and dissolved oxygen were measured at 1 m intervals from the water surface to the bottom with a Hydrolab® Surveyor III.

An 0.04 m² (8" x 8") Young-modified Van Veen grab was used to collect the samples. A grab was considered successful if the surface was level and the jaws were at least 75% full or filled to a depth of 7 cm. If a cast was unsuccessful, it was repeated. Appearance of the sediment, visible macrofauna, and debris were noted. The samples were washed in an 0.5 mm mesh sieve to remove sediment and meiofauna (those organisms that pass through an 0.5 mm sieve). They were preserved in stained, buffered 10 % Formalin and transferred to 70% ethanol three days to two weeks later.

Sorting and identification of the macrofauna were contracted to Cove Corporation, Lusby, MD. Each sample was completely sorted, using dissecting microscopes. Meiofauna such as nematodes, copepods, and ostracods that had been retained in the samples were discarded. Under the corporation's quality control routine, a randomly selected 10% of the samples were resorted, and were acceptable only when 95% or more of the animals were found.

Specimens were identified to the lowest possible taxonomic level (usually species). Rhynchocoels and oligochaetes were not further identified. Number of individuals of each taxon was counted. A randomly selected 10% of the samples were checked by senior taxonomists for accuracy of identification.

Wet weight (blot-dried on absorbent toweling for three minutes) biomass was determined (± 1 mg) three times and the mean weight was reported for each taxon. Colonial species (e.g. barnacles, tunicates) were removed from substrates for weighing. Unidentified fragments of major taxa (e.g. polychaetes, amphipods) were pooled. A randomly selected 10% of the samples were reweighed, and were accepted if the percent weighing error was no more than 20%.

RESULTS

Benthic grab samples and hydrographic data were obtained at all strata and dates (Table 1). The sediment at strata B1, B2, B3, and B4 north of the bridges was generally soft with varying amounts of gravel, shell, sand, silt, and clay. At strata B11, B12, and B13 at the mouth of the Passaic River, grabs contained soft black silty clay. Grabs at channel strata B8, B9, and B10 usually contained lumps of thick, hard, red clay. At all other stations south of the bridges, in channels and in the shallow strata V1-V7, grabs generally contained light, soft silt and clay with some shell. Detritus, consisting of bits of plant matter, wood, and plastic trash, was found in most locations. A few samples contained fuel oil, but not consistently at the same stations.

The samples contained living softclams (*Mya arenaria*), dwarf surfclams (*Mulinia lateralis*), other mollusks, errant and tubicolous polychaetes, crustaceans, and lesser numbers of other taxa (Table 2). Total number of individuals collected was as follows: June, 5758; August, 6102; December, 6776; March, 5698. Overall abundance and biomass of the macrofauna are presented per sampling period in Table 3 and the numerically top ten dominant taxa for the entire survey period are listed in Table 4. Large softclams in some samples added greatly to the biomass.

The full collection results for this survey are found in Appendix A. *Tharyx* sp. A and *Monoculodes* sp. 1 refer to species that were identifiable but did not have proper taxonomic names at the time of the report.

ACKNOWLEDGMENTS

The late Anthony Pacheco was an integral part of the overall survey effort. Frank Steimle and Joseph Vitaliano contributed to the final preparation of the report.

REFERENCES

Cerrato, R.M. 1986. The benthic fauna of Newark Bay. Spec. Report 68, Marine Research Center, State Univ. of N.Y.

Coch, N. K. 1986. Sediment characteristics and facies distributions in the Hudson system. pp. 109-129 in: N. K. Coch and H. J. Bokuniewicz, eds. Sedimentation in the Hudson system: the Hudson River and contiguous waterways. Special Issue, *Northeastern Geology* 8: 94-170.

Steimle, F. W., and J. Caracciolo-Ward. 1989. A reassessment of the status of the benthic macrofauna of the Raritan Estuary. *Estuaries* 12:145-156.

Wilk, S. J., D. G. McMillan, R. A. Pikanowski, E. M. MacHaffie, A. L. Pacheco, and L. L. Stehlik. 1997. Fish, megainvertebrates, and associated hydrographic observations collected in Newark Bay, New Jersey, during May 1993 - April 1994. Northeast Fish. Sci. Cent. Ref. Doc. 97-10, June 1997, 91 p., NMFS, Woods Hole, MA.

Table 1. Stations sampled in Newark Bay, NJ from June 1993 to March 1994, including station code, location, benthic invertebrates collected, and hydrographic information.

Station Information						Benthic Invertebrates Collected			Hydrographic Observations			
Sta. No.	Sta. Code	Date M/D	Time EST	Latitude (N)	Longitude (W)	Number of Individuals	Weight (g)	Number of Species	Depth (m)	Temperature (°C)	Salinity (ppt)	Dissolved Oxygen (mg/l)
1993												
1	B10	6/23	1117	40°40.2'	74°08.3'	44	1.200	9	14.2	19.0	23.2	6.0
2	B9	6/23	1132	40°40.1'	74°08.1'	78	0.351	6	13.7	19.1	23.7	6.0
3	B8	6/23	1147	40°40.4'	74°08.1'	12	0.016	10	11.8	19.4	23.5	6.0
4	B18	6/23	1204	40°40.5'	74°08.3'	53	0.072	11	13.7	19.3	23.7	6.0
5	B17	6/23	1221	40°40.7'	74°08.5'	36	0.017	6	13.4	19.2	23.8	5.9
6	B16	6/23	1231	40°41.0'	74°08.4'	7	0.002	2	12.4	20.2	22.3	5.6
7	B14	6/24	805	40°41.4'	74°08.1'	24	0.221	7	12.2	19.9	22.7	5.5
8	B15	6/24	813	40°41.2'	74°08.0'	38	1.452	8	12.7	20.0	22.7	5.6
9	B7	6/24	822	40°40.9'	74°07.8'	83	0.173	13	13.2	20.0	22.7	5.7
10	B6	6/24	833	40°41.3'	74°07.6'	124	1.115	19	11.7	20.0	23.0	5.8
11	B5	6/24	839	40°41.5'	74°07.4'	389	40.522	23	12.1	20.0	22.7	5.6
12	V1	6/24	925	40°41.4'	74°07.4'	645	0.605	17	2.8	20.4	21.7	5.9
13	V2	6/24	935	40°41.5'	74°07.1'	611	2.391	19	3.6	20.6	21.5	5.8
14	V3	6/24	955	40°41.0'	74°07.6'	94	0.783	13	3.5	20.1	22.2	5.9
15	V4	6/24	1002	40°40.9'	74°07.4'	54	2.489	10	3.2	20.5	21.8	5.9
16	V5	6/24	1021	40°40.6'	74°07.8'	83	6.539	9	3.4	20.1	22.2	5.9
17	V6	6/24	1033	40°40.6'	74°07.6'	127	10.267	10	3.0	20.2	22.3	5.9
18	V7	6/24	1050	40°40.2'	74°07.9'	132	5.176	6	3.3	20.1	22.4	5.9
19	B11	6/24	1131	40°43.0'	74°07.4'	53	0.040	5	9.1	20.2	22.2	5.7
20	B12	6/24	1140	40°42.8'	74°07.4'	90	0.039	8	10.4	20.2	21.9	5.6
21	B13	6/24	1148	40°42.5'	74°07.3'	206	1.841	13	10.2	20.1	22.3	5.8
22	B1	6/24	1202	40°43.0'	74°06.5'	51	0.893	11	11.3	20.3	22.4	5.7
23	B2	6/24	1218	40°42.8'	74°06.7'	1981	10.597	28	10.9	20.3	22.3	5.7
24	B3	6/24	1220	40°42.5'	74°07.1'	242	3.004	19	11.1	20.1	22.3	5.8
25	B4	6/24	1253	40°42.2'	74°07.1'	501	4.156	23	13.8	20.0	22.5	5.7
26	B1	8/25	817	40°42.9'	74°06.5'	463	0.334	14	9.6	25.5	19.2	3.3
27	B2	8/25	825	40°42.8'	74°06.8'	509	0.620	16	9.1	25.0	20.1	3.7
28	B3	8/25	831	40°42.6'	74°07.0'	1160	1.811	21	10.2	25.0	20.4	3.6
29	B11	8/25	843	40°43.0'	74°07.4'	95	0.305	9	8.0	24.3	22.6	3.8
30	B12	8/25	849	40°42.7'	74°07.4'	75	0.095	10	8.1	24.5	22.0	3.7
31	B13	8/25	855	40°42.5'	74°07.3'	134	0.112	9	8.5	24.1	22.3	3.7
32	B4	8/25	901	40°42.2'	74°07.2'	259	0.575	13	10.4	24.7	20.9	3.7
33	B5	8/25	912	40°41.7'	74°07.4'	1402	5.056	25	11.7	24.2	22.9	3.9
34	B6	8/25	922	40°41.3'	74°07.6'	153	5.095	14	11.2	24.2	22.8	4.1
35	B7	8/25	931	40°41.1'	74°07.8'	18	0.170	6	12.0	24.1	23.2	4.0
36	B8	8/25	940	40°40.6'	74°08.0'	82	0.548	8	12.1	24.1	23.3	4.0
37	B9	8/25	951	40°40.1'	74°08.2'	23	0.007	5	12.4	24.1	24.0	4.1
38	B10	8/25	959	40°40.0'	74°08.4'	4	0.013	3	13.0	24.0	24.0	4.1
39	B18	8/25	1010	40°40.5'	74°08.2'	28	0.120	7	11.0	24.1	23.6	4.1
40	B17	8/25	1019	40°40.8'	74°08.6'	62	0.664	10	12.1	24.2	23.2	3.9
41	V7	8/25	1036	40°40.3'	74°07.9'	117	2.578	8	2.5	24.2	22.4	5.1
42	V6	8/25	1044	40°40.5'	74°07.8'	161	6.216	10	2.9	24.2	22.3	5.0
43	V5	8/25	1052	40°40.7'	74°07.8'	207	6.641	11	2.5	24.4	22.4	4.3
44	V4	8/25	1104	40°40.8'	74°07.5'	114	7.885	9	2.3	24.2	21.9	5.0
45	V3	8/25	1110	40°40.9'	74°07.5'	271	1.381	14	2.8	24.3	21.7	4.7
46	V2	8/25	1121	40°41.2'	74°07.2'	275	3.469	16	2.6	24.4	21.3	5.1
47	V1	8/25	1128	40°41.4'	74°07.3'	437	0.640	14	3.3	24.5	21.7	4.3
48	B15	8/25	1147	40°41.2'	74°07.9'	23	0.193	7	12.5	24.1	23.3	4.0

Station Information						Benthic Invertebrates Collected			Hydrographic Observations			
Sta. No.	Sta. Code	Date M/D	Time EST	Latitude (N)	Longitude (W)	Number of Individuals	Weight (g)	Number of Species	Depth (m)	Temperature (°C)	Salinity (ppt)	Dissolved Oxygen (mg/l)
1993												
49	B16	8/25	1158	40°41.1'	74°08.3'	17	0.031	7	12.4	24.2	23.1	4.0
50	B14	8/25	1208	40°41.4'	74°08.1'	13	0.863	5	13.6	24.1	23.6	4.1
51	B1	12/14	1158	40°42.9'	74°06.6'	794	5.132	25	10.7	6.9	15.3	9.1
52	B2	12/14	1207	40°42.8'	74°06.7'	1105	2.070	19	9.1	6.9	15.3	9.1
53	B3	12/14	1214	40°42.6'	74°07.0'	412	1.969	23	10.6	6.9	15.3	9.1
54	B4	12/14	1220	40°42.2'	74°07.1'	173	6.893	19	12.3	7.0	15.7	9.0
55	B11	12/14	1237	40°43.1'	74°07.3'	12	0.006	8	7.0	7.0	16.3	8.9
56	B12	12/14	1244	40°42.7'	74°07.3'	142	0.380	14	9.2	7.0	16.1	8.9
57	B13	12/14	1249	40°42.5'	74°07.2'	454	0.893	25	10.2	7.0	16.0	8.9
58	B5	12/15	919	40°41.6'	74°07.4'	1092	4.551	30	13.5	7.2	18.2	9.1
59	B6	12/15	930	40°41.3'	74°07.6'	318	0.203	15	13.2	7.3	18.8	9.0
60	B15	12/15	940	40°41.2'	74°07.9'	131	0.080	9	13.0	7.3	19.1	8.9
61	B14	12/15	950	40°41.4'	74°08.1'	70	0.105	5	14.4	7.2	18.8	8.8
62	B16	12/15	1000	40°41.2'	74°08.3'	179	0.278	10	13.4	7.3	17.5	8.9
63	B7	12/15	1013	40°40.9'	74°07.9'	166	0.420	16	13.9	7.3	19.0	8.9
64	B8	12/15	1023	40°40.6'	74°08.0'	250	2.118	13	14.3	7.3	19.6	8.9
65	B9	12/15	1031	40°40.1'	74°08.2'	111	0.333	21	13.8	7.3	19.2	8.9
66	B10	12/15	1040	40°40.1'	74°08.4'	59	0.309	10	14.8	7.3	19.2	8.9
67	B18	12/15	1052	40°40.5'	74°08.3'	10	0.018	4	14.5	7.3	18.9	8.9
68	B17	12/15	1101	40°40.8'	74°08.7'	94	0.151	7	14.2	7.3	19.8	8.8
69	V7	12/15	1215	40°40.2'	74°08.2'	96	0.704	11	2.9	6.8	16.7	9.2
70	V6	12/15	1230	40°40.5'	74°07.9'	167	1.555	14	2.8	6.8	16.4	9.2
71	V5	12/15	1245	40°40.5'	74°08.1'	115	2.249	9	2.7	6.9	17.4	9.4
72	V4	12/15	1255	40°40.7'	74°07.8'	161	0.849	12	2.6	6.8	16.3	9.1
73	V3	12/15	1300	40°41.1'	74°07.8'	97	3.363	14	2.8	6.7	15.3	9.4
74	V2	12/15	1310	40°41.2'	74°07.5'	136	0.985	16	2.4	6.7	14.9	9.4
75	V1	12/15	1325	40°41.4'	74°07.5'	432	0.311	22	2.7	6.8	14.8	9.4
1994												
76	B5	3/10	951	40°41.5'	74°07.5'	545	9.817	21	12.7	1.9	19.0	11.2
77	B11	3/10	1015	40°43.0'	74°07.4'	22	0.042	6	7.8	1.9	18.6	10.8
78	B12	3/10	1022	40°42.8'	74°07.3'	137	0.246	11	9.9	1.9	18.7	10.8
79	B13	3/10	1029	40°42.6'	74°07.3'	264	0.396	16	9.2	2.0	18.6	10.8
80	B1	3/10	1056	40°42.9'	74°06.5'	422	0.508	15	10.1	2.4	15.7	10.9
81	B2	3/10	1101	40°42.9'	74°06.6'	832	1.919	25	10.6	2.4	15.8	10.8
82	B3	3/10	1110	40°42.7'	74°06.9'	763	1.789	16	8.8	2.2	17.0	10.8
83	B4	3/10	1119	40°42.3'	74°07.0'	234	1.159	17	8.4	2.5	15.2	10.9
84	V1	3/10	1144	40°41.4'	74°07.6'	235	0.273	14	2.7	2.4	13.2	11.3
85	V2	3/10	1158	40°41.4'	74°07.5'	568	3.682	25	2.8	2.4	13.3	11.1
86	V3	3/10	1204	40°41.0'	74°07.8'	381	1.278	14	2.4	2.3	13.8	11.0
87	V4	3/10	1225	40°41.0'	74°07.9'	197	4.663	15	2.4	2.4	13.4	11.0
88	V6	3/10	1233	40°40.8'	74°08.0'	102	0.706	9	2.1	2.3	14.7	10.9
89	V5	3/10	1249	40°40.7'	74°07.9'	103	0.623	12	2.2	2.4	13.5	11.1
90	V7	3/10	1257	40°40.4'	74°08.1'	116	0.687	12	2.0	2.3	14.8	11.0
91	B10	3/10	1312	40°40.4'	74°08.2'	181	1.761	20	12.6	1.8	19.4	11.0
92	B9	3/10	1320	40°40.2'	74°08.1'	61	0.731	8	11.3	1.8	19.2	10.8
93	B8	3/10	1354	40°40.4'	74°08.1'	7	0.001	1	13.2	1.8	19.3	10.8
94	B18	3/10	1402	40°40.6'	74°08.3'	35	0.156	4	11.1	1.8	19.4	10.8
95	B17	3/10	1416	40°40.7'	74°08.6'	135	2.093	8	12.4	1.8	19.5	10.6
96	B16	3/10	1433	40°41.1'	74°08.4'	147	0.293	6	11.6	1.8	19.2	10.7
97	B14	3/10	1439	40°41.3'	74°08.1'	71	0.353	7	12.2	1.8	19.2	10.3
98	B15	3/10	1450	40°41.2'	74°08.0'	14	0.006	2	11.7	1.8	19.1	10.6
99	B7	3/10	1458	40°40.9'	74°07.9'	40	0.444	5	12.9	1.8	19.3	10.6
100	B6	3/10	1506	40°41.3'	74°07.6'	86	0.513	12	11.5	1.8	19.0	10.5

Table 2. Species list of benthic macrofaunal taxa collected in Newark Bay, NJ from June 1993 to March 1994.

CNIDARIA

Anthozoa

RHYNCHOCOELA

Rhynchocoela

POLYCHAETA

Lepidonotus squamatus
Lepidonotus sublevis
Hypereteone (Eteone) heteropoda
Hypereteone (Eteone) foliosa
Paranaitis speciosa
Eumida sanguinea
Podarkeopsis levifuscina
Microphthalmus szelkowitzii
Proceraea cornuta
Streptosyllis pettiboneae
Nereididae
Neanthes succinea
Nephtys incisa
Glycera spp.
Glycera americana
Leitoscoloplos sp.
Leitoscoloplos robustus
Polydora spp.
Polydora cornuta
Spio setosa
Pygospio elegans
Streblospio benedicti
Marenzelleria viridis
Tharyx sp.
Heteromastus filiformis
Mediomastus ambiseta
Sabellaria vulgaris
Pectinaria gouldii
 Ampharetidae
Asabellides oculata
 Sabellidae
 Polychaete fragments

OLIGOCHAETA

Oligochaeta

MOLLUSCA

Gastropoda
Epitonium sp.
Odostomia sp.

MOLLUSCA

Rictaxis punctostriatus
Cylichnella (Acteocina) bidentata
Doridella obscura
Mytilus edulis
Mulinia lateralis
Ensis directus
Macoma balthica
Tellina agilis
Mya arenaria
Barnea truncate
 Bivalve siphons

CRUSTACEA

Balanus improvisus
Neomysis americana
Leucon americanus
Oxyurostylis smithi
Cyathura polita
Sphaeroma quadridentatum
Edotea triloba
Ampelisca spp.
Ampelisca abdita
Microdeutopus spp.
Microdeutopus gryllotalpa
Corophium spp.
Corophium acutum
Unciola serrata
Elasmopus levis
Melita nitida
Monoculodes sp.
Parapleustes aestuarius
Paracaprella tenuis
Crangon septemspinosa
Cancer irroratus
 Xanthidae
Rhithropanopeus harrisi

INSECTA

Chironomidae

ECHINODERMATA

Asteroidea
 Echinoidea

ASCIDIACEA

Molgula manhattensis

Table 3. Phylogenetic listing of benthic organisms collected in Newark Bay, NJ by month from June 1993 to March 1994, with total number and total biomass (g).

Taxon	June 1993		August 1993		December 1993		March 1994	
	Number	grams	Number	grams	Number	grams	Number	grams
CNIDARIA								
Anthozoa			15	0.583	8	0.299	8	0.229
RHYNCHOCOELA								
Rhynchozoela			3	0.010	9	0.017	1	0.000
POLYCHAETA								
<i>Lepidonotus squamatus</i>					1	0.005		
<i>Lepidonotus sublevis</i>					1	0.029		
<i>Hypereteone heteropoda</i>	53	0.030	21	0.003	42	0.009	30	0.008
<i>Hypereteone foliosa</i>					2	0.021	2	0.008
<i>Paranaitis speciosa</i>	1	0.001						
<i>Eumida sanguinea</i>					17	0.003	3	0.000
<i>Podarkeopsis levifuscina</i>					4	0.000		
<i>Microphthalmus scelzkowii</i>	4	0.000						
<i>Proceraea cornuta</i>	1	0.000					1	0.000
<i>Streptosyllis pettiboneae</i>	2	0.000			2	0.000		
<i>Nereididae</i>	3	0.000	2	0.000				
<i>Neanthes succinea</i>	10	0.391	1	0.089	7	0.044	10	0.120
<i>Nephtys incisa</i>	1	0.004	1	0.077	1	0.074	1	0.251
<i>Glycera</i> spp.			1	0.041				
<i>Glycera americana</i>	1	0.013	4	2.238	52	0.873	28	0.641
<i>Leitoscoloplos</i> sp.	24	0.053	7	0.030	257	0.227		
<i>Leitoscoloplos robustus</i>	496	6.018	509	5.346	784	3.478	791	3.002
<i>Polydora</i> spp.					1	0.000		
<i>Polydora cornuta</i>	225	0.060	46	0.021	124	0.174	146	0.237
<i>Spio setosa</i>	31	0.060	12	0.048	3	0.012	6	0.017
<i>Pygospio elegans</i>			2	0.000				
<i>Streblospio benedicti</i>	3002	0.634	3203	0.926	1337	0.761	954	0.467
<i>Marenzelleria viridis</i>	11	0.074	7	0.077			4	0.000
<i>Tharyx</i> sp.	290	0.112	868	0.592	1268	1.419	1223	1.324
<i>Heteromastus filiformis</i>	3	0.026	15	0.021	11	0.010	24	0.083
<i>Mediomastus ambiseta</i>	324	0.028	550	0.073	383	0.262	502	0.027
<i>Sabellaria vulgaris</i>	43	0.198	37	0.043	280	1.255	47	0.143
<i>Pectinaria gouldii</i>	9	1.122	6	0.187	53	3.789	63	3.808
Ampharetidae	2	0.000						
<i>Asabellides oculata</i>	54	0.189	11	0.029	16	0.038	3	0.000
Sabellidae					1	0.000	1	0.001
Polychaete fragments	0	0.134	0	0.098	0	0.080	0	0.059
OLIGOCHAETA								
Oligochaeta	356	0.047	290	0.019	223	0.018	195	0.017

Taxon	June 1993		August 1993		December 1993		March 1994	
	Number	grams	Number	grams	Number	grams	Number	grams
MOLLUSCA								
Gastropoda					1	0.000	1	0.000
<i>Epitonium</i> sp.							2	0.003
<i>Odostomia</i> sp.	53	0.032	22	0.004	319	0.119	183	0.070
<i>Rictaxis punctostriatus</i>			57	0.016	107	0.176	29	0.055
<i>Cylichnella bidentata</i>					1	0.000		
<i>Doradella obscura</i>	1	0.000					4	0.002
<i>Mytilus edulis</i>	9	0.218	4	0.489	2	2.828		
<i>Mulinia lateralis</i>	120	15.581	177	13.894	190	4.247	155	3.197
<i>Ensis directus</i>	2	0.003			14	0.402		
<i>Macoma balthica</i>	17	0.067	4	0.103	2	0.419	10	1.465
<i>Tellina agilis</i>	5	0.001	1	0.000	2	0.021	1	0.000
<i>Mya arenaria</i>	124	64.081	30	18.583	228	12.693	150	14.162
<i>Barnea truncata</i>							2	0.004
Bivalve siphons					14	1.021	3	0.575
CRUSTACEA								
<i>Balanus improvisus</i>	118	0.409	6	0.060	3	0.002	34	2.594
<i>Neomysis americana</i>	28	0.008	6	0.004	3	0.003		
<i>Leucon americanus</i>	148	0.024	65	0.011	598	0.154	972	0.273
<i>Oxyurostylis smithi</i>	4	0.000			2	0.000		
<i>Cyathura polita</i>	1	0.000	1	0.014	1	0.012		
<i>Sphaeroma quadridentata</i>					1	0.000		
<i>Edotea triloba</i>	48	0.019	19	0.004	37	0.019	10	0.008
<i>Ampelisca</i> spp.			1	0.000	1	0.001		
<i>Ampelisca abdita</i>	3	0.004			23	0.033	2	0.000
<i>Microdeutopus</i> spp.	4	0.000						
<i>Microdeutopus gryllotalpa</i>			2	0.000	1	0.000		
<i>Corophium</i> spp.					1	0.000		
<i>Corophium acutum</i>			1	0.000				
<i>Unciola serrata</i>	15	0.020	80	0.041	272	0.207	65	0.059
<i>Elasmopus laevis</i>					1	0.000		
<i>Melita nitida</i>	3	0.005	2	0.000	7	0.004	8	0.006
<i>Monoculodes</i> sp.	8	0.002			4	0.000		
<i>Parapleustes aestuarius</i>	6	0.000			3	0.005	1	0.000
<i>Paracaprella tenuis</i>	1	0.000	1	0.000				
<i>Crangon septemspinosa</i>	5	0.627	2	0.114	1	0.128	5	0.384
<i>Cancer irroratus</i>	1	0.007						
Xanthidae	1	0.000						
<i>Rhithropanopeus harrisi</i>	13	0.120	8	0.649	5	0.305	3	0.565
INSECTA								
Chironomidae					1	0.000		
ECHINODERMATA								
Asteroidea							1	0.000
Echinoidea							1	0.000
ASCIDIACEA								
<i>Molgula manhattensis</i>	74	3.541	2	0.885	44	0.232	13	0.270

Table 4. Dominant benthic taxa (by total number) collected on 0.5mm sieves in Newark Bay, NJ from June 1993 to March 1994.

Date; taxon	Type	Total number
June 1993		
<i>Streblospio benedicti</i>	Polychaeta	3002
<i>Leitoscoloplos robustus</i>	Polychaeta	496
Oligochaeta	Oligochaeta	356
<i>Mediomastus ambiseta</i>	Polychaeta	324
<i>Tharyx</i> sp.	Polychaeta	290
<i>Polydora cornuta</i>	Polychaeta	225
<i>Leucon americanus</i>	Crustacea	148
<i>Mya arenaria</i>	Mollusca	124
<i>Mulinia lateralis</i>	Mollusca	120
<i>Balanus improvisus</i>	Crustacea	118
All others	-	555
August 1993		
<i>Streblospio benedicti</i>	Polychaeta	3203
<i>Tharyx</i> sp.	Polychaeta	868
<i>Mediomastus ambiseta</i>	Polychaeta	550
<i>Leitoscoloplos robustus</i>	Polychaeta	509
Oligochaeta	Oligochaeta	290
<i>Mulinia lateralis</i>	Mollusca	177
<i>Unciola serrata</i>	Crustacea	80
<i>Leucon americanus</i>	Crustacea	65
<i>Rictaxis punctostriatus</i>	Mollusca	57
<i>Polydora cornuta</i>	Polychaeta	46
All others	-	257
December 1993		
<i>Streblospio benedicti</i>	Polychaeta	1337
<i>Tharyx</i> sp.	Polychaeta	1268
<i>Leitoscoloplos robustus</i>	Polychaeta	784
<i>Leucon americanus</i>	Crustacea	598
<i>Mediomastus ambiseta</i>	Polychaeta	383
<i>Odostomia</i> sp.	Mollusca	319
<i>Sabellaria vulgaris</i>	Polychaeta	280
<i>Unciola serrata</i>	Crustacea	272
<i>Leitoscoloplos</i> sp.	Polychaeta	257
<i>Mya arenaria</i>	Mollusca	228
All others	-	1050
March 1994		
<i>Tharyx</i> sp.	Polychaeta	1223
<i>Leucon americanus</i>	Crustacea	972
<i>Streblospio benedicti</i>	Polychaeta	954
<i>Leitoscoloplos robustus</i>	Polychaeta	791
<i>Mediomastus ambiseta</i>	Polychaeta	502
Oligochaeta	Oligochaeta	195
<i>Odostomia</i> sp.	Mollusca	183
<i>Mulinia lateralis</i>	Mollusca	155
<i>Mya arenaria</i>	Mollusca	150
<i>Polydora cornuta</i>	Polychaeta	146
All others	-	427

Figure 1. Locations of stations sampled by Van Veen grab in Newark Bay, NJ from June 1993 to March 1994.



Appendix A.

Table A. Listing of all benthic macrofauna collected by Van Veen grab in Newark Bay from June 1993 to March 1994, abundance and weight (mg) in each sample. Scientific names are as given by Cove Corporation.

Sample month	Station	Abundance	Weight, mg	Taxon
1	B01	1	1.3	<i>Leitoscoloplos</i> sp.
1	B01	5	23.5	<i>Spio setosa</i>
1	B01	4	53.4	<i>Marenzelleria viridis</i>
1	B01	0	3.6	Annelida fragments
1	B01	28	2.4	Oligochaeta
1	B01	1	139.3	<i>Mulinia lateralis</i>
1	B01	1	0	<i>Tellina agilis</i>
1	B01	8	218.4	<i>Mya arenaria</i>
1	B01	1	1.6	<i>Neomysis americana</i>
1	B01	1	2	<i>Monoculodes</i> sp. 1
1	B01	1	447.6	<i>Molgula manhattensis</i>
1	B02	20	8.4	<i>Hypereteone heteropoda</i>
1	B02	1	0	<i>Proceraea cornuta</i>
1	B02	1	0	<i>Streptosyllis pettiboneae</i>
1	B02	1	35.5	<i>Neanthes succinea</i>
1	B02	22	112.6	<i>Leitoscoloplos robustus</i>
1	B02	102	12.6	<i>Polydora cornuta</i>
1	B02	4	3.5	<i>Spio setosa</i>
1	B02	1152	146.2	<i>Streblospio benedicti</i>
1	B02	166	71.5	<i>Tharyx</i> sp. A
1	B02	1	0	<i>Heteromastus filiformis</i>
1	B02	61	5.1	<i>Mediomastus ambiseta</i>
1	B02	40	184.6	<i>Sabellaria vulgaris</i>
1	B02	1	6.2	<i>Pectinaria gouldii</i>
1	B02	0	47.4	Annelida fragments
1	B02	259	23.8	Oligochaeta
1	B02	2	1.9	<i>Odostomia</i> sp.
1	B02	8	206.2	<i>Mytilus edulis</i>
1	B02	1	10.4	<i>Mulinia lateralis</i>
1	B02	29	7161.4	<i>Mya arenaria</i>
1	B02	2	0	<i>Balanus improvisus</i>
1	B02	1	0	<i>Cyathura polita</i>
1	B02	21	16	<i>Edotea triloba</i>
1	B02	2	0	<i>Microdeutopus</i> spp.
1	B02	4	3.6	<i>Unciola serrata</i>
1	B02	6	0	<i>Parapleustes aestuarius</i>
1	B02	1	0	<i>Paracaprella tenuis</i>
1	B02	7	117.9	<i>Rhithropanopeus harrisi</i>
1	B02	66	2422	<i>Molgula manhattensis</i>
1	B03	3	1.2	<i>Hypereteone heteropoda</i>
1	B03	9	18.9	<i>Leitoscoloplos</i> sp.

Sample month	Station	Abundance	Weight, mg	Taxon
1	B03	8	0	<i>Polydora cornuta</i>
1	B03	1	2	<i>Spio setosa</i>
1	B03	168	72.3	<i>Streblospio benedicti</i>
1	B03	4	1.5	<i>Tharyx</i> sp. A
1	B03	16	1.8	<i>Mediomastus ambiseta</i>
1	B03	1	193.2	<i>Pectinaria gouldii</i>
1	B03	4	30	<i>Asabellides oculata</i>
1	B03	0	1.5	Annelida fragments
1	B03	7	0	Oligochaeta
1	B03	5	288.4	<i>Mulinia lateralis</i>
1	B03	2	0	<i>Macoma balthica</i>
1	B03	2	2387.1	<i>Mya arenaria</i>
1	B03	3	2.4	<i>Neomysis americana</i>
1	B03	2	0	<i>Leucon americanus</i>
1	B03	4	0	<i>Edotea triloba</i>
1	B03	1	3.4	<i>Ampelisca abdita</i>
1	B03	2	0	<i>Monoculodes</i> sp. 1
1	B04	13	8.9	<i>Hypereteone heteropoda</i>
1	B04	1	12.9	<i>Glycera americana</i>
1	B04	14	38.1	<i>Leitoscoloplos robustus</i>
1	B04	18	1.5	<i>Polydora cornuta</i>
1	B04	300	86.1	<i>Streblospio benedicti</i>
1	B04	17	3.4	<i>Tharyx</i> sp. A
1	B04	43	4.8	<i>Mediomastus ambiseta</i>
1	B04	2	252.9	<i>Pectinaria gouldii</i>
1	B04	12	43.5	<i>Asabellides oculata</i>
1	B04	0	14.4	Annelida fragments
1	B04	13	1	Oligochaeta
1	B04	7	4.5	<i>Odostomia</i> sp.
1	B04	1	12	<i>Mytilus edulis</i>
1	B04	5	280.5	<i>Mulinia lateralis</i>
1	B04	1	1.1	<i>Ensis directus</i>
1	B04	1	0	<i>Macoma balthica</i>
1	B04	1	0	<i>Tellina agilis</i>
1	B04	31	3382.9	<i>Mya arenaria</i>
1	B04	3	5.4	<i>Balanus improvisus</i>
1	B04	5	0	<i>Leucon americanus</i>
1	B04	2	0	<i>Oxyurostylis smithi</i>
1	B04	6	0	<i>Edotea triloba</i>
1	B04	5	2.2	<i>Molgula manhattensis</i>
1	B05	6	3.5	<i>Hypereteone heteropoda</i>
1	B05	4	168.2	<i>Neanthes succinea</i>
1	B05	31	199.1	<i>Leitoscoloplos robustus</i>
1	B05	35	4.9	<i>Polydora cornuta</i>
1	B05	4	6.6	<i>Spio setosa</i>
1	B05	71	35.9	<i>Streblospio benedicti</i>
1	B05	22	6.2	<i>Tharyx</i> sp. A

Sample month	Station	Abundance	Weight, mg	Taxon
1	B05	56	4.7	<i>Mediomastus ambiseta</i>
1	B05	2	12.3	<i>Sabellaria vulgaris</i>
1	B05	22	81.8	<i>Asabellides oculata</i>
1	B05	0	15.2	Annelida fragments
1	B05	20	1.4	Oligochaeta
1	B05	19	11.2	<i>Odostomia</i> sp.
1	B05	22	762.6	<i>Mulinia lateralis</i>
1	B05	1	1.6	<i>Ensis directus</i>
1	B05	39	38551	<i>Mya arenaria</i>
1	B05	1	8.7	<i>Balanus improvisus</i>
1	B05	6	1.6	<i>Neomysis americana</i>
1	B05	7	1.4	<i>Edotea triloba</i>
1	B05	2	0	<i>Microdeutopus</i> spp.
1	B05	10	16.2	<i>Unciola serrata</i>
1	B05	3	625.3	<i>Crangon septemspinosa</i>
1	B05	6	2.4	<i>Rhithropanopeus harrisi</i>
1	B06	1	0	Nereididae
1	B06	13	50.6	<i>Leitoscoloplos robustus</i>
1	B06	6	5.5	<i>Polydora cornuta</i>
1	B06	66	42.3	<i>Streblospio benedicti</i>
1	B06	3	0.9	<i>Tharyx</i> sp. A
1	B06	6	0	<i>Mediomastus ambiseta</i>
1	B06	7	17.7	<i>Asabellides oculata</i>
1	B06	0	6.6	Annelida fragments
1	B06	1	0	Oligochaeta
1	B06	4	1.5	<i>Odostomia</i> sp.
1	B06	9	332.3	<i>Mulinia lateralis</i>
1	B06	1	655	<i>Mya arenaria</i>
1	B06	1	2.3	<i>Neomysis americana</i>
1	B06	1	0	<i>Oxyurostylis smithi</i>
1	B06	1	0	<i>Unciola serrata</i>
1	B06	1	0	<i>Monoculodes</i> sp. 1
1	B06	1	0	<i>Crangon septemspinosa</i>
1	B06	1	0	Xanthidae
1	B06	1	0	<i>Molgula manhattensis</i>
1	B07	1	1.2	<i>Hypereteone heteropoda</i>
1	B07	9	43.4	<i>Leitoscoloplos robustus</i>
1	B07	2	0	<i>Polydora cornuta</i>
1	B07	50	12.3	<i>Streblospio benedicti</i>
1	B07	1	2	<i>Tharyx</i> sp. A
1	B07	9	1	<i>Mediomastus ambiseta</i>
1	B07	1	110.5	<i>Pectinaria gouldii</i>
1	B07	5	1.2	<i>Asabellides oculata</i>
1	B07	0	0.1	Annelida fragments
1	B07	1	0	Oligochaeta
1	B07	2	0	<i>Leucon americanus</i>
1	B07	1	0	<i>Edotea triloba</i>

Sample month	Station	Abundance	Weight, mg	Taxon
1	B07	1	1.5	<i>Crangon septemspinosa</i>
1	B08	1	1	<i>Paranaitis speciosa</i>
1	B08	1	1.7	<i>Leitoscoloplos</i> sp.
1	B08	3	0.8	<i>Polydora cornuta</i>
1	B08	1	0	<i>Streblospio benedicti</i>
1	B08	1	1.2	<i>Sabellaria vulgaris</i>
1	B08	1	1	<i>Mulinia lateralis</i>
1	B08	1	0.5	<i>Tellina agilis</i>
1	B08	1	2.8	<i>Mya arenaria</i>
1	B08	1	0	<i>Leucon americanus</i>
1	B08	1	6.6	<i>Cancer irroratus</i>
1	B09	36	231.3	<i>Leitoscoloplos robustus</i>
1	B09	10	1.4	<i>Streblospio benedicti</i>
1	B09	1	24.1	<i>Pectinaria gouldii</i>
1	B09	0	0.1	Annelida fragments
1	B09	1	88.6	<i>Mulinia lateralis</i>
1	B09	30	5.9	<i>Leucon americanus</i>
1	B10	12	88.3	<i>Leitoscoloplos robustus</i>
1	B10	11	3.2	<i>Streblospio benedicti</i>
1	B10	1	0	<i>Mediomastus ambiseta</i>
1	B10	1	204.2	<i>Pectinaria gouldii</i>
1	B10	3	5.5	<i>Asabellides oculata</i>
1	B10	1	1.9	<i>Macoma balthica</i>
1	B10	1	892.8	<i>Mya arenaria</i>
1	B10	9	2.9	<i>Leucon americanus</i>
1	B10	5	1.3	<i>Edotea triloba</i>
1	B11	1	31.6	<i>Neanthes succinea</i>
1	B11	47	3.4	<i>Streblospio benedicti</i>
1	B11	2	0	Oligochaeta
1	B11	1	4.8	<i>Mya arenaria</i>
1	B11	2	0	<i>Neomysis americana</i>
1	B12	1	0	<i>Leitoscoloplos</i> sp.
1	B12	54	21.8	<i>Streblospio benedicti</i>
1	B12	11	3.5	<i>Tharyx</i> sp. A
1	B12	2	0	Oligochaeta
1	B12	2	2.2	<i>Odostomia</i> sp.
1	B12	3	8	<i>Mulinia lateralis</i>
1	B12	3	1.9	<i>Macoma balthica</i>
1	B12	14	1.2	<i>Leucon americanus</i>
1	B13	1	0	<i>Hypereteone heteropoda</i>
1	B13	18	179.8	<i>Leitoscoloplos robustus</i>
1	B13	88	27.5	<i>Streblospio benedicti</i>
1	B13	47	17.7	<i>Tharyx</i> sp. A
1	B13	12	1.3	<i>Mediomastus ambiseta</i>
1	B13	8	0	Oligochaeta
1	B13	1	1.2	<i>Macoma balthica</i>
1	B13	1	941.3	<i>Mya arenaria</i>

Sample month	Station	Abundance	Weight, mg	Taxon
1	B13	6	0	<i>Neomysis americana</i>
1	B13	19	2.9	<i>Leucon americanus</i>
1	B13	2	0	<i>Edotea triloba</i>
1	B13	2	0	<i>Monoculodes</i> sp. 1
1	B13	1	669.3	<i>Molgula manhattensis</i>
1	B14	2	25.8	<i>Leitoscoloplos robustus</i>
1	B14	10	2.2	<i>Streblospio benedicti</i>
1	B14	1	193.2	<i>Pectinaria gouldii</i>
1	B14	2	0	Oligochaeta
1	B14	1	0	<i>Macoma balthica</i>
1	B14	3	0	<i>Neomysis americana</i>
1	B14	5	0	<i>Leucon americanus</i>
1	B15	1	4.1	<i>Hypereteone heteropoda</i>
1	B15	1	3.9	<i>Nephtys incisa</i>
1	B15	5	31.9	<i>Leitoscoloplos robustus</i>
1	B15	10	1.4	<i>Streblospio benedicti</i>
1	B15	1	1.6	<i>Macoma balthica</i>
1	B15	1	0.5	<i>Tellina agilis</i>
1	B15	3	1405.9	<i>Mya arenaria</i>
1	B15	16	3.1	<i>Leucon americanus</i>
1	B16	2	0	<i>Neomysis americana</i>
1	B16	5	2.2	<i>Leucon americanus</i>
1	B17	1	1.3	<i>Leitoscoloplos robustus</i>
1	B17	1	9.9	<i>Polydora cornuta</i>
1	B17	17	4.1	<i>Streblospio benedicti</i>
1	B17	2	0	Ampharetidae
1	B17	2	0	<i>Neomysis americana</i>
1	B17	13	1.8	<i>Leucon americanus</i>
1	B18	1	2.5	<i>Hypereteone heteropoda</i>
1	B18	1	35.2	<i>Neanthes succinea</i>
1	B18	8	19.2	<i>Leitoscoloplos robustus</i>
1	B18	1	0	<i>Polydora cornuta</i>
1	B18	16	2	<i>Streblospio benedicti</i>
1	B18	1	9.3	<i>Asabellides oculata</i>
1	B18	1	0	<i>Macoma balthica</i>
1	B18	1	0	<i>Mya arenaria</i>
1	B18	21	3.7	<i>Leucon americanus</i>
1	B18	1	0	<i>Edotea triloba</i>
1	B18	1	0	<i>Monoculodes</i> sp. 1
1	V1	2	0	<i>Hypereteone heteropoda</i>
1	V1	4	0	<i>Microphthalmus szcelkowi</i>
1	V1	1	0	<i>Streptosyllis pettiboneae</i>
1	V1	2	0	Nereididae
1	V1	24	392.4	<i>Leitoscoloplos robustus</i>
1	V1	27	10.6	<i>Polydora cornuta</i>
1	V1	15	24	<i>Spio setosa</i>
1	V1	487	63.5	<i>Streblospio benedicti</i>

Sample month	Station	Abundance	Weight, mg	Taxon
1	V1	4	6.6	<i>Marenzelleria viridis</i>
1	V1	16	3.8	<i>Tharyx</i> sp. A
1	V1	34	2.4	<i>Mediomastus ambiseta</i>
1	V1	0	44.2	Annelida fragments
1	V1	8	18.3	Oligochaeta
1	V1	1	0	<i>Odostomia</i> sp.
1	V1	1	0	<i>Mya arenaria</i>
1	V1	18	39.4	<i>Balanus improvisus</i>
1	V1	1	0	<i>Neomysis americana</i>
1	V2	2	0	<i>Hypereteone heteropoda</i>
1	V2	2	111.4	<i>Neanthes succinea</i>
1	V2	12	30.6	<i>Leitoscoloplos</i> sp.
1	V2	18	5.4	<i>Polydora cornuta</i>
1	V2	2	0	<i>Spio setosa</i>
1	V2	403	96	<i>Streblospio benedicti</i>
1	V2	2	9.5	<i>Marenzelleria viridis</i>
1	V2	2	26.2	<i>Heteromastus filiformis</i>
1	V2	58	5	<i>Mediomastus ambiseta</i>
1	V2	1	138	<i>Pectinaria gouldii</i>
1	V2	2	0	Oligochaeta
1	V2	4	1.9	<i>Odostomia</i> sp.
1	V2	1	0	<i>Doradella obscura</i>
1	V2	1	0	<i>Macoma balthica</i>
1	V2	1	0	<i>Tellina agilis</i>
1	V2	2	1605.4	<i>Mya arenaria</i>
1	V2	94	355.9	<i>Balanus improvisus</i>
1	V2	1	0	<i>Edotea triloba</i>
1	V2	3	5.4	<i>Melita nitida</i>
1	V3	1	0	<i>Hypereteone heteropoda</i>
1	V3	1	9	<i>Neanthes succinea</i>
1	V3	36	615.4	<i>Leitoscoloplos robustus</i>
1	V3	2	3	<i>Polydora cornuta</i>
1	V3	22	6.7	<i>Streblospio benedicti</i>
1	V3	1	1.1	<i>Tharyx</i> sp. A
1	V3	18	2.1	<i>Mediomastus ambiseta</i>
1	V3	0	1.1	Annelida fragments
1	V3	1	0	Oligochaeta
1	V3	9	5.6	<i>Odostomia</i> sp.
1	V3	1	136.7	<i>Mulinia lateralis</i>
1	V3	1	2.2	<i>Macoma balthica</i>
1	V3	1	0	<i>Monoculodes</i> sp. 1
1	V4	1	0	<i>Hypereteone heteropoda</i>
1	V4	23	244	<i>Leitoscoloplos robustus</i>
1	V4	9	2.1	<i>Streblospio benedicti</i>
1	V4	10	0	<i>Mediomastus ambiseta</i>
1	V4	1	0	Oligochaeta
1	V4	2	1.8	<i>Odostomia</i> sp.

Sample month	Station	Abundance	Weight, mg	Taxon
1	V4	5	977.5	<i>Mulinia lateralis</i>
1	V4	1	0	<i>Macoma balthica</i>
1	V4	1	1263.7	<i>Mya arenaria</i>
1	V4	1	0	<i>Neomysis americana</i>
1	V5	1	0	<i>Hypereteone heteropoda</i>
1	V5	46	888.8	<i>Leitoscoloplos robustus</i>
1	V5	7	3	<i>Streblospio benedicti</i>
1	V5	1	0	<i>Tharyx</i> sp. A
1	V5	2	0	<i>Odostomia</i> sp.
1	V5	20	3397.3	<i>Mulinia lateralis</i>
1	V5	1	2250.2	<i>Mya arenaria</i>
1	V5	4	0	<i>Leucon americanus</i>
1	V5	1	0	<i>Oxyurostylis smithi</i>
1	V6	95	1394.4	<i>Leitoscoloplos robustus</i>
1	V6	2	5.4	<i>Polydora cornuta</i>
1	V6	1	4.5	<i>Marenzelleria viridis</i>
1	V6	1	0	<i>Tharyx</i> sp. A
1	V6	1	0	Oligochaeta
1	V6	1	1.2	<i>Odostomia</i> sp.
1	V6	22	5449.8	<i>Mulinia lateralis</i>
1	V6	2	53.8	<i>Macoma balthica</i>
1	V6	1	3358.3	<i>Mya arenaria</i>
1	V6	1	0	<i>Leucon americanus</i>
1	V7	101	1461.8	<i>Leitoscoloplos robustus</i>
1	V7	3	0.5	<i>Streblospio benedicti</i>
1	V7	24	3708.4	<i>Mulinia lateralis</i>
1	V7	1	4.3	<i>Macoma balthica</i>
1	V7	1	0	<i>Leucon americanus</i>
1	V7	2	0.6	<i>Ampelisca abdita</i>
2	B01	2	0	<i>Hypereteone heteropoda</i>
2	B01	9	74.4	<i>Leitoscoloplos robustus</i>
2	B01	1	1.2	<i>Spio setosa</i>
2	B01	197	43.6	<i>Streblospio benedicti</i>
2	B01	194	143.5	<i>Tharyx</i> sp. A
2	B01	18	2	<i>Mediomastus ambiseta</i>
2	B01	0	2.9	Annelida fragments
2	B01	29	1.6	Oligochaeta
2	B01	5	11.4	<i>Mulinia lateralis</i>
2	B01	1	33.9	<i>Macoma balthica</i>
2	B01	2	4	<i>Mya arenaria</i>
2	B01	2	0.7	<i>Leucon americanus</i>
2	B01	1	13.9	<i>Cyathura polita</i>
2	B01	2	0.6	<i>Edotea triloba</i>
2	B02	2	0	<i>Hypereteone heteropoda</i>
2	B02	1	0	Nereididae
2	B02	4	15.1	<i>Leitoscoloplos</i> sp.
2	B02	1	0	<i>Polydora cornuta</i>

Sample month	Station	Abundance	Weight, mg	Taxon
2	B02	1	3.7	<i>Spio setosa</i>
2	B02	360	93.4	<i>Streblospio benedicti</i>
2	B02	89	48.4	<i>Tharyx</i> sp. A
2	B02	1	7.1	<i>Heteromastus filiformis</i>
2	B02	2	0.5	<i>Mediomastus ambiseta</i>
2	B02	1	0	<i>Sabellaria vulgaris</i>
2	B02	0	5.2	Annelida fragments
2	B02	43	2.6	Oligochaeta
2	B02	1	0	<i>Odostomia</i> sp.
2	B02	1	443.3	<i>Mya arenaria</i>
2	B02	1	0.6	<i>Balanus improvisus</i>
2	B02	1	0	<i>Melita nitida</i>
2	B03	2	97.7	Anthozoa
2	B03	4	0.5	<i>Hypereteone heteropoda</i>
2	B03	1	499.1	<i>Glycera americana</i>
2	B03	7	17.1	<i>Leitoscoloplos robustus</i>
2	B03	6	0	<i>Polydora cornuta</i>
2	B03	9	42.6	<i>Spio setosa</i>
2	B03	487	188.5	<i>Streblospio benedicti</i>
2	B03	506	360.7	<i>Tharyx</i> sp. A
2	B03	85	5.9	<i>Mediomastus ambiseta</i>
2	B03	2	0	<i>Sabellaria vulgaris</i>
2	B03	4	18.3	<i>Asabellides oculata</i>
2	B03	0	46.3	Annelida fragments
2	B03	25	1	Oligochaeta
2	B03	5	1.6	<i>Odostomia</i> sp.
2	B03	3	0	<i>Mulinia lateralis</i>
2	B03	4	352.8	<i>Mya arenaria</i>
2	B03	3	59.1	<i>Balanus improvisus</i>
2	B03	4	1.1	<i>Edotea triloba</i>
2	B03	1	0	<i>Unciola serrata</i>
2	B03	1	0	<i>Melita nitida</i>
2	B03	1	118.2	<i>Rhithropanopeus harrisi</i>
2	B04	1	0.7	Rhynchozoela
2	B04	2	0.8	<i>Hypereteone heteropoda</i>
2	B04	23	180.7	<i>Leitoscoloplos robustus</i>
2	B04	207	48.6	<i>Streblospio benedicti</i>
2	B04	5	1.3	<i>Tharyx</i> sp. A
2	B04	1	0	<i>Sabellaria vulgaris</i>
2	B04	2	0	<i>Asabellides oculata</i>
2	B04	0	1.2	Annelida fragments
2	B04	3	0.9	Oligochaeta
2	B04	3	0.6	<i>Odostomia</i> sp.
2	B04	9	1.8	<i>Mulinia lateralis</i>
2	B04	2	338	<i>Mya arenaria</i>
2	B04	1	0	<i>Leucon americanus</i>
2	B05	12	485.3	Anthozoa

Sample month	Station	Abundance	Weight, mg	Taxon
2	B05	9	1.5	<i>Hypereteone heteropoda</i>
2	B05	1	0	Nereididae
2	B05	1	40.6	Glycera spp.
2	B05	1	0	<i>Glycera americana</i>
2	B05	22	43.4	<i>Leitoscoloplos robustus</i>
2	B05	13	0	<i>Polydora cornuta</i>
2	B05	684	207.4	<i>Streblospio benedicti</i>
2	B05	20	8.9	<i>Tharyx</i> sp. A
2	B05	325	54.7	<i>Mediomastus ambiseta</i>
2	B05	31	41.2	<i>Sabellaria vulgaris</i>
2	B05	2	187	<i>Pectinaria gouldii</i>
2	B05	2	5.1	<i>Asabellides oculata</i>
2	B05	0	11.5	Annelida fragments
2	B05	175	10.6	Oligochaeta
2	B05	3	489.1	<i>Mytilus edulis</i>
2	B05	1	20.3	<i>Mulinia lateralis</i>
2	B05	1	5.1	<i>Macoma balthica</i>
2	B05	8	2268.5	<i>Mya arenaria</i>
2	B05	3	1	<i>Edotea triloba</i>
2	B05	1	0	<i>Microdeutopus gryllotalpa</i>
2	B05	79	40.9	<i>Unciola serrata</i>
2	B05	1	0	<i>Paracaprella tenuis</i>
2	B05	6	248.8	<i>Rhithropanopeus harrisi</i>
2	B05	1	885	<i>Molgula manhattensis</i>
2	B06	19	62.5	<i>Leitoscoloplos robustus</i>
2	B06	5	3.8	<i>Polydora cornuta</i>
2	B06	91	27.3	<i>Streblospio benedicti</i>
2	B06	2	0.7	<i>Tharyx</i> sp. A
2	B06	10	0.4	<i>Mediomastus ambiseta</i>
2	B06	2	1.6	<i>Sabellaria vulgaris</i>
2	B06	1	5.9	<i>Asabellides oculata</i>
2	B06	0	0.9	Annelida fragments
2	B06	6	0.6	Oligochaeta
2	B06	4	0.6	<i>Odostomia</i> sp.
2	B06	3	274	<i>Mulinia lateralis</i>
2	B06	4	4619.3	<i>Mya arenaria</i>
2	B06	5	0.8	<i>Edotea triloba</i>
2	B06	1	96.7	<i>Crangon septemspinosa</i>
2	B07	6	19.4	<i>Leitoscoloplos robustus</i>
2	B07	7	1.4	<i>Streblospio benedicti</i>
2	B07	1	0	<i>Tharyx</i> sp. A
2	B07	2	149.1	<i>Mulinia lateralis</i>
2	B07	1	0	<i>Leucon americanus</i>
2	B07	1	0	<i>Microdeutopus gryllotalpa</i>
2	B08	31	166.2	<i>Leitoscoloplos robustus</i>
2	B08	35	6.1	<i>Streblospio benedicti</i>
2	B08	1	0	<i>Tharyx</i> sp. A

Sample month	Station	Abundance	Weight, mg	Taxon
2	B08	2	0	<i>Mediomastus ambiseta</i>
2	B08	1	0	<i>Pectinaria gouldii</i>
2	B08	1	0.5	Oligochaeta
2	B08	10	375.5	<i>Mulinia lateralis</i>
2	B08	1	0	<i>Leucon americanus</i>
2	B09	2	4.2	<i>Leitoscoloplos robustus</i>
2	B09	15	1.5	<i>Streblospio benedicti</i>
2	B09	1	0	<i>Odostomia</i> sp.
2	B09	3	0.8	<i>Rictaxis punctostriatus</i>
2	B09	2	0.7	<i>Mulinia lateralis</i>
2	B10	2	12.8	<i>Leitoscoloplos</i> sp.
2	B10	1	0	<i>Odostomia</i> sp.
2	B10	1	0	<i>Rictaxis punctostriatus</i>
2	B11	1	0.5	<i>Hypereteone heteropoda</i>
2	B11	1	1.8	<i>Leitoscoloplos</i> sp.
2	B11	86	20.2	<i>Streblospio benedicti</i>
2	B11	2	0.5	<i>Tharyx</i> sp. A
2	B11	1	0	Oligochaeta
2	B11	1	0	<i>Mulinia lateralis</i>
2	B11	1	0	<i>Leucon americanus</i>
2	B11	1	0	<i>Edotea triloba</i>
2	B11	1	281.9	<i>Rhithropanopeus harrisii</i>
2	B12	5	67.5	<i>Leitoscoloplos robustus</i>
2	B12	28	6	<i>Streblospio benedicti</i>
2	B12	24	19.5	<i>Tharyx</i> sp. A
2	B12	1	0	<i>Pectinaria gouldii</i>
2	B12	1	0	<i>Asabellides oculata</i>
2	B12	3	0	Oligochaeta
2	B12	3	0	<i>Mulinia lateralis</i>
2	B12	8	1.5	<i>Leucon americanus</i>
2	B12	1	0	<i>Edotea triloba</i>
2	B12	1	0	<i>Corophium acutum</i>
2	B13	2	76.1	<i>Leitoscoloplos robustus</i>
2	B13	80	20.2	<i>Streblospio benedicti</i>
2	B13	16	8	<i>Tharyx</i> sp. A
2	B13	6	1.6	<i>Mediomastus ambiseta</i>
2	B13	1	0	<i>Pectinaria gouldii</i>
2	B13	2	0	<i>Odostomia</i> sp.
2	B13	12	2.7	<i>Mulinia lateralis</i>
2	B13	1	0	<i>Mya arenaria</i>
2	B13	14	3.4	<i>Leucon americanus</i>
2	B14	1	802.3	<i>Glycera americana</i>
2	B14	2	59	<i>Leitoscoloplos robustus</i>
2	B14	2	0	<i>Streblospio benedicti</i>
2	B14	7	1.2	<i>Leucon americanus</i>
2	B14	1	0	<i>Edotea triloba</i>
2	B15	1	77	<i>Nephtys incisa</i>

Sample month	Station	Abundance	Weight, mg	Taxon
2	B15	7	72.6	<i>Leitoscoloplos robustus</i>
2	B15	6	0.6	<i>Streblospio benedicti</i>
2	B15	1	0	<i>Tharyx</i> sp. A
2	B15	1	42.4	<i>Mulinia lateralis</i>
2	B15	1	0	<i>Neomysis americana</i>
2	B15	6	0.8	<i>Leucon americanus</i>
2	B16	1	0	Anthozoa
2	B16	3	29.5	<i>Leitoscoloplos robustus</i>
2	B16	5	0.6	<i>Streblospio benedicti</i>
2	B16	4	0	<i>Mulinia lateralis</i>
2	B16	1	0	<i>Tellina agilis</i>
2	B16	2	0.8	<i>Neomysis americana</i>
2	B16	1	0	<i>Leucon americanus</i>
2	B17	14	88.1	<i>Leitoscoloplos robustus</i>
2	B17	4	1.9	<i>Polydora cornuta</i>
2	B17	29	4	<i>Streblospio benedicti</i>
2	B17	1	0	<i>Tharyx</i> sp. A
2	B17	1	0	<i>Mediomastus ambiseta</i>
2	B17	1	0	<i>Rictaxis punctostriatus</i>
2	B17	2	197.8	<i>Mulinia lateralis</i>
2	B17	1	370.7	<i>Mya arenaria</i>
2	B17	7	0.8	<i>Leucon americanus</i>
2	B17	2	0.5	<i>Edotea triloba</i>
2	B18	11	113.6	<i>Leitoscoloplos robustus</i>
2	B18	5	0.7	<i>Streblospio benedicti</i>
2	B18	1	0	<i>Mediomastus ambiseta</i>
2	B18	1	0	<i>Pectinaria gouldii</i>
2	B18	1	0	<i>Rictaxis punctostriatus</i>
2	B18	1	4	<i>Mulinia lateralis</i>
2	B18	8	2	<i>Leucon americanus</i>
2	V1	1	8.1	Rhynchocoela
2	V1	16	217.7	<i>Leitoscoloplos robustus</i>
2	V1	4	0.8	<i>Polydora cornuta</i>
2	V1	1	0.8	<i>Spio setosa</i>
2	V1	335	116.3	<i>Streblospio benedicti</i>
2	V1	5	58.2	<i>Marenzelleria viridis</i>
2	V1	1	1.7	<i>Heteromastus filiformis</i>
2	V1	50	4.4	<i>Mediomastus ambiseta</i>
2	V1	0	11.4	Annelida fragments
2	V1	3	1.1	<i>Odostomia</i> sp.
2	V1	17	138.7	<i>Mulinia lateralis</i>
2	V1	2	60.9	<i>Mya arenaria</i>
2	V1	1	2.6	<i>Neomysis americana</i>
2	V1	1	17.2	<i>Crangon septemspinosa</i>
2	V2	1	0	<i>Hypereteone heteropoda</i>
2	V2	47	384.5	<i>Leitoscoloplos robustus</i>
2	V2	4	7.3	<i>Polydora cornuta</i>

Sample month	Station	Abundance	Weight, mg	Taxon
2	V2	2	0	<i>Pygospio elegans</i>
2	V2	166	30.4	<i>Streblospio benedicti</i>
2	V2	1	13.8	<i>Marenzelleria viridis</i>
2	V2	2	0	<i>Tharyx</i> sp. A
2	V2	7	2.4	<i>Heteromastus filiformis</i>
2	V2	13	1.1	<i>Mediomastus ambiseta</i>
2	V2	0	2.5	Annelida fragments
2	V2	15	3.2	<i>Rictaxis punctostriatus</i>
2	V2	11	86.1	<i>Mulinia lateralis</i>
2	V2	1	22.1	<i>Macoma balthica</i>
2	V2	2	2915.1	<i>Mya arenaria</i>
2	V2	2	0	<i>Balanus improvisus</i>
2	V2	1	0	<i>Molgula manhattensis</i>
2	V3	1	88.5	<i>Neanthes succinea</i>
2	V3	32	363.8	<i>Leitoscoloplos robustus</i>
2	V3	1	1.2	<i>Polydora cornuta</i>
2	V3	187	60.4	<i>Streblospio benedicti</i>
2	V3	1	4.6	<i>Marenzelleria viridis</i>
2	V3	1	0	<i>Tharyx</i> sp. A
2	V3	3	0.9	<i>Heteromastus filiformis</i>
2	V3	28	1.6	<i>Mediomastus ambiseta</i>
2	V3	0	4.8	Annelida fragments
2	V3	1	0	<i>Odostomia</i> sp.
2	V3	1	0	<i>Rictaxis punctostriatus</i>
2	V3	1	0	<i>Mytilus edulis</i>
2	V3	13	854.8	<i>Mulinia lateralis</i>
2	V3	1	0	<i>Leucon americanus</i>
2	V4	47	610.8	<i>Leitoscoloplos robustus</i>
2	V4	1	1.1	<i>Polydora cornuta</i>
2	V4	37	8.3	<i>Streblospio benedicti</i>
2	V4	12	5.5	<i>Rictaxis punctostriatus</i>
2	V4	9	6.5	<i>Mulinia lateralis</i>
2	V4	1	41.7	<i>Macoma balthica</i>
2	V4	3	7210.8	<i>Mya arenaria</i>
2	V4	3	0	<i>Leucon americanus</i>
2	V4	1	0	<i>Ampelisca</i> sp.
2	V5	1	0.8	<i>Rhynchocoela</i>
2	V5	78	708.5	<i>Leitoscoloplos robustus</i>
2	V5	6	4	<i>Polydora cornuta</i>
2	V5	76	21.1	<i>Streblospio benedicti</i>
2	V5	3	8.8	<i>Heteromastus filiformis</i>
2	V5	3	0.5	<i>Mediomastus ambiseta</i>
2	V5	0	0.1	Annelida fragments
2	V5	1	0.5	<i>Oligochaeta</i>
2	V5	4	0.9	<i>Rictaxis punctostriatus</i>
2	V5	34	5895.5	<i>Mulinia lateralis</i>
2	V5	1	0.7	<i>Leucon americanus</i>

Sample month	Station	Abundance	Weight, mg	Taxon
2	V6	68	1267.5	<i>Leitoscoloplos robustus</i>
2	V6	1	0.6	<i>Polydora cornuta</i>
2	V6	44	11.8	<i>Streblospio benedicti</i>
2	V6	6	0	<i>Mediomastus ambiseta</i>
2	V6	1	0	<i>Asabellides oculata</i>
2	V6	3	0.6	<i>Oligochaeta</i>
2	V6	1	0	<i>Odostomia sp.</i>
2	V6	9	3	<i>Rictaxis punctostriatus</i>
2	V6	25	4932.8	<i>Mulinia lateralis</i>
2	V6	3	0	<i>Leucon americanus</i>
2	V7	1	936.5	<i>Glycera americana</i>
2	V7	58	719	<i>Leitoscoloplos robustus</i>
2	V7	34	7.2	<i>Streblospio benedicti</i>
2	V7	3	0.9	<i>Tharyx sp. A</i>
2	V7	0	11.6	<i>Annelida fragments</i>
2	V7	10	2.2	<i>Rictaxis punctostriatus</i>
2	V7	9	899.6	<i>Mulinia lateralis</i>
2	V7	2	0.5	<i>Neomysis americana</i>
3	B01	8	298.6	<i>Anthozoa</i>
3	B01	11	3.1	<i>Hypereteone heteropoda</i>
3	B01	3	0	<i>Eumida sanguinea</i>
3	B01	2	0	<i>Streptosyllis pettiboneae</i>
3	B01	2	16.8	<i>Neanthes succinea</i>
3	B01	4	9.3	<i>Glycera americana</i>
3	B01	29	94.1	<i>Leitoscoloplos robustus</i>
3	B01	9	6.1	<i>Polydora cornuta</i>
3	B01	180	65.1	<i>Streblospio benedicti</i>
3	B01	311	294.4	<i>Tharyx sp. A</i>
3	B01	21	1.3	<i>Mediomastus ambiseta</i>
3	B01	22	52.3	<i>Sabellaria vulgaris</i>
3	B01	2	253.9	<i>Pectinaria gouldii</i>
3	B01	1	9.5	<i>Asabellides oculata</i>
3	B01	0	30.4	<i>Annelida fragments</i>
3	B01	91	9.1	<i>Oligochaeta</i>
3	B01	33	13.2	<i>Odostomia sp.</i>
3	B01	1	1968.8	<i>Mytilus edulis</i>
3	B01	3	146.4	<i>Mulinia lateralis</i>
3	B01	17	1685.3	<i>Mya arenaria</i>
3	B01	1	1.4	<i>Balanus improvisus</i>
3	B01	4	5	<i>Edotea triloba</i>
3	B01	26	22.8	<i>Unciola serrata</i>
3	B01	1	38.4	<i>Rhithropanopeus harrisi</i>
3	B01	12	107.1	<i>Molgula manhattensis</i>
3	B02	1	0	<i>Hypereteone heteropoda</i>
3	B02	6	18.4	<i>Glycera americana</i>
3	B02	45	221.5	<i>Leitoscoloplos robustus</i>
3	B02	1	9.3	<i>Spio setosa</i>

Sample month	Station	Abundance	Weight, mg	Taxon
3	B02	863	1078.7	<i>Tharyx sp. A</i>
3	B02	1	0.7	<i>Heteromastus filiformis</i>
3	B02	19	1.9	<i>Mediomastus ambiseta</i>
3	B02	1	0.9	<i>Sabellaria vulgaris</i>
3	B02	4	206.6	<i>Pectinaria gouldii</i>
3	B02	0	5	<i>Annelida fragments</i>
3	B02	62	4.5	<i>Oligochaeta</i>
3	B02	74	37.6	<i>Odostomia sp.</i>
3	B02	11	3.8	<i>Rictaxis punctostriatus</i>
3	B02	3	183.7	<i>Mulinia lateralis</i>
3	B02	1	293.4	<i>Macoma balthica</i>
3	B02	9	3.4	<i>Mya arenaria</i>
3	B02	2	0.6	<i>Leucon americanus</i>
3	B02	1	0	<i>Edotea triloba</i>
3	B02	1	0	<i>Monoculodes sp. 1</i>
3	B03	1	0	<i>Hypereteone heteropoda</i>
3	B03	1	0	<i>Podarkeopsis levifuscina</i>
3	B03	4	9.4	<i>Glycera americana</i>
3	B03	90	145.4	<i>Leitoscoloplos robustus</i>
3	B03	7	13.6	<i>Polydora cornuta</i>
3	B03	9	2.1	<i>Streblospio benedicti</i>
3	B03	6	1.3	<i>Tharyx sp. A</i>
3	B03	1	0	<i>Heteromastus filiformis</i>
3	B03	148	15.7	<i>Mediomastus ambiseta</i>
3	B03	13	1233	<i>Pectinaria gouldii</i>
3	B03	2	12.6	<i>Asabellides oculata</i>
3	B03	0	5.3	<i>Annelida fragments</i>
3	B03	23	1.6	<i>Oligochaeta</i>
3	B03	27	8.5	<i>Odostomia sp.</i>
3	B03	9	33.5	<i>Rictaxis punctostriatus</i>
3	B03	20	331.5	<i>Mulinia lateralis</i>
3	B03	1	0	<i>Ensis directus</i>
3	B03	1	125.9	<i>Macoma balthica</i>
3	B03	27	23	<i>Mya arenaria</i>
3	B03	9	1.2	<i>Leucon americanus</i>
3	B03	9	5.1	<i>Edotea triloba</i>
3	B03	2	0	<i>Unciola serrata</i>
3	B03	2	0	<i>Monoculodes sp. 1</i>
3	B04	1	5.4	<i>Lepidonotus squamatus</i>
3	B04	1	0	<i>Eumida sanguinea</i>
3	B04	1	0.9	<i>Neanthes succinea</i>
3	B04	1	14	<i>Glycera americana</i>
3	B04	22	4.5	<i>Polydora cornuta</i>
3	B04	1	0	<i>Heteromastus filiformis</i>
3	B04	66	457.1	<i>Sabellaria vulgaris</i>
3	B04	2	1.2	<i>Asabellides oculata</i>
3	B04	0	1.9	<i>Annelida fragments</i>

Sample month	Station	Abundance	Weight, mg	Taxon
3	B04	10	5	<i>Odostomia sp.</i>
3	B04	1	5.8	<i>Rictaxis punctostriatus</i>
3	B04	1	859.2	<i>Mytilus edulis</i>
3	B04	19	4347.7	<i>Mya arenaria</i>
3	B04	14	1020.6	<i>Bivalve siphons</i>
3	B04	6	1.5	<i>Edotea triloba</i>
3	B04	18	12	<i>Unciola serrata</i>
3	B04	2	0.8	<i>Melita nitida</i>
3	B04	1	146.2	<i>Rhithropanopeus harrisi</i>
3	B04	6	8.9	<i>Molgula manhattensis</i>
3	B05	1	29.1	<i>Lepidonotus sublevis</i>
3	B05	5	1.3	<i>Hypereteone heteropoda</i>
3	B05	13	2.5	<i>Eumida sanguinea</i>
3	B05	1	18.3	<i>Neanthes succinea</i>
3	B05	2	1.1	<i>Glycera americana</i>
3	B05	11	8.1	<i>Leitoscoloplos robustus</i>
3	B05	12	2.2	<i>Polydora cornuta</i>
3	B05	447	288.2	<i>Streblospio benedicti</i>
3	B05	3	0.8	<i>Tharyx sp. A</i>
3	B05	20	1.1	<i>Mediomastus ambiseta</i>
3	B05	183	725.6	<i>Sabellaria vulgaris</i>
3	B05	2	25.4	<i>Pectinaria gouldii</i>
3	B05	3	13	<i>Asabellides oculata</i>
3	B05	1	0	<i>Sabellidae</i>
3	B05	0	7.8	<i>Annelida fragments</i>
3	B05	20	1.2	<i>Oligochaeta</i>
3	B05	38	10.4	<i>Odostomia sp.</i>
3	B05	5	0	<i>Ensis directus</i>
3	B05	42	2919.5	<i>Mya arenaria</i>
3	B05	1	0	<i>Neomysis americana</i>
3	B05	19	3.6	<i>Leucon americanus</i>
3	B05	1	0	<i>Sphaeroma quadridentata</i>
3	B05	5	2.2	<i>Edotea triloba</i>
3	B05	222	172.2	<i>Unciola serrata</i>
3	B05	1	0	<i>Elasmopus laevis</i>
3	B05	5	2.8	<i>Melita nitida</i>
3	B05	3	4.8	<i>Parapleustes aestuarius</i>
3	B05	1	127.5	<i>Crangon septemspinosa</i>
3	B05	2	66.5	<i>Rhithropanopeus harrisi</i>
3	B05	23	115.9	<i>Molgula manhattensis</i>
3	B06	2	0.9	<i>Hypereteone heteropoda</i>
3	B06	1	5.7	<i>Neanthes succinea</i>
3	B06	44	67.1	<i>Polydora cornuta</i>
3	B06	221	112.8	<i>Streblospio benedicti</i>
3	B06	1	0	<i>Tharyx sp. A</i>
3	B06	1	0.5	<i>Mediomastus ambiseta</i>
3	B06	1	0	<i>Oligochaeta</i>

Sample month	Station	Abundance	Weight, mg	Taxon
3	B06	25	5.7	<i>Odostomia sp.</i>
3	B06	1	0	<i>Rictaxis punctostriatus</i>
3	B06	1	3.5	<i>Mulinia lateralis</i>
3	B06	1	0	<i>Ensis directus</i>
3	B06	14	3.8	<i>Mya arenaria</i>
3	B06	1	1.5	<i>Neomysis americana</i>
3	B06	1	0	<i>Leucon americanus</i>
3	B06	3	1.9	<i>Edotea triloba</i>
3	B07	3	1.7	<i>Rhynchochoela</i>
3	B07	2	10.7	<i>Glycera americana</i>
3	B07	93	92.1	<i>Leitoscoloplos sp.</i>
3	B07	4	0.7	<i>Streblospio benedicti</i>
3	B07	1	0	<i>Tharyx sp. A</i>
3	B07	19	2.5	<i>Mediomastus ambiseta</i>
3	B07	2	64	<i>Pectinaria gouldii</i>
3	B07	3	0.6	<i>Asabellides oculata</i>
3	B07	4	1.1	<i>Odostomia sp.</i>
3	B07	1	0	<i>Rictaxis punctostriatus</i>
3	B07	9	240.8	<i>Mulinia lateralis</i>
3	B07	2	1	<i>Mya arenaria</i>
3	B07	20	4.5	<i>Leucon americanus</i>
3	B07	1	0	<i>Edotea triloba</i>
3	B07	1	0	<i>Microdeutopus gryllotalpa</i>
3	B07	1	0	<i>Unciola serrata</i>
3	B08	5	20.9	<i>Glycera americana</i>
3	B08	136	83.6	<i>Leitoscoloplos sp.</i>
3	B08	8	1.2	<i>Streblospio benedicti</i>
3	B08	7	1	<i>Tharyx sp. A</i>
3	B08	37	230.7	<i>Mediomastus ambiseta</i>
3	B08	14	1141	<i>Pectinaria gouldii</i>
3	B08	6	0	<i>Oligochaeta</i>
3	B08	5	1	<i>Odostomia sp.</i>
3	B08	15	38.8	<i>Rictaxis punctostriatus</i>
3	B08	9	578.7	<i>Mulinia lateralis</i>
3	B08	1	20.5	<i>Tellina agilis</i>
3	B08	1	0	<i>Mya arenaria</i>
3	B08	6	0.9	<i>Leucon americanus</i>
3	B09	1	0	<i>Hypereteone heteropoda</i>
3	B09	1	0	<i>Podarkeopsis levifuscina</i>
3	B09	1	74.2	<i>Nephtys incisa</i>
3	B09	3	31.7	<i>Glycera americana</i>
3	B09	36	41.4	<i>Leitoscoloplos robustus</i>
3	B09	2	0	<i>Tharyx sp. A</i>
3	B09	14	1.4	<i>Mediomastus ambiseta</i>
3	B09	2	55.1	<i>Pectinaria gouldii</i>
3	B09	1	0	<i>Asabellides oculata</i>
3	B09	0	0.6	<i>Annelida fragments</i>

Sample month	Station	Abundance	Weight, mg	Taxon
3	B09	2	0	<i>Oligochaeta</i>
3	B09	2	0.6	<i>Odostomia sp.</i>
3	B09	4	1.1	<i>Rictaxis punctostriatus</i>
3	B09	1	112.6	<i>Mulinia lateralis</i>
3	B09	2	0	<i>Ensis directus</i>
3	B09	1	0	<i>Tellina agilis</i>
3	B09	1	0.5	<i>Mya arenaria</i>
3	B09	26	5.6	<i>Leucon americanus</i>
3	B09	5	2.5	<i>Edotea triloba</i>
3	B09	5	5.4	<i>Ampelisca abdita</i>
3	B09	1	0	<i>Unciola serrata</i>
3	B10	1	0	<i>Leitoscoloplos robustus</i>
3	B10	1	0	<i>Polydora cornuta</i>
3	B10	2	0	<i>Mediomastus ambiseta</i>
3	B10	3	4.2	<i>Sabellaria vulgaris</i>
3	B10	3	295.2	<i>Pectinaria gouldii</i>
3	B10	1	0	<i>Oligochaeta</i>
3	B10	4	0	<i>Rictaxis punctostriatus</i>
3	B10	42	9.4	<i>Leucon americanus</i>
3	B10	1	0	<i>Oxyurostylis smithi</i>
3	B10	1	0	<i>Unciola serrata</i>
3	B11	2	0	<i>Leitoscoloplos sp.</i>
3	B11	3	0	<i>Streblospio benedicti</i>
3	B11	1	0	<i>Tharyx sp. A</i>
3	B11	0	0.6	<i>Annelida fragments</i>
3	B11	1	0	<i>Oligochaeta</i>
3	B11	3	5.4	<i>Mulinia lateralis</i>
3	B11	1	0	<i>Leucon americanus</i>
3	B11	1	0	<i>Chironomidae</i>
3	B12	1	0	<i>Rhynchocoela</i>
3	B12	1	0	<i>Hypereteone heteropoda</i>
3	B12	1	1.4	<i>Glycera americana</i>
3	B12	51	261.8	<i>Leitoscoloplos robustus</i>
3	B12	1	0	<i>Streblospio benedicti</i>
3	B12	37	39	<i>Tharyx sp. A</i>
3	B12	1	0	<i>Mediomastus ambiseta</i>
3	B12	1	44.8	<i>Pectinaria gouldii</i>
3	B12	1	0	<i>Asabellides oculata</i>
3	B12	2	0	<i>Oligochaeta</i>
3	B12	3	1.3	<i>Odostomia sp.</i>
3	B12	2	13.1	<i>Rictaxis punctostriatus</i>
3	B12	7	9.7	<i>Mulinia lateralis</i>
3	B12	2	0.9	<i>Mya arenaria</i>
3	B12	31	8.3	<i>Leucon americanus</i>
3	B13	8	1.6	<i>Hypereteone heteropoda</i>
3	B13	1	13.2	<i>Hypereteone foliosa</i>
3	B13	4	21.8	<i>Glycera americana</i>

Sample month	Station	Abundance	Weight, mg	Taxon
3	B13	31	16.6	<i>Leitoscoloplos robustus</i>
3	B13	3	0	<i>Polydora cornuta</i>
3	B13	170	78.1	<i>Streblospio benedicti</i>
3	B13	27	3.3	<i>Tharyx sp. A</i>
3	B13	11	1.9	<i>Mediomastus ambiseta</i>
3	B13	4	14	<i>Sabellaria vulgaris</i>
3	B13	3	63.2	<i>Pectinaria gouldii</i>
3	B13	3	0.7	<i>Asabellides oculata</i>
3	B13	0	14	<i>Annelida fragments</i>
3	B13	10	1.8	<i>Oligochaeta</i>
3	B13	77	30	<i>Odostomia sp.</i>
3	B13	13	46.1	<i>Rictaxis punctostriatus</i>
3	B13	9	43.8	<i>Mulinia lateralis</i>
3	B13	2	401	<i>Ensis directus</i>
3	B13	40	68.6	<i>Mya arenaria</i>
3	B13	1	0.8	<i>Balanus improvisus</i>
3	B13	28	4.8	<i>Leucon americanus</i>
3	B13	1	12.4	<i>Cyathura polita</i>
3	B13	3	0.9	<i>Edotea triloba</i>
3	B13	1	0.8	<i>Ampelisca sp.</i>
3	B13	1	53.8	<i>Rhithropanopeus harrisii</i>
3	B13	3	0	<i>Molgula manhattensis</i>
3	B14	2	13.8	<i>Glycera americana</i>
3	B14	26	51.4	<i>Leitoscoloplos sp.</i>
3	B14	1	0	<i>Mediomastus ambiseta</i>
3	B14	1	24.3	<i>Pectinaria gouldii</i>
3	B14	40	15.1	<i>Leucon americanus</i>
3	B15	1	0	<i>Rhynchocoela</i>
3	B15	2	0	<i>Hypereteone heteropoda</i>
3	B15	39	51	<i>Leitoscoloplos robustus</i>
3	B15	1	0	<i>Tharyx sp. A</i>
3	B15	1	0	<i>Mediomastus ambiseta</i>
3	B15	0	7.2	<i>Annelida fragments</i>
3	B15	1	1	<i>Neomysis americana</i>
3	B15	85	20.5	<i>Leucon americanus</i>
3	B15	1	0	<i>Unciola serrata</i>
3	B16	1	0	<i>Hypereteone heteropoda</i>
3	B16	2	40.4	<i>Glycera americana</i>
3	B16	109	168	<i>Leitoscoloplos robustus</i>
3	B16	2	0	<i>Mediomastus ambiseta</i>
3	B16	2	43.6	<i>Pectinaria gouldii</i>
3	B16	0	0.1	<i>Annelida fragments</i>
3	B16	3	0	<i>Oligochaeta</i>
3	B16	1	0	<i>Odostomia sp.</i>
3	B16	5	11.9	<i>Rictaxis punctostriatus</i>
3	B16	54	14	<i>Leucon americanus</i>
3	B17	1	0.8	<i>Rhynchocoela</i>

Sample month	Station	Abundance	Weight, mg	Taxon
3	B17	1	1.1	<i>Hypereteone heteropoda</i>
3	B17	1	26.7	<i>Glycera americana</i>
3	B17	25	25.4	<i>Leitoscoloplos robustus</i>
3	B17	1	72.9	<i>Pectinaria gouldii</i>
3	B17	1	6.9	<i>Mya arenaria</i>
3	B17	64	16.7	<i>Leucon americanus</i>
3	B18	1	0	<i>Hypereteone heteropoda</i>
3	B18	7	5.8	<i>Leitoscoloplos robustus</i>
3	B18	1	12	<i>Pectinaria gouldii</i>
3	B18	1	0	<i>Rictaxis punctostriatus</i>
3	V1	3	0	<i>Hypereteone heteropoda</i>
3	V1	1	0	<i>Neanthes succinea</i>
3	V1	3	13	<i>Glycera americana</i>
3	V1	22	39.8	<i>Leitoscoloplos robustus</i>
3	V1	1	0	<i>Polydora spp.</i>
3	V1	1	0	<i>Polydora cornuta</i>
3	V1	2	2.5	<i>Spio setosa</i>
3	V1	294	213.2	<i>Streblospio benedicti</i>
3	V1	2	0	<i>Tharyx sp. A</i>
3	V1	1	0.6	<i>Heteromastus filiformis</i>
3	V1	65	3.4	<i>Mediomastus ambiseta</i>
3	V1	1	19.1	<i>Pectinaria gouldii</i>
3	V1	0	3.4	<i>Annelida fragments</i>
3	V1	1	0	<i>Oligochaeta</i>
3	V1	19	5	<i>Odostomia sp.</i>
3	V1	1	0.6	<i>Rictaxis punctostriatus</i>
3	V1	3	0.7	<i>Mulinia lateralis</i>
3	V1	1	0	<i>Ensis directus</i>
3	V1	8	9.5	<i>Mya arenaria</i>
3	V1	1	0	<i>Balanus improvisus</i>
3	V1	1	0	<i>Leucon americanus</i>
3	V1	1	0	<i>Corophium sp.</i>
3	V2	3	14	<i>Rhynchocoela</i>
3	V2	2	0	<i>Hypereteone heteropoda</i>
3	V2	1	0	<i>Podarkeopsis levifuscina</i>
3	V2	2	228.1	<i>Glycera americana</i>
3	V2	44	313.9	<i>Leitoscoloplos robustus</i>
3	V2	10	16.9	<i>Polydora cornuta</i>
3	V2	1	0	<i>Tharyx sp. A</i>
3	V2	2	1.4	<i>Heteromastus filiformis</i>
3	V2	20	1.5	<i>Mediomastus ambiseta</i>
3	V2	0	1.6	<i>Annelida fragments</i>
3	V2	4	4.7	<i>Rictaxis punctostriatus</i>
3	V2	12	380	<i>Mulinia lateralis</i>
3	V2	13	13.9	<i>Mya arenaria</i>
3	V2	20	7.1	<i>Leucon americanus</i>
3	V2	1	1.5	<i>Ampelisca abdita</i>

Sample month	Station	Abundance	Weight, mg	Taxon
3	V2	1	0	<i>Monoculodes sp. 1</i>
3	V3	3	68.2	<i>Glycera americana</i>
3	V3	28	102.3	<i>Leitoscoloplos robustus</i>
3	V3	4	10.6	<i>Polydora cornuta</i>
3	V3	1	0	<i>Tharyx sp. A</i>
3	V3	4	6.8	<i>Heteromastus filiformis</i>
3	V3	1	0	<i>Mediomastus ambiseta</i>
3	V3	0	0.9	<i>Annelida fragments</i>
3	V3	1	0	<i>Gastropoda</i>
3	V3	5	2.9	<i>Rictaxis punctostriatus</i>
3	V3	24	881.9	<i>Mulinia lateralis</i>
3	V3	2	0.6	<i>Ensis directus</i>
3	V3	14	2284.1	<i>Mya arenaria</i>
3	V3	7	1	<i>Leucon americanus</i>
3	V3	3	3.6	<i>Ampelisca abdita</i>
3	V4	1	1	<i>Hypereteone heteropoda</i>
3	V4	2	45.5	<i>Glycera americana</i>
3	V4	53	415	<i>Leitoscoloplos robustus</i>
3	V4	5	19.6	<i>Polydora cornuta</i>
3	V4	1	0	<i>Tharyx sp. A</i>
3	V4	1	0.5	<i>Heteromastus filiformis</i>
3	V4	0	1	<i>Annelida fragments</i>
3	V4	5	1	<i>Rictaxis punctostriatus</i>
3	V4	35	348	<i>Mulinia lateralis</i>
3	V4	3	7.4	<i>Mya arenaria</i>
3	V4	54	10.2	<i>Leucon americanus</i>
3	V4	1	0	<i>Ampelisca abdita</i>
3	V5	1	34.5	<i>Glycera americana</i>
3	V5	61	599.6	<i>Leitoscoloplos robustus</i>
3	V5	3	19	<i>Polydora cornuta</i>
3	V5	1	0	<i>Tharyx sp. A</i>
3	V5	3	1.3	<i>Rictaxis punctostriatus</i>
3	V5	19	269.7	<i>Mulinia lateralis</i>
3	V5	7	1313.8	<i>Mya arenaria</i>
3	V5	19	5.5	<i>Leucon americanus</i>
3	V5	1	5.4	<i>Ampelisca abdita</i>
3	V6	1	0	<i>Podarkeopsis levifuscina</i>
3	V6	2	138.4	<i>Glycera americana</i>
3	V6	53	457.8	<i>Leitoscoloplos robustus</i>
3	V6	2	10.7	<i>Polydora cornuta</i>
3	V6	2	0.5	<i>Tharyx sp. A</i>
3	V6	1	234.8	<i>Pectinaria gouldii</i>
3	V6	1	0	<i>Odostomia sp.</i>
3	V6	15	7	<i>Rictaxis punctostriatus</i>
3	V6	1	0	<i>Cylichnella bidentata</i>
3	V6	23	667.3	<i>Mulinia lateralis</i>
3	V6	6	3.5	<i>Mya arenaria</i>

Sample month	Station	Abundance	Weight, mg	Taxon
3	V6	47	17.8	<i>Leucon americanus</i>
3	V6	1	0	<i>Oxyurostylis smithi</i>
3	V6	12	16.7	<i>Ampelisca abdita</i>
3	V7	1	0	<i>Hypereteone heteropoda</i>
3	V7	1	7.6	<i>Hypereteone foliosa</i>
3	V7	1	1.8	<i>Neanthes succinea</i>
3	V7	2	125.8	<i>Glycera americana</i>
3	V7	49	510.2	<i>Leitoscoloplos robustus</i>
3	V7	1	3.3	<i>Polydora cornuta</i>
3	V7	1	0.7	<i>Sabellaria vulgaris</i>
3	V7	7	4.5	<i>Rictaxis punctostriatus</i>
3	V7	9	42.9	<i>Mulinia lateralis</i>
3	V7	2	0.5	<i>Mya arenaria</i>
3	V7	22	6.7	<i>Leucon americanus</i>
4	B01	1	0.1	<i>Hypereteone heteropoda</i>
4	B01	1	0.1	<i>Glycera americana</i>
4	B01	8	17.1	<i>Leitoscoloplos robustus</i>
4	B01	1	0.1	<i>Polydora cornuta</i>
4	B01	2	14.8	<i>Spio setosa</i>
4	B01	47	20.9	<i>Streblospio benedicti</i>
4	B01	281	387.8	<i>Tharyx sp. A</i>
4	B01	3	1.9	<i>Heteromastus filiformis</i>
4	B01	3	1.4	<i>Sabellaria vulgaris</i>
4	B01	35	1.3	<i>Oligochaeta</i>
4	B01	25	11.2	<i>Odostomia sp.</i>
4	B01	2	0.1	<i>Macoma balthica</i>
4	B01	3	49.9	<i>Mya arenaria</i>
4	B01	9	1	<i>Leucon americanus</i>
4	B01	1	0.1	<i>Edotea triloba</i>
4	B02	1	30.1	<i>Anthozoa</i>
4	B02	5	1.9	<i>Hypereteone heteropoda</i>
4	B02	1	0.1	<i>Glycera americana</i>
4	B02	30	73.7	<i>Leitoscoloplos robustus</i>
4	B02	4	5	<i>Polydora cornuta</i>
4	B02	139	52.3	<i>Streblospio benedicti</i>
4	B02	502	590.7	<i>Tharyx sp. A</i>
4	B02	1	0.1	<i>Heteromastus filiformis</i>
4	B02	17	1	<i>Mediomastus ambiseta</i>
4	B02	3	12	<i>Sabellaria vulgaris</i>
4	B02	3	151.3	<i>Pectinaria gouldii</i>
4	B02	0	16.4	<i>Annelida fragments</i>
4	B02	56	4.9	<i>Oligochaeta</i>
4	B02	1	0.1	<i>Epitonium sp.</i>
4	B02	28	15.8	<i>Odostomia sp.</i>
4	B02	11	33	<i>Rictaxis punctostriatus</i>
4	B02	2	99.3	<i>Mulinia lateralis</i>
4	B02	5	0.1	<i>Macoma balthica</i>

Sample month	Station	Abundance	Weight, mg	Taxon
4	B02	12	153.6	<i>Mya arenaria</i>
4	B02	3	574.9	<i>Bivalve siphons</i>
4	B02	1	6.8	<i>Balanus improvisus</i>
4	B02	4	0.1	<i>Leucon americanus</i>
4	B02	1	1.3	<i>Unciola serrata</i>
4	B02	1	93.9	<i>Crangon septemspinosa</i>
4	B02	1	0.1	<i>Echinoidea</i>
4	B03	3	0.1	<i>Hypereteone heteropoda</i>
4	B03	5	15.6	<i>Glycera americana</i>
4	B03	68	73.3	<i>Leitoscoloplos robustus</i>
4	B03	4	17.8	<i>Polydora cornuta</i>
4	B03	7	1.8	<i>Streblospio benedicti</i>
4	B03	348	318.7	<i>Tharyx sp. A</i>
4	B03	190	12.2	<i>Mediomastus ambiseta</i>
4	B03	12	742.6	<i>Pectinaria gouldii</i>
4	B03	0	19.7	<i>Annelida fragments</i>
4	B03	34	1.3	<i>Oligochaeta</i>
4	B03	41	18.7	<i>Odostomia sp.</i>
4	B03	2	6.5	<i>Rictaxis punctostriatus</i>
4	B03	4	128.3	<i>Mulinia lateralis</i>
4	B03	2	0.1	<i>Macoma balthica</i>
4	B03	22	427.1	<i>Mya arenaria</i>
4	B03	21	4.7	<i>Leucon americanus</i>
4	B04	6	0.1	<i>Hypereteone heteropoda</i>
4	B04	4	24.1	<i>Glycera americana</i>
4	B04	54	150.7	<i>Leitoscoloplos robustus</i>
4	B04	9	7.1	<i>Polydora cornuta</i>
4	B04	4	0.1	<i>Streblospio benedicti</i>
4	B04	17	2.9	<i>Tharyx sp. A</i>
4	B04	6	50.4	<i>Heteromastus filiformis</i>
4	B04	8	0.9	<i>Mediomastus ambiseta</i>
4	B04	9	728.9	<i>Pectinaria gouldii</i>
4	B04	0	5.9	<i>Annelida fragments</i>
4	B04	11	0.1	<i>Oligochaeta</i>
4	B04	13	5	<i>Odostomia sp.</i>
4	B04	7	67	<i>Mulinia lateralis</i>
4	B04	19	62.2	<i>Mya arenaria</i>
4	B04	60	13.2	<i>Leucon americanus</i>
4	B04	6	3.5	<i>Edotea triloba</i>
4	B04	1	37	<i>Crangon septemspinosa</i>
4	B05	4	15.9	<i>Anthozoa</i>
4	B05	4	1.7	<i>Hypereteone heteropoda</i>
4	B05	3	0.1	<i>Eumida sanguinea</i>
4	B05	1	0.1	<i>Proceraea cornuta</i>
4	B05	1	2.2	<i>Neanthes succinea</i>
4	B05	8	5	<i>Leitoscoloplos robustus</i>
4	B05	14	11.6	<i>Polydora cornuta</i>

Sample month	Station	Abundance	Weight, mg	Taxon
4	B05	285	157.5	<i>Streblospio benedicti</i>
4	B05	4	0.1	<i>Tharyx sp. A</i>
4	B05	12	0.1	<i>Mediomastus ambiseta</i>
4	B05	35	127.6	<i>Sabellaria vulgaris</i>
4	B05	2	0.1	<i>Asabellides oculata</i>
4	B05	0	3.9	<i>Annelida fragments</i>
4	B05	26	2.3	<i>Oligochaeta</i>
4	B05	29	6.7	<i>Odostomia sp.</i>
4	B05	12	9221.3	<i>Mya arenaria</i>
4	B05	36	4.5	<i>Leucon americanus</i>
4	B05	1	0.5	<i>Edotea triloba</i>
4	B05	58	55	<i>Unciola serrata</i>
4	B05	1	193.8	<i>Crangon septemspinosa</i>
4	B05	9	7.2	<i>Molgula manhattensis</i>
4	B06	2	0.1	<i>Leitoscoloplos robustus</i>
4	B06	3	2.7	<i>Polydora cornuta</i>
4	B06	6	1.1	<i>Streblospio benedicti</i>
4	B06	2	0.1	<i>Tharyx sp. A</i>
4	B06	1	0.1	<i>Mediomastus ambiseta</i>
4	B06	4	237.9	<i>Pectinaria gouldii</i>
4	B06	1	0.1	<i>Oligochaeta</i>
4	B06	1	0.1	<i>Gastropoda</i>
4	B06	3	194	<i>Mulinia lateralis</i>
4	B06	9	9.5	<i>Mya arenaria</i>
4	B06	53	16	<i>Leucon americanus</i>
4	B06	1	51.7	<i>Crangon septemspinosa</i>
4	B07	7	1	<i>Leitoscoloplos robustus</i>
4	B07	1	0.5	<i>Polydora cornuta</i>
4	B07	3	142.1	<i>Pectinaria gouldii</i>
4	B07	3	293.6	<i>Mulinia lateralis</i>
4	B07	26	6.3	<i>Leucon americanus</i>
4	B08	7	0.5	<i>Polydora cornuta</i>
4	B09	1	250.5	<i>Nephtys incisa</i>
4	B09	22	8.7	<i>Leitoscoloplos robustus</i>
4	B09	2	0.5	<i>Tharyx sp. A</i>
4	B09	2	5.9	<i>Heteromastus filiformis</i>
4	B09	5	341.5	<i>Pectinaria gouldii</i>
4	B09	2	0.1	<i>Oligochaeta</i>
4	B09	4	118.5	<i>Mulinia lateralis</i>
4	B09	23	4.8	<i>Leucon americanus</i>
4	B10	1	1.1	<i>Hypereteone heteropoda</i>
4	B10	4	244	<i>Glycera americana</i>
4	B10	65	51.7	<i>Leitoscoloplos robustus</i>
4	B10	58	40.5	<i>Polydora cornuta</i>
4	B10	1	0.1	<i>Tharyx sp. A</i>
4	B10	2	4.3	<i>Heteromastus filiformis</i>
4	B10	6	0.1	<i>Mediomastus ambiseta</i>

Sample month	Station	Abundance	Weight, mg	Taxon
4	B10	6	2.4	<i>Sabellaria vulgaris</i>
4	B10	12	419.8	<i>Pectinaria gouldii</i>
4	B10	0	10.8	<i>Annelida fragments</i>
4	B10	2	0.1	<i>Oligochaeta</i>
4	B10	2	0.1	<i>Rictaxis punctostriatus</i>
4	B10	5	468.2	<i>Mulinia lateralis</i>
4	B10	2	4.3	<i>Barnea truncata</i>
4	B10	1	22	<i>Balanus improvisus</i>
4	B10	7	0.8	<i>Leucon americanus</i>
4	B10	4	2.4	<i>Unciola serrata</i>
4	B10	1	0.1	<i>Parapleustes aestuarius</i>
4	B10	1	484.6	<i>Rhithropanopeus harrisii</i>
4	B10	1	4	<i>Molgula manhattensis</i>
4	B11	1	3.6	<i>Hypereteone foliosa</i>
4	B11	5	2.4	<i>Leitoscoloplos robustus</i>
4	B11	2	0.8	<i>Streblospio benedicti</i>
4	B11	1	0.1	<i>Tharyx sp. A</i>
4	B11	2	33.5	<i>Mya arenaria</i>
4	B11	11	1.6	<i>Leucon americanus</i>
4	B12	2	0.1	<i>Hypereteone heteropoda</i>
4	B12	29	180.6	<i>Leitoscoloplos robustus</i>
4	B12	21	11.5	<i>Tharyx sp. A</i>
4	B12	3	0.1	<i>Mediomastus ambiseta</i>
4	B12	12	5.6	<i>Oligochaeta</i>
4	B12	1	0.5	<i>Odostomia sp.</i>
4	B12	2	6.5	<i>Rictaxis punctostriatus</i>
4	B12	3	6.2	<i>Mulinia lateralis</i>
4	B12	1	0.1	<i>Tellina agilis</i>
4	B12	3	17.2	<i>Mya arenaria</i>
4	B12	60	17.1	<i>Leucon americanus</i>
4	B13	2	0.1	<i>Hypereteone heteropoda</i>
4	B13	1	21.8	<i>Glycera americana</i>
4	B13	17	103	<i>Leitoscoloplos robustus</i>
4	B13	1	1.6	<i>Polydora cornuta</i>
4	B13	61	73	<i>Streblospio benedicti</i>
4	B13	11	3.3	<i>Tharyx sp. A</i>
4	B13	1	3.3	<i>Heteromastus filiformis</i>
4	B13	25	1.2	<i>Mediomastus ambiseta</i>
4	B13	1	46.4	<i>Pectinaria gouldii</i>
4	B13	9	0.1	<i>Oligochaeta</i>
4	B13	6	1.5	<i>Odostomia sp.</i>
4	B13	1	5	<i>Rictaxis punctostriatus</i>
4	B13	7	26.8	<i>Mulinia lateralis</i>
4	B13	4	60.8	<i>Mya arenaria</i>
4	B13	116	43.8	<i>Leucon americanus</i>
4	B13	1	4	<i>Edotea triloba</i>
4	B14	37	191.6	<i>Leitoscoloplos robustus</i>

Sample month	Station	Abundance	Weight, mg	Taxon
4	B14	3	1.2	<i>Streblospio benedicti</i>
4	B14	1	0.1	<i>Tharyx sp. A</i>
4	B14	2	2.2	<i>Heteromastus filiformis</i>
4	B14	3	153	<i>Pectinaria gouldii</i>
4	B14	1	0.1	<i>Oligochaeta</i>
4	B14	24	4.7	<i>Leucon americanus</i>
4	B15	7	5.4	<i>Leitoscoloplos robustus</i>
4	B15	7	1	<i>Leucon americanus</i>
4	B16	127	155.9	<i>Leitoscoloplos robustus</i>
4	B16	1	0.1	<i>Streblospio benedicti</i>
4	B16	1	0.6	<i>Heteromastus filiformis</i>
4	B16	2	132.8	<i>Pectinaria gouldii</i>
4	B16	1	0.1	<i>Oligochaeta</i>
4	B16	15	3.1	<i>Leucon americanus</i>
4	B17	1	34.2	<i>Glycera americana</i>
4	B17	8	78.8	<i>Leitoscoloplos robustus</i>
4	B17	1	0.1	<i>Streblospio benedicti</i>
4	B17	1	0.1	<i>Tharyx sp. A</i>
4	B17	6	479.7	<i>Pectinaria gouldii</i>
4	B17	2	0.1	<i>Oligochaeta</i>
4	B17	1	1464.9	<i>Macoma balthica</i>
4	B17	115	35.5	<i>Leucon americanus</i>
4	B18	2	0.1	<i>Leitoscoloplos robustus</i>
4	B18	1	0.1	<i>Mediomastus ambiseta</i>
4	B18	2	150.7	<i>Pectinaria gouldii</i>
4	B18	30	5.3	<i>Leucon americanus</i>
4	V1	2	0.1	<i>Hypereteone heteropoda</i>
4	V1	1	2.6	<i>Glycera americana</i>
4	V1	33	175.8	<i>Leitoscoloplos robustus</i>
4	V1	4	5.7	<i>Polydora cornuta</i>
4	V1	4	1.8	<i>Spio setosa</i>
4	V1	117	46.4	<i>Streblospio benedicti</i>
4	V1	9	1.8	<i>Tharyx sp. A</i>
4	V1	4	4.4	<i>Heteromastus filiformis</i>
4	V1	21	0.9	<i>Mediomastus ambiseta</i>
4	V1	1	0.1	<i>Oligochaeta</i>
4	V1	32	9.6	<i>Odostomia sp.</i>
4	V1	2	12.8	<i>Mulinia lateralis</i>
4	V1	3	10.4	<i>Mya arenaria</i>
4	V1	2	0.1	<i>Leucon americanus</i>
4	V2	3	183.2	<i>Anthozoa</i>
4	V2	1	0.1	<i>Hypereteone heteropoda</i>
4	V2	8	33.3	<i>Neanthes succinea</i>
4	V2	2	5	<i>Glycera americana</i>
4	V2	16	14.7	<i>Leitoscoloplos robustus</i>
4	V2	9	1.8	<i>Polydora cornuta</i>
4	V2	277	111.3	<i>Streblospio benedicti</i>

Sample month	Station	Abundance	Weight, mg	Taxon
4	V2	4	0.1	<i>Marenzelleria viridis</i>
4	V2	5	1.2	<i>Tharyx sp. A</i>
4	V2	163	7.7	<i>Mediomastus ambiseta</i>
4	V2	1	0.1	<i>Asabellides oculata</i>
4	V2	1	0.8	<i>Sabellidae</i>
4	V2	0	1.8	<i>Annelida fragments</i>
4	V2	1	0.1	<i>Oligochaeta</i>
4	V2	1	2.9	<i>Epitonium sp.</i>
4	V2	3	0.7	<i>Odostomia sp.</i>
4	V2	4	2.4	<i>Doradella obscura</i>
4	V2	11	401.5	<i>Mya arenaria</i>
4	V2	32	2565.1	<i>Balanus improvisus</i>
4	V2	10	2.2	<i>Leucon americanus</i>
4	V2	2	0.7	<i>Unciola serrata</i>
4	V2	8	6.2	<i>Melita nitida</i>
4	V2	2	80.1	<i>Rhithropanopeus harrisi</i>
4	V2	1	0.1	<i>Asteroidea</i>
4	V2	3	258.9	<i>Molgula manhattensis</i>
4	V3	2	56.9	<i>Glycera americana</i>
4	V3	52	292.4	<i>Leitoscoloplos robustus</i>
4	V3	4	6.8	<i>Polydora cornuta</i>
4	V3	9	1.8	<i>Tharyx sp. A</i>
4	V3	42	1.9	<i>Mediomastus ambiseta</i>
4	V3	1	0.1	<i>Oligochaeta</i>
4	V3	1	0.1	<i>Odostomia sp.</i>
4	V3	4	0.9	<i>Rictaxis punctostriatus</i>
4	V3	41	740.6	<i>Mulinia lateralis</i>
4	V3	17	104.2	<i>Mya arenaria</i>
4	V3	205	64.1	<i>Leucon americanus</i>
4	V3	1	0.1	<i>Edotea triloba</i>
4	V3	1	0.1	<i>Ampelisca abdita</i>
4	V3	1	8	<i>Crangon septemspinosa</i>
4	V4	1	0.1	<i>Rhynchocoela</i>
4	V4	1	84.8	<i>Neanthes succinea</i>
4	V4	1	25.3	<i>Glycera americana</i>
4	V4	49	385.1	<i>Leitoscoloplos robustus</i>
4	V4	6	28.3	<i>Polydora cornuta</i>
4	V4	1	0.1	<i>Streblospio benedicti</i>
4	V4	3	1.2	<i>Tharyx sp. A</i>
4	V4	1	9.3	<i>Heteromastus filiformis</i>
4	V4	4	0.1	<i>Mediomastus ambiseta</i>
4	V4	1	0.1	<i>Odostomia sp.</i>
4	V4	3	0.8	<i>Rictaxis punctostriatus</i>
4	V4	29	551.7	<i>Mulinia lateralis</i>
4	V4	18	3549.6	<i>Mya arenaria</i>
4	V4	78	26.1	<i>Leucon americanus</i>
4	V4	1	0.1	<i>Ampelisca abdita</i>

Sample month	Station	Abundance	Weight, mg	Taxon
4	V5	2	19.2	<i>Glycera americana</i>
4	V5	55	382.1	<i>Leitoscoloplos robustus</i>
4	V5	5	21.4	<i>Polydora cornuta</i>
4	V5	2	0.1	<i>Tharyx sp. A</i>
4	V5	1	0.1	<i>Mediomastus ambiseta</i>
4	V5	1	0.5	<i>Rictaxis punctostriatus</i>
4	V5	27	278.8	<i>Mulinia lateralis</i>
4	V5	2	1.5	<i>Mya arenaria</i>
4	V5	7	2.2	<i>Leucon americanus</i>
4	V6	2	68.1	<i>Glycera americana</i>
4	V6	28	223.5	<i>Leitoscoloplos robustus</i>
4	V6	2	2	<i>Polydora cornuta</i>
4	V6	1	0.1	<i>Streblospio benedicti</i>
4	V6	1	0.1	<i>Tharyx sp. A</i>
4	V6	1	0.1	<i>Mediomastus ambiseta</i>
4	V6	1	80.8	<i>Pectinaria gouldii</i>
4	V6	1	0.1	<i>Odostomia sp.</i>
4	V6	3	1.6	<i>Rictaxis punctostriatus</i>
4	V6	14	175.5	<i>Mulinia lateralis</i>
4	V6	13	59.9	<i>Mya arenaria</i>
4	V6	36	10.7	<i>Leucon americanus</i>
4	V7	3	2.5	<i>Hypereteone heteropoda</i>
4	V7	1	4	<i>Hypereteone foliosa</i>
4	V7	1	124	<i>Glycera americana</i>
4	V7	62	429.7	<i>Leitoscoloplos robustus</i>
4	V7	14	83.7	<i>Polydora cornuta</i>
4	V7	2	0.1	<i>Streblospio benedicti</i>
4	V7	2	1.5	<i>Tharyx sp. A</i>
4	V7	1	0.8	<i>Heteromastus filiformis</i>
4	V7	7	0.1	<i>Mediomastus ambiseta</i>
4	V7	2	0.1	<i>Odostomia sp.</i>
4	V7	4	35.7	<i>Mulinia lateralis</i>
4	V7	17	4.4	<i>Leucon americanus</i>

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