Table IV-8. Percentage silt-clay content of sediments from long-term benthic monitoring stations in Chesapeake Bay, July 1984 to July 1987. Dashes indicate missing data.

Station	Average Station Depth	1984 Jul	1984 Aug	1984 Sep	1984 Oct/Nov	1984 Dec	1985 Jan/Feb	1985 Mar	1985 Apr	1985 May	1985 Jun	1985 Jul	1985 Aug	1985 Sep	1985 Nov	1985 Dec
Sand																
01	2.3	0.95	1.39	1.64	0.85	0.39	1.23	1.44	1.30	1.19	0.67	0.58	0.46	0.68	1.36	0.24
02	6.1	1.73	0.82	0.59	1.72	1.27	1.33	0.95	0.71	1.09	0.68	0.72	0.73	0.29	1.04	0.92
05	3.0	2.69	2.33	5.35	2.96	2.37	4.75	3.43	2.00	1.72	1.40	6.23	1.73	1.49	2.40	4.42
06	2.9	0.94	1.45	1.82	1.34	0.70	1.12	12.90	2.09	1.77	0.53	0.60	0.69	0.72	0.68	0.32
07	5.7	2.22	2.19	1.71	1.77	3.21	1.59	2.39	1.98	2.28	1.76	1.84	1.40	1.25	0.95	3.11
09	2.8	0.38	1.11	1.31	1.56	1.11	1.20	1.04	1.38	0.77	0.83	0.53	0.50	0.51	1.18	0.79
10	6.5	6.11	6.77	6.49	14.23	13.94	5.92	1.93	5.31	6.90	6.27	2.15	11.53	12.73	6.18	14.41
12	2.1	1.14	1.03	1.50	1.19	1.12	1.04	1.19	0.99	0.81	0.91	1.53	0.43	1.13	1.11	1.13
13	5.9	0.99	3.38	1.09	1.65	2.64	1.92	1.88	1.85	1.42	1.86	1.38	1.47	1.03	0.48	0.64
15	2.2	1.75	1.66	1.53	1.46	1.24	1.59	1.88	0.95	2.13	1.18	0.91	2.80	1.80	3.28	1.49
18	2.7	1.24	1.13	3.92	2.19	1.52	1.69	1.87	1.46	1.54	1.16	1.90	1.40	4.55	1.62	1.26
43	2.5	4.57	6.50	5.55	5.29	4.40	4.79	6.06	4.70	4.46	7.73	4.84	8.62	3.61	6.85	4.99
45	2.5	4.98	2.51	5.23	4.65	3.13	5.75	8.86	6.14	4.24	3.12	2.83	5.09	5.90	5.88	2.74
47*	2.3	13.06	15.96	15.51	8.64	12.55	18.21	-	6.30	5.42	5.25	5.62	2.84	5.26	7.11	5.90
49	2.2	5.04	3.35	2.52	2.48	3.45	2.05	4.41	1.79	2.99	2.38	2.58	2.81	2.17	5.42	2.76
51	2.5	1.97	2.39	2.48	2.28	0.71	1.52	2.59	3.32	2.49	1.37	1.46	2.37	1.25	2.13	1.16
53	2.7	0.93	2.38	1.64	1.41	1.76	1.96	1.33	1.14	1.57	0.99	1.13	1.00	1.25	0.41	1.53
55	2.8	1.27	1.24	1.15	2.08	1.00	1.43	2.06	1.66	1.49	1.46	0.89	0.48	0.81	1.62	0.99
56	2.7	1.30	0.98	0.96	1.62	1.74	0.98	1.49	1.03	1.60	1.43	0.88	1.15	0.49	1.73	1.24
59	2.7	1.20	0.57	0.83	1.20	0.81	0.89	1.20	1.19	0.12	0.72	0.57	0.67	0.76	0.78	0.38
Muddy Sand																
19	3.1	14.02	3.48	15.70	9.68	9.05	12.73	4.73	15.36	6.74	8.47	20.80	8.37	6.18	12.51	6.71
39	2.2	25.57	76.15	26.05	91.77	31.54	-	48.42	20.35	20.79	17.35	47.56	53.04	19.76	42.57	17.38
60	2.6	18.65	33.71	33.89	26.36	17.47	14.60	35.74	33.12	28.18	40.04	24.76	32.18	33.73	32.06	22.55
80	2.3	24.19	44.07	37.73	47.21	34.04	-	44.65	41.06	31.72	43.09	24.63	24.76	29.40	29.07	36.83

* Station 47 relocated in April 1985

Table IV-8. Continued

Station	Average Station Depth	1984 Jul	Aug	Sep	Oct/Nov	Dec	1985 Jan/Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Dec
Sandy Mud																
04	28.3	72.70	10.59	15.98	10.85	74.26	94.37	90.25	93.02	92.45	16.21	92.37	91.15	89.47	88.21	89.54
22	3.9	90.20	85.40	82.23	53.58	75.80	-	84.79	88.90	91.04	95.83	48.37	83.81	87.39	79.40	42.56
25	7.0	80.69	66.55	57.04	67.99	79.40	-	77.93	68.90	62.35	97.29	72.35	80.12	79.46	70.70	56.79
27	5.8	50.09	59.99	58.38	44.85	56.27	-	55.87	60.87	60.33	96.43	68.27	63.59	90.94	65.15	67.81
28	3.6	31.60	28.47	37.83	36.01	31.93	-	49.91	41.34	37.32	59.82	36.87	46.50	96.05	55.12	48.71
29	5.7	49.78	56.79	59.54	83.87	63.74	-	67.85	79.51	55.78	42.83	32.75	63.33	75.70	67.47	67.11
36	2.5	51.21	68.73	59.42	75.21	70.94	-	78.39	79.59	69.78	64.85	72.95	82.15	72.26	72.96	93.04
54	12.9	84.63	76.68	92.62	83.84	71.50	76.20	90.05	78.62	65.14	95.55	75.24	83.45	98.42	78.00	90.16
57	13.5	66.56	38.47	86.62	76.98	73.94	37.17	46.59	55.60	36.88	80.54	83.32	43.93	49.33	24.02	86.63
58	31.4	91.05	90.33	90.32	92.69	17.84	82.46	95.52	96.89	95.42	91.53	96.82	90.91	94.23	93.66	91.19
61	5.4	65.17	60.61	62.37	54.52	58.22	-	70.22	88.32	99.06	95.45	55.82	70.85	61.83	42.44	72.82
65	3.1	77.45	75.77	74.21	76.11	71.59	-	67.66	85.90	68.21	85.91	-	-	-	75.12	83.54
68	5.9	79.32	86.62	75.43	71.14	81.57	-	88.72	84.74	84.88	95.19	94.86	86.48	90.85	86.05	84.73
72	2.3	64.41	52.76	36.66	49.56	38.75	58.75	66.74	67.20	68.61	92.48	66.35	62.37	46.45	60.23	59.28
73	2.7	93.17	92.74	80.87	79.87	54.45	74.39	87.58	93.72	93.53	66.93	93.15	70.15	68.78	88.96	75.28
Mud																
03	13.6	90.24	88.25	96.35	85.23	76.06	93.92	91.08	95.27	91.43	93.98	95.59	92.34	97.06	91.66	92.01
08	12.4	85.87	84.75	95.78	87.13	77.32	92.16	95.78	92.40	96.44	97.54	96.32	94.48	97.78	83.03	95.04
11	12.2	85.10	79.17	94.23	78.81	80.08	92.92	94.91	89.45	95.77	96.49	94.19	96.06	96.57	86.08	90.27
14	11.7	84.49	92.22	94.46	84.58	77.66	95.97	97.76	95.63	98.55	95.33	97.54	96.53	99.23	86.24	96.63
16	13.7	90.32	89.69	97.15	92.08	89.15	91.91	95.85	97.41	98.72	93.83	98.03	97.10	97.84	88.14	93.74
17	26.8	89.83	85.66	96.01	91.78	88.16	91.29	93.06	97.49	95.78	93.83	97.01	94.84	96.29	78.06	93.40
20	10.6	90.29	95.61	94.47	91.71	89.41	89.22	95.41	97.25	98.47	93.17	98.95	95.34	97.03	96.53	90.95
21	28.8	100.00	91.97	95.03	91.09	89.71	90.56	95.65	97.11	97.54	96.71	96.83	96.31	97.76	90.74	96.77
23	5.5	76.73	95.02	71.09	72.85	83.30	-	82.47	95.74	95.24	87.52	91.79	84.40	89.19	91.48	92.69
24	6.5	94.35	95.47	96.91	85.47	89.94	-	96.99	98.25	97.04	93.95	99.00	97.46	98.51	96.71	97.12

Table IV-8. Continued

Station	Average Station Depth	1984 Jul	Aug	Sep	Oct/Nov	Dec	1985 Jan/Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Dec
Mud (Cont'd)																
26	4.0	87.99	91.48	76.43	92.51	91.19	-	96.09	96.68	97.19	90.53	95.92	96.57	96.83	93.39	96.65
38	5.7	84.14	88.00	94.77	93.40	92.95	-	96.13	97.53	98.04	61.73	96.44	95.50	98.17	83.38	97.89
40	8.0	94.67	95.81	98.59	95.26	93.49	-	95.91	98.78	97.50	97.83	97.17	98.92	97.64	97.48	98.71
44	12.8	92.59	92.97	98.62	94.57	85.35	90.22	89.89	92.69	97.34	96.73	93.36	91.40	97.08	96.86	97.22
46	13.5	86.95	91.59	87.07	94.90	91.51	88.65	96.95	95.88	90.92	90.47	92.33	94.93	94.17	91.22	90.21
48	18.3	90.32	90.34	98.20	91.64	86.92	52.30	93.14	95.13	79.83	93.01	89.36	84.82	82.02	87.74	94.31
50	13.8	98.47	67.44	98.62	93.54	91.19	91.08	98.18	97.90	97.08	83.94	95.90	95.15	98.64	90.32	99.51
52	10.9	87.48	90.08	95.25	71.36	92.26	85.91	94.53	95.69	97.06	97.65	97.23	95.48	96.95	91.44	98.59
62	6.9	81.91	77.87	83.42	80.93	77.01	-	90.34	91.14	86.85	80.04	89.66	91.14	94.03	91.03	84.19
63	7.9	87.66	85.61	86.98	75.17	81.01	-	90.14	95.48	88.52	83.29	92.31	87.47	92.31	97.95	76.97
64	9.3	85.67	93.42	92.44	83.46	87.13	-	87.11	94.93	93.70	89.02	95.57	92.95	95.84	95.40	94.68
66	2.7	81.36	81.69	82.51	84.73	73.42	-	88.91	88.58	70.17	89.02	-	-	-	84.00	91.34
67	6.8	93.52	92.47	87.59	78.16	91.70	-	96.05	98.90	98.34	85.91	91.85	87.78	92.03	87.02	94.09
70	16.8	92.36	87.38	82.13	80.34	90.01	82.64	94.69	94.36	95.82	91.91	96.03	91.16	95.78	86.12	94.30
71	15.4	88.87	91.43	83.33	87.54	79.17	91.47	97.01	94.93	91.20	92.42	96.93	94.75	97.89	90.42	92.76
74	2.7	90.93	88.96	94.38	84.01	89.95	87.69	94.76	95.84	78.80	95.05	94.56	91.90	95.27	96.85	96.38
75	2.3	80.98	83.59	84.81	81.82	78.07	75.91	82.32	89.93	87.36	90.75	89.89	84.19	63.61	81.28	86.10
76	2.6	93.11	93.75	94.31	87.80	92.59	91.80	96.95	96.77	96.77	96.77	96.14	95.07	95.86	95.20	97.54
77	2.7	91.83	95.01	94.16	85.51	93.69	92.25	95.64	98.39	94.86	97.25	94.32	93.41	94.38	97.20	94.08
78	2.5	62.88	82.00	83.47	82.86	83.70	87.60	92.90	95.09	93.47	93.19	94.53	92.95	95.38	92.90	92.76
79	2.4	81.33	83.54	84.91	81.42	90.86	-	91.07	94.02	86.33	92.19	93.34	51.52	98.90	92.69	93.18

Table IV-8. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec	1987 Jan	Mar	Apr
Sand													
01	2.3	1.46	1.11	0.33	1.31	0.99	0.60	1.15	1.11	1.26	-	0.84	2.15
02	6.1	1.48	0.90	0.53	1.62	1.14	0.95	0.81	0.22	0.83	0.79	1.03	0.83
05	3.0	1.41	1.78	3.02	1.36	1.49	2.41	4.06	4.68	1.85	0.77	4.25	2.84
06	2.9	0.71	0.27	0.17	0.48	0.88	0.77	0.81	0.96	1.38	0.70	0.63	0.89
07	5.7	5.86	2.71	1.36	1.74	2.00	1.76	1.54	3.03	1.37	1.19	1.57	1.35
09	2.8	0.57	0.68	0.40	0.50	1.02	1.01	0.89	1.18	0.59	1.98	0.73	1.06
10	6.5	19.38	1.04	22.59	9.97	6.65	3.51	1.94	13.24	12.17	12.96	14.82	7.14
12	2.1	1.31	0.94	1.07	3.97	1.59	1.45	1.38	2.28	1.25	1.14	0.84	1.13
13	5.9	1.73	1.10	0.93	2.16	1.13	1.10	1.66	1.51	0.74	1.12	1.14	1.11
15	2.2	1.16	0.93	1.21	2.63	2.28	1.58	1.98	1.07	1.31	-	2.43	2.44
18	2.7	0.94	1.00	1.29	1.54	1.64	1.91	2.66	2.20	2.15	-	1.64	2.15
43	2.5	5.11	4.29	3.12	4.43	6.70	3.85	7.12	4.99	5.39	6.38	3.81	11.25
45	2.5	2.65	4.23	2.15	4.35	-	4.62	3.60	3.91	2.46	4.24	3.86	4.27
47*	2.3	0.08	3.45	7.50	3.13	5.60	6.25	7.03	7.63	4.91	4.37	6.51	4.68
49	2.2	17.51	6.28	2.19	4.12	2.45	3.95	3.86	3.83	3.47	3.76	3.42	1.97
51	2.5	1.15	1.58	1.85	1.67	1.38	2.20	3.34	2.57	4.00	2.84	2.82	2.19
53	2.7	0.98	1.30	1.04	0.73	7.24	1.53	1.43	2.55	1.60	1.55	1.12	1.35
55	2.8	0.06	1.33	1.16	1.36	0.71	1.75	1.68	1.95	1.31	1.63	1.75	1.18
56	2.7	2.58	0.79	2.36	1.67	1.23	1.24	1.37	1.24	0.94	-	0.98	1.06
59	2.7	0.07	1.47	0.79	0.71	0.85	1.27	0.98	1.22	0.56	-	0.83	0.84
Muddy Sand													
19	3.1	19.30	11.26	12.74	13.28	19.26	9.24	14.87	16.67	19.61	-	8.99	19.10
39	2.2	60.63	58.08	18.19	65.73	26.33	31.60	38.78	18.40	70.43	44.47	26.96	33.20
60	2.6	23.20	37.73	49.83	13.74	46.68	35.67	50.95	42.07	31.50	-	28.08	38.51
80	2.3	14.54	34.04	41.19	32.78	22.62	23.42	17.72	74.10	87.87	-	18.17	77.68

Table IV-8. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec	1987 Jan	Mar	Apr
Sandy Mud													
04	28.3	90.30	95.41	93.16	95.34	25.07	69.54	82.10	95.01	90.13	-	87.83	92.84
22	3.9	83.82	82.53	86.78	88.39	88.64	87.61	88.73	68.86	79.49	-	85.26	85.74
25	7.0	59.49	85.76	85.51	-	78.60	77.49	79.00	78.95	82.51	-	87.58	79.17
27	5.8	-	68.13	60.56	64.49	59.96	78.37	63.71	68.25	66.60	-	62.59	65.33
28	3.6	-	41.58	55.85	61.71	44.07	43.05	54.29	56.39	50.42	-	48.06	54.46
29	5.7	-	74.17	92.56	83.71	75.09	68.75	78.61	57.98	65.39	-	73.87	63.77
36	2.5	96.98	52.73	80.90	71.10	81.41	72.61	71.95	60.08	41.15	-	78.31	51.51
54	12.9	93.51	77.12	80.66	88.41	87.14	83.85	84.35	85.48	82.81	88.94	86.86	79.52
57	13.5	89.34	91.53	89.88	47.57	40.07	78.94	88.51	69.06	74.43	83.80	89.32	91.40
58	31.4	87.49	96.90	92.47	96.30	91.41	94.67	92.14	31.52	92.04	-	92.82	24.89
61	5.4	78.28	78.44	80.64	83.81	82.33	66.57	77.84	69.43	94.91	-	72.48	68.34
65	3.1	-	79.90	76.06	84.11	82.41	77.35	69.64	65.56	86.06	-	76.26	70.21
68	5.9	17.43	84.83	88.48	-	89.20	88.00	81.72	90.48	78.73	-	82.93	79.42
72	2.3	56.12	70.96	63.46	56.87	46.56	69.03	79.12	72.51	56.37	64.74	61.47	70.49
73	2.7	80.71	76.82	59.33	89.12	92.91	91.94	69.93	71.42	80.89	79.76	83.18	90.56
Mud													
03	13.6	90.26	95.80	95.47	95.44	95.20	94.87	94.50	94.58	91.40	91.14	87.71	93.29
08	12.4	88.75	94.95	97.00	94.75	83.58	92.51	91.66	91.29	93.44	91.37	85.23	89.63
11	12.2	95.21	93.63	94.28	96.08	94.52	96.52	95.74	87.70	91.44	93.11	88.41	91.68
14	11.7	94.65	93.89	96.77	92.01	98.08	96.26	91.94	90.91	91.86	92.93	91.09	90.46
16	13.7	93.31	94.94	98.39	97.53	95.01	97.75	95.62	95.46	99.17	96.75	92.83	94.76
17	26.8	94.57	94.70	97.51	94.35	92.89	91.50	97.78	95.62	90.79	93.57	90.88	91.87
20	10.6	92.22	96.75	99.01	99.03	95.77	95.69	94.06	94.12	92.64	-	91.55	95.36
21	28.8	98.24	96.06	98.04	98.77	95.46	96.59	94.81	91.80	93.11	-	89.34	93.21
23	5.5	91.97	94.44	96.26	93.56	95.01	95.83	90.81	89.02	72.31	-	91.76	89.20
24	6.5	97.97	93.84	97.54	97.03	95.21	95.92	97.84	95.13	95.19	-	95.52	94.71

Table IV-8. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec	1987 Jan	Mar	Apr
Mud (Cont'd)													
26	4.0	33.07	94.69	95.08	95.75	97.01	96.17	96.09	96.70	97.86	-	95.13	94.70
38	5.7	97.96	98.85	98.79	98.40	98.15	97.52	92.74	96.76	96.61	-	97.17	98.35
40	8.0	84.65	99.14	99.40	99.31	98.77	98.61	98.77	98.85	97.37	90.52	97.96	96.91
44	12.8	89.23	92.42	96.70	94.52	93.07	92.65	94.57	91.40	89.48	93.10	90.35	88.05
46	13.5	97.85	94.26	98.21	98.65	97.19	96.34	97.50	92.84	92.00	92.72	91.35	93.95
48	18.3	84.47	92.45	95.33	92.53	87.32	95.70	91.88	92.89	94.27	90.77	85.84	81.71
50	13.8	95.60	96.24	83.46	91.95	96.89	95.46	-	96.34	94.88	94.08	95.30	90.28
52	10.9	90.29	95.61	94.09	98.46	94.78	95.40	93.96	91.05	94.60	92.24	93.57	94.50
62	6.9	75.59	82.02	92.56	87.00	90.70	87.53	91.86	93.31	87.51	-	93.99	92.93
63	7.9	95.89	89.17	93.33	90.81	91.44	92.79	87.45	90.15	88.79	-	92.39	86.66
64	9.3	95.89	94.97	95.61	94.37	94.87	94.04	92.87	93.42	95.83	-	89.16	84.45
66	2.7	-	88.84	89.08	90.90	92.35	83.49	82.95	82.72	92.52	-	92.56	82.62
67	6.8	97.34	96.34	97.46	-	95.45	95.46	86.07	95.53	98.94	-	91.17	94.80
70	16.8	90.29	95.80	93.52	92.09	93.87	94.80	95.95	95.71	88.78	-	92.40	95.82
71	15.4	96.32	90.90	97.12	94.11	95.54	92.67	88.43	94.99	91.97	94.13	85.19	89.88
74	2.7	93.11	95.58	96.25	94.56	92.85	94.66	94.50	96.71	93.01	91.71	91.63	92.72
75	2.3	84.32	89.19	84.54	85.84	90.49	86.17	86.70	89.46	85.59	85.79	86.47	83.18
76	2.6	93.90	95.45	95.41	96.38	97.37	93.12	95.95	94.18	94.90	94.45	94.79	95.71
77	2.7	97.05	96.34	95.63	94.94	95.27	94.99	94.95	95.43	93.91	94.26	95.03	95.29
78	2.5	95.94	95.45	96.71	93.97	88.36	94.39	91.95	91.09	81.94	-	88.96	94.73
79	2.4	92.05	94.90	94.70	96.17	93.29	94.10	94.63	95.30	93.77	-	88.96	94.73

Table IV-8. Continued

Station	Average Station Depth	1987 May	1987 Jun	1987 Jul
Sand				
01	2.3	0.84	1.58	0.89
02	6.1	1.06	1.10	0.77
05	3.0	2.61	2.58	3.67
06	2.9	0.82	1.15	0.83
07	5.7	1.48	1.60	2.60
09	2.8	0.61	0.83	1.03
10	6.5	0.93	10.54	9.88
12	2.1	1.29	1.26	1.14
13	5.9	1.07	1.48	1.71
15	2.2	1.57	2.54	1.78
18	2.7	1.39	1.95	2.28
43	2.5	5.75	6.93	2.52
45	2.5	3.55	3.61	2.56
47*	2.3	4.83	4.83	6.51
49	2.2	4.56	2.74	2.02
51	2.5	2.25	2.23	2.13
53	2.7	0.82	1.53	1.38
55	2.8	1.37	1.48	1.95
56	2.7	1.28	1.22	1.09
59	2.7	1.02	0.81	1.42
Muddy Sand				
19	3.1	12.45	15.39	10.91
39	2.2	29.86	58.37	30.92
60	2.6	23.82	12.89	51.00
80	2.3	16.32	42.60	10.13

Table IV-8. Continued

Station	Average Station Depth	1987 May	Jun	Jul
Sandy Mud				
04	28.3	89.67	17.36	95.51
22	3.9	77.72	32.88	88.18
25	7.0	78.43	84.84	83.38
27	5.8	63.16	59.99	71.43
28	3.6	40.49	47.54	45.15
29	5.7	60.64	69.88	63.30
36	2.5	52.26	89.95	51.14
54	12.9	77.50	84.56	91.58
57	13.5	49.13	90.62	80.31
58	31.4	90.96	13.48	94.75
61	5.4	76.61	83.17	96.26
65	3.1	61.84	72.18	78.14
68	5.9	89.57	89.71	78.42
72	2.3	71.94	66.59	71.55
73	2.7	95.48	89.94	95.01
Mud				
03	13.6	93.10	93.81	89.18
08	12.4	90.96	91.18	90.04
11	12.2	93.48	96.89	94.13
14	11.7	90.71	93.51	92.40
16	13.7	92.94	97.66	95.34
17	26.8	95.89	97.58	95.61
20	10.6	95.14	96.73	98.16
21	28.8	95.97	96.35	94.71
23	5.5	89.96	89.22	93.13
24	6.5	96.84	95.71	96.71

Table IV-8. Continued

Station	Average Station Depth	1987 May	1987 Jun	1987 Jul
Mud (Cont'd)				
26	4.0	96.29	97.25	97.98
38	5.7	94.50	98.63	97.31
40	8.0	96.91	95.04	98.22
44	12.8	92.74	90.19	89.54
46	13.5	91.72	96.01	91.50
48	18.3	84.56	96.21	95.07
50	10.9	90.85	89.62	95.95
52	12.9	94.24	86.26	93.61
62	6.9	77.74	85.79	86.90
63	7.9	90.86	93.49	90.38
64	9.3	94.58	95.18	89.87
66	2.7	90.34	75.58	92.59
67	6.8	93.39	90.54	88.97
70	16.8	92.43	92.54	88.84
71	15.4	91.60	88.55	96.43
74	2.7	96.00	93.60	96.58
75	2.3	99.76	85.62	88.41
76	2.6	92.60	95.40	96.65
77	2.7	94.37	94.00	92.50
78	2.5	85.91	94.50	94.33
79	2.4	92.93	93.45	94.66

Table IV-9. Percentage carbon content of sediments from long-term benthic monitoring stations in Chesapeake Bay, July 1984 to May 1987. Dashes indicate missing data.

Station	Average Station Depth	1984 Jul	1984 Aug	1984 Sep	1984 Oct/Nov	1984 Dec	1985 Jan/Feb	1985 Mar	1985 Apr	1985 May	1985 Jun	1985 Jul	1985 Aug	1985 Sep	1985 Nov	1985 Dec
Sand																
01	2.3	0.82	0.21	0.48	1.05	1.08	0.66	0.26	0.25	0.21	0.59	0.40	0.12	0.21	0.39	0.30
02	6.1	0.68	0.31	0.71	0.63	1.03	0.73	0.18	0.12	0.64	0.33	0.83	0.28	0.24	0.25	0.17
05	3.0	0.61	0.34	0.95	1.55	1.13	0.64	0.32	0.17	0.53	0.35	0.66	0.13	0.18	0.28	0.23
06	2.9	0.67	0.34	0.59	1.44	1.46	0.43	0.48	0.22	0.34	0.42	0.17	0.14	0.35	0.30	0.28
07	5.7	0.98	0.53	0.87	0.72	1.48	0.46	1.04	0.21	0.49	0.49	0.26	0.16	0.23	0.48	0.27
09	2.8	1.04	0.73	0.88	1.07	1.27	1.17	0.96	0.37	0.28	0.45	0.13	0.10	0.32	0.28	0.16
10	6.5	1.65	0.87	1.30	1.21	2.24	0.80	0.41	0.72	0.42	0.49	0.52	0.57	1.06	0.72	1.10
12	2.1	0.71	0.47	1.18	0.86	2.16	1.05	0.29	0.26	0.17	0.75	0.41	0.24	0.35	0.51	0.34
13	5.9	2.64	0.73	0.81	0.64	1.68	1.07	0.57	0.13	0.45	0.43	0.28	0.17	0.26	0.34	0.29
15	2.2	1.47	0.18	0.83	0.98	1.55	1.07	0.23	0.30	0.27	0.24	0.24	0.46	0.29	0.47	0.25
18	2.7	1.10	0.47	1.09	1.01	1.41	0.74	0.62	0.19	0.25	0.69	0.20	0.25	0.41	0.28	0.30
43	2.5	1.22	0.43	1.02	0.78	1.75	0.72	0.54	0.37	0.85	0.56	0.40	0.37	0.38	0.46	0.50
45	2.5	0.93	0.33	0.83	1.26	2.45	0.85	1.52	0.31	0.39	0.65	0.32	0.28	0.47	0.53	0.29
47*	2.3	1.23	0.92	1.43	1.75	1.54	1.26	1.01	0.33	0.37	0.79	0.29	0.21	0.42	0.40	0.69
49	2.2	1.30	0.19	1.10	1.22	1.05	1.39	0.53	0.20	0.23	0.76	0.28	0.12	0.50	0.39	0.39
51	2.5	0.59	0.36	0.96	0.92	0.64	1.25	0.29	0.33	0.32	0.47	0.32	0.20	0.45	0.52	0.38
53	2.7	0.45	0.54	1.30	1.18	0.70	2.04	0.27	0.30	0.44	0.65	0.55	0.18	0.27	0.52	0.28
55	2.8	0.63	0.29	1.06	1.83	0.91	2.77	0.88	0.19	0.29	0.46	0.61	0.32	0.36	0.52	0.35
56	2.7	1.02	0.77	1.48	0.85	1.15	2.06	0.96	0.14	0.27	0.94	0.24	0.19	0.24	0.36	0.34
59	2.7	1.96	0.17	1.38	1.18	0.90	2.23	0.90	0.23	0.21	0.72	0.25	0.22	0.24	0.28	0.30
Muddy Sand																
19	3.1	1.16	0.45	1.16	1.15	1.61	1.18	1.47	0.46	0.56	0.81	0.69	0.35	0.69	0.66	0.45
39	2.2	1.01	2.49	1.49	4.12	2.35	-	2.19	0.39	0.76	1.20	1.88	1.20	0.94	1.78	0.87
60	2.6	0.96	0.49	0.87	1.28	0.83	4.28	0.97	0.69	0.80	0.90	0.73	0.53	0.69	0.62	0.67
80	2.3	2.01	1.81	2.10	2.76	2.53	-	2.92	2.04	2.24	1.52	2.11	1.12	1.39	1.56	1.77

* Station 47 relocated in April 1985

Table IV-9. Continued

Station	Average Station Depth	1984 Jul	Aug	Sep	Oct/Nov	Dec	1985 Jan/Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Dec
Sandy Mud																
04	28.3	3.90	0.65	1.16	1.15	3.83	3.37	3.41	3.51	2.49	1.28	3.12	2.90	2.64	2.51	3.19
22	3.9	3.82	3.41	2.84	3.72	4.33	-	3.40	3.17	2.96	3.08	2.69	3.83	3.29	3.11	3.39
25	7.0	2.82	2.42	2.18	3.43	3.93	-	2.32	2.21	1.81	3.02	2.54	2.04	2.26	2.38	2.72
27	5.8	14.91	12.68	8.20	8.68	11.50	-	13.54	9.63	9.47	2.44	8.26	8.02	9.33	8.03	9.47
28	3.6	14.73	15.83	12.41	9.70	11.71	-	15.46	16.72	11.51	15.15	15.13	12.41	13.50	4.40	12.62
29	5.7	3.16	2.68	2.39	3.99	3.04	-	2.60	2.89	2.39	3.22	3.94	2.42	2.68	2.33	2.49
36	2.5	3.12	3.05	3.05	4.11	3.68	-	2.70	2.58	2.24	2.96	3.25	2.86	2.67	2.02	1.90
54	12.9	3.10	2.99	3.18	3.47	3.32	4.68	3.04	2.65	2.32	2.80	2.89	2.75	3.00	2.42	3.35
57	13.5	3.16	2.01	4.12	4.28	4.48	4.75	3.43	1.94	1.58	4.22	3.44	2.15	3.28	2.10	3.98
58	31.4	3.99	3.43	3.30	3.80	1.66	4.21	0.81	2.58	2.73	1.78	2.51	2.61	2.93	3.17	2.77
61	5.4	2.13	1.59	1.90	2.40	2.25	-	2.68	2.13	1.95	2.40	1.89	1.83	2.07	1.23	2.46
Mud																
03	13.6	4.86	3.10	3.92	3.61	4.51	3.55	3.94	3.28	3.35	3.54	3.15	3.37	3.39	3.66	5.07
08	12.4	4.82	3.51	3.34	4.13	4.99	3.84	4.11	3.47	3.66	4.13	3.74	-	3.26	3.31	3.17
11	12.2	4.06	3.20	3.88	4.48	5.51	4.40	2.98	3.51	3.33	4.21	3.63	3.28	3.17	3.47	2.40
14	11.7	4.28	3.33	3.73	4.02	4.66	4.09	3.86	3.72	3.57	3.65	3.79	3.29	3.62	3.58	3.70
16	13.7	4.25	3.41	4.40	4.53	4.70	4.63	3.58	4.29	3.45	4.23	3.70	3.39	3.35	3.63	3.35
17	26.8	3.73	3.27	3.44	3.93	4.72	3.31	3.69	3.67	3.07	3.72	3.66	3.03	3.15	2.49	4.22
20	10.6	4.09	3.31	3.59	4.81	5.09	5.53	3.91	3.59	3.41	4.19	3.80	3.41	3.53	3.61	3.92
21	28.8	3.37	3.73	4.33	5.01	5.27	4.35	4.46	3.47	3.83	4.15	3.89	3.33	2.95	3.60	4.40
23	5.5	4.96	2.53	4.87	5.36	6.10	-	4.89	4.44	4.26	4.93	4.66	3.76	3.43	4.43	2.41
24	6.5	4.78	3.68	4.03	4.49	5.18	-	3.87	3.95	3.71	4.00	5.14	3.87	3.90	4.11	4.20

Table IV-9. Continued

Station	Average Station Depth	1984 Jul	Aug	Sep	Oct/Nov	Dec	1985 Jan/Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Dec
Mud (Cont'd)																
26	4.0	5.06	4.44	4.56	5.62	6.00	-	4.59	4.42	4.82	4.58	4.85	4.14	4.60	4.57	4.46
38	5.7	2.98	3.18	3.26	3.41	4.60	-	3.36	2.97	2.90	2.96	3.26	2.87	3.18	2.92	2.80
40	8.0	3.14	3.02	3.27	3.81	4.31	-	3.41	3.12	3.84	3.27	3.04	2.93	2.79	3.96	2.04
44	12.8	3.02	2.81	3.20	3.49	4.32	3.18	3.65	2.65	2.56	2.52	2.75	2.59	2.58	2.60	2.58
46	13.5	2.84	2.76	2.59	3.34	2.98	3.29	3.48	2.89	2.52	2.77	2.53	2.72	3.09	2.55	2.32
48	18.3	2.70	2.41	3.32	3.82	2.40	3.50	3.52	2.69	2.62	3.16	2.45	2.26	1.93	2.15	2.69
50	13.8	3.21	2.73	2.99	2.98	3.12	3.13	2.87	2.75	2.64	3.01	2.50	2.50	2.63	2.46	2.57
52	10.9	3.72	3.35	3.70	3.61	3.94	4.12	3.97	3.52	3.33	3.72	3.73	3.55	3.43	3.66	3.59
62	6.9	4.57	6.02	3.52	4.18	4.23	-	5.67	4.76	3.99	5.29	5.66	4.61	4.08	4.58	5.51
63	7.9	1.97	1.70	1.89	2.75	2.76	-	2.68	1.75	1.79	2.24	2.15	1.58	1.77	1.89	1.77
64	9.3	2.33	2.66	3.10	3.40	3.34	-	2.77	2.34	2.46	2.66	3.66	2.45	2.78	2.45	2.64
65	3.1	2.52	3.16	2.66	3.83	3.26	-	4.00	3.02	2.52	-	-	-	-	2.83	2.98
66	2.7	4.93	5.96	5.87	6.05	6.22	-	5.74	5.55	4.92	-	-	-	-	5.02	5.56
67	6.8	3.27	3.36	3.88	4.14	4.00	-	3.62	3.91	3.42	3.82	3.95	2.94	3.63	3.24	3.59
68	5.9	3.06	3.37	2.99	4.02	3.66	-	2.97	3.12	3.05	4.37	3.79	2.53	2.82	3.28	3.13
70	16.8	3.11	3.60	3.94	4.81	3.88	6.15	3.75	3.97	3.63	4.09	3.71	3.38	3.88	3.34	3.56
71	15.4	3.61	3.46	3.80	4.66	4.61	3.56	3.74	3.27	3.30	3.58	3.93	3.38	3.24	3.42	3.34
72	2.3	1.97	1.81	2.06	2.36	2.76	2.48	2.56	2.12	2.18	2.04	2.15	1.61	1.86	2.29	1.97
73	2.7	3.09	2.83	2.60	2.69	2.61	2.88	2.44	2.49	2.48	2.47	2.19	1.56	2.42	2.63	2.09
74	2.7	3.14	3.08	3.28	3.22	3.44	3.57	2.90	2.76	3.82	3.55	2.80	3.34	3.11	2.65	3.15
75	2.3	2.70	3.08	3.09	3.62	3.56	3.95	3.21	2.84	2.89	3.13	3.07	2.65	2.75	2.91	2.11
76	2.6	3.37	4.11	3.41	4.04	4.80	3.95	3.60	3.23	3.54	3.38	3.09	2.73	3.21	3.17	3.48
77	2.7	3.47	3.83	4.02	4.30	4.99	3.98	4.07	3.77	3.30	3.34	3.27	3.62	3.54	3.47	3.38
78	2.5	4.38	3.63	4.32	4.86	4.74	4.67	6.56	3.97	3.78	4.07	3.56	3.99	3.56	3.94	4.17
79	2.4	4.38	3.89	3.93	4.68	4.60	-	4.18	3.88	3.84	3.88	3.63	1.77	3.62	4.07	4.13

Table IV-9. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec	1987 Jan	Mar	Apr	May
Sand														
01	2.3	0.22	0.16	0.24	0.30	0.27	0.42	0.37	0.43	0.10	0.13	0.06	0.16	0.09
02	6.1	0.09	0.28	0.30	0.37	0.18	0.21	0.13	0.24	0.16	0.15	0.04	0.07	0.06
05	3.0	0.29	0.28	0.18	0.36	0.32	0.19	0.20	0.81	0.32	-	0.17	0.13	0.13
06	2.9	0.21	0.28	0.15	0.30	0.20	0.19	0.15	0.27	0.23	0.15	0.05	0.06	0.07
07	5.7	0.32	0.85	0.22	0.36	0.22	0.20	0.30	0.29	0.29	-	0.11	0.13	0.10
09	2.8	0.33	0.25	0.20	0.11	-	0.19	0.42	0.32	4.60	3.43	0.04	0.06	0.03
10	6.5	2.70	0.39	1.04	1.53	0.56	-	0.17	0.80	1.61	0.87	0.80	0.44	0.03
12	2.1	0.38	0.36	0.44	0.59	0.34	0.37	0.38	0.26	0.46	0.25	0.09	0.08	0.09
13	5.9	0.42	0.31	0.27	0.27	0.29	0.29	0.31	0.27	0.30	0.16	0.08	0.07	0.08
15	2.2	0.37	0.29	0.25	0.52	0.32	0.42	0.45	0.36	0.27	0.28	0.12	0.11	0.12
18	2.7	0.33	0.64	0.33	0.27	0.16	-	0.36	0.41	0.40	-	0.09	0.11	0.06
43	2.5	0.20	0.53	0.22	0.56	0.41	0.36	0.36	0.28	0.26	0.37	0.13	0.17	0.18
45	2.5	0.20	0.27	0.50	0.31	-	0.49	0.35	1.2	0.27	0.38	0.18	0.09	0.08
47*	2.3	0.41	0.44	0.69	0.39	-	0.39	0.41	0.63	0.38	2.65	0.21	0.18	0.21
49	2.2	0.68	0.33	0.43	0.23	0.56	0.33	0.33	0.54	0.54	0.26	0.18	0.08	0.19
51	2.5	0.51	0.41	0.65	0.29	0.42	0.39	0.41	0.39	0.46	0.30	0.22	0.20	0.17
53	2.7	0.17	0.36	0.28	0.26	0.31	0.24	0.49	0.40	0.26	0.08	0.07	0.09	0.10
55	2.8	0.33	0.23	0.28	0.24	0.27	0.28	0.19	0.33	0.31	0.18	0.08	0.10	0.15
56	2.7	0.20	0.21	0.26	0.11	-	0.34	0.93	0.51	0.27	0.07	0.06	0.08	0.06
59	2.7	0.23	0.29	0.32	0.24	0.16	0.20	0.13	0.40	0.28	-	0.05	0.03	0.07
Muddy Sand														
19	3.1	0.58	0.56	0.65	0.45	0.67	-	0.46	0.94	0.52	-	0.29	0.47	0.37
39	2.2	1.22	1.51	1.25	1.77	1.27	0.91	1.17	0.99	2.23	1.82	0.29	0.96	0.81
60	2.6	0.50	0.87	0.93	0.51	1.38	0.74	0.85	0.77	0.39	-	0.35	0.64	0.45
80	2.3	1.36	2.18	1.77	1.16	2.11	1.06	2.49	3.01	1.48	-	0.80	2.80	2.18

Table IV-9. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec	1987 Jan	Mar	Apr	May
Sandy Mud														
04	28.3	2.28	2.72	2.85	3.35	1.21	2.77	2.64	3.59	3.38	-	2.72	2.58	3.64
22	3.9	3.79	2.48	5.14	3.39	3.69	3.59	3.56	4.10	3.20	-	3.14	3.39	2.85
25	7.0	2.16	2.70	3.14	-	2.74	2.34	2.48	2.50	2.59	-	2.43	2.21	2.29
27	5.8	-	9.28	6.31	8.74	11.11	6.40	8.41	7.48	6.48	-	7.54	9.18	10.40
28	3.6	-	9.25	8.19	3.93	-	-	18.18	9.95	15.81	-	14.20	10.60	12.90
29	5.7	-	2.47	3.57	3.05	2.64	2.41	2.63	2.85	9.78	-	3.14	2.26	2.16
36	2.5	1.57	2.13	2.38	3.12	2.53	1.91	2.86	2.46	2.75	-	2.63	2.40	2.95
54	12.9	3.00	2.51	2.37	3.35	2.77	2.53	3.12	2.83	3.06	2.94	2.84	2.83	2.91
57	13.5	2.05	2.88	3.65	2.87	1.82	3.57	3.80	3.13	3.56	3.30	3.17	3.54	1.83
58	31.4	2.88	4.27	2.70	2.97	3.21	3.51	3.09	1.46	3.28	-	3.73	0.98	2.78
61	5.4	2.55	2.10	2.17	2.39	2.27	1.94	2.46	1.91	1.52	-	2.12	1.81	2.07
65	3.1	-	2.43	2.51	3.12	2.88	2.74	2.52	2.58	3.00	-	2.30	2.15	5.21
68	5.9	3.31	3.21	3.26	-	3.21	-	2.70	3.14	3.21	-	2.81	2.64	2.74
72	2.3	1.93	2.08	1.51	1.65	1.75	2.07	3.15	2.29	1.54	1.87	1.85	1.75	2.07
73	2.7	2.20	1.70	2.06	2.68	2.87	2.59	2.28	2.06	3.47	2.26	2.40	1.94	2.67
Mud														
03	13.6	3.33	3.23	3.42	3.61	3.69	3.59	3.49	3.46	3.36	3.56	2.99	3.07	3.08
08	12.4	3.74	3.31	3.39	3.31	3.72	3.17	3.58	3.45	3.96	3.59	3.58	3.46	3.78
11	12.2	3.67	4.02	3.91	3.53	3.56	3.41	3.76	3.96	3.76	3.73	3.42	3.56	3.69
14	11.7	2.88	2.68	3.98	4.94	3.79	3.36	3.66	3.79	3.64	3.46	3.32	3.70	3.51
16	13.7	3.90	3.75	3.26	3.75	3.74	3.28	3.33	3.23	3.41	3.41	3.25	3.45	3.41
17	26.8	3.10	2.75	3.59	3.13	3.58	-	3.82	3.26	1.89	3.37	3.18	3.09	3.91
20	10.6	3.69	3.01	3.57	3.77	3.72	3.71	3.26	3.52	3.62	-	3.37	3.47	3.68
21	28.8	3.79	3.11	3.24	3.61	3.52	3.64	3.31	3.76	3.29	-	3.44	3.23	3.30
23	5.5	5.58	4.25	5.04	4.74	4.84	3.05	4.95	3.87	4.93	-	3.83	3.49	4.56
24	6.5	4.55	3.37	4.74	4.12	-	4.00	5.17	4.09	3.99	-	3.72	3.64	3.74

Table IV-9. Continued

Station	Average Station Depth	1986 Jan/Feb	Mar	Apr	May	Jun	Aug	Sep	Nov	Dec	1987 Jan	Mar	Apr	May
Mud (Cont'd)														
26	4.0	4.05	4.50	4.30	4.44	4.38	4.35	3.67	6.95	0.75	-	3.92	4.19	4.30
38	5.7	3.00	2.76	2.81	3.87	2.76	2.87	2.75	2.61	4.38	-	2.75	2.60	2.68
40	8.0	3.29	2.40	1.79	2.56	2.59	2.46	2.40	2.40	2.44	2.34	2.45	2.60	2.41
44	12.8	2.44	2.85	2.31	2.42	-	2.26	2.53	2.49	2.37	2.45	2.26	2.22	2.31
46	13.5	2.50	2.17	2.29	2.71	-	2.53	2.40	2.50	2.24	2.31	2.37	2.16	2.36
48	18.3	2.56	3.22	2.32	2.56	2.28	2.64	2.49	2.56	2.47	2.33	2.08	2.09	2.89
50	13.8	2.53	2.86	2.85	2.63	2.67	-	-	2.84	2.65	2.47	2.40	2.44	2.12
52	10.9	3.36	3.94	3.80	3.86	3.99	3.24	3.53	3.39	3.73	3.52	3.51	3.59	3.45
62	6.9	4.80	6.10	5.35	-	5.14	-	3.74	5.17	6.83	-	3.51	3.54	5.21
63	7.9	1.80	1.55	1.80	1.78	2.06	1.66	1.76	1.80	1.97	-	1.56	1.58	1.56
64	9.3	2.46	2.77	2.76	2.60	2.55	2.49	2.56	2.33	2.51	-	2.06	2.15	2.20
66	2.7	-	4.65	5.45	5.46	5.54	5.66	5.77	5.34	5.59	-	5.14	5.30	2.20
67	6.8	3.38	2.90	3.53	-	-	3.38	2.81	3.13	3.22	-	3.08	3.12	3.05
70	16.8	3.40	3.00	3.86	3.59	4.02	3.35	3.46	3.35	3.26	-	3.14	3.12	3.58
71	15.4	3.50	2.90	3.25	3.27	3.50	3.19	3.22	3.16	3.73	3.28	3.06	3.12	3.40
74	2.7	2.81	2.95	2.92	2.86	2.98	2.93	2.72	3.03	2.58	2.65	2.40	2.50	2.20
75	2.3	2.45	3.00	2.93	3.04	2.96	2.87	2.89	2.70	2.71	2.85	2.76	2.66	2.59
76	2.6	3.04	2.99	3.20	3.16	-	3.31	4.64	2.64	3.34	0.11	2.67	2.78	2.97
77	2.7	2.86	3.09	3.21	3.53	3.97	-	5.25	3.22	3.28	-	3.21	2.96	3.39
78	2.5	4.00	3.58	3.32	3.86	-	3.06	3.98	3.55	3.64	-	3.25	3.91	3.51
79	2.4	3.60	3.37	4.15	4.27	4.18	3.54	3.62	4.30	4.15	-	3.86	3.69	3.75

Table IV-10. Eigenvalues, percent variance explained, and cumulative percent variance explained for principal components analysis conducted on water quality and sediment data, July 1984 through August 1987

Principal Component (PC)	Eigenvalue	Percent Variance Explained	Cumulative Percent Variance Explained
PC 1	2.395	34.2	34.2
PC 2	1.735	24.8	59.0
PC 3	1.611	23.0	82.0
PC 4	0.623	8.9	90.9
PC 5	0.277	4.0	94.9
PC 6	0.209	3.0	97.9
PC 7	0.150	2.2	100.0

Table IV-11. Eigenvector coefficients (V), regression coefficients (R^2) and Pearsons's correlation coefficients (r) for measured physical/chemical variables with principal component scores

		Principal Component							
		1	2	3	4	5	6	7	Components with high loading
Salinity	V	0.26	-0.42	-0.48	-0.40	-0.05	0.07	0.59	PC 2 & PC 3
	R^2	0.00	0.52	0.33	0.03	0.11	0.05	0.05	
	r	0.01	0.71	-0.58	0.17	0.33	0.07	0.07	
Temperature	V	0.38	0.55	-0.46	0.21	0.63	0.14	0.18	PC 3 & PC 2
	R^2	0.16	0.31	0.37	0.10	NS	0.05	0.05	
	r	0.40	-0.55	-0.61	-0.32	NS	NS	0.23	
Dissolved Oxygen Concentration	V	-0.47	0.10	0.48	0.10	0.03	0.09	0.72	PC 1 & PC 2
	R^2	0.52	0.02	0.37	0.00	NS	NS	0.08	
	r	-0.72	0.13	0.61	0.08	NS	NS	0.28	
Hydrogen Ion Concentration (pH)	V	0.29	-0.46	0.02	0.82	0.07	0.09	0.11	PC 4 & PC 2
	R^2	0.20	0.37	NS	0.42	NS	NS	NS	
	r	0.45	-0.61	NS	0.65	NS	NS	NS	
Depth	V	0.37	0.54	-0.07	0.19	-0.69	0.10	0.21	PC 2 & PC 1
	R^2	0.33	0.50	0.01	0.02	0.13	0.3	0.06	
	r	0.57	0.71	-0.10	0.15	-0.36	0.05	0.08	
Silt-Clay Content (Arc-Sine Transformed)	V	0.52	0.12	0.35	-0.10	0.26	-0.70	0.18	PC 1 & PC 3
	R^2	0.65	0.02	0.19	0.06	0.02	0.09	0.06	
	r	0.81	0.16	0.44	-0.08	0.13	-0.32	0.08	
Carbon Content (Arc-Sine Transformed)	V	0.47	0.02	0.45	-0.25	0.23	0.68	-0.06	PC 1 & PC 3
	R^2	0.52	NS	0.32	0.04	0.01	0.09	NS	
	r	0.72	NS	0.57	-0.20	0.12	0.31	NS	

NS = Not significant

Table IV-12. List of references used to collect historic data for the upper Bay region in the vicinity of Stations 26-29 of the current study

Reference	Data Used Biological	Salinity
Cronin and Schubel, 1974		X
Cronin and Seitz, 1975		X
Ecological Analysts, Inc., 1974	X	
Johns Hopkins University, 1973	X	
Jordan et al., 1980	X	X
Klein and Barbour, 1981	X	
Pfitzenmeyer, 1973	X	
Reinharz and O'Connell, 1981	X	
Taylor and Cronin, 1974		X

Table IV-13. List of references used to collect historic data for the Baltimore Harbor area in the vicinity of Stations 22 and 23

Reference	Data Used Biological	Salinity
Cronin and Schubel, 1974		X
Dames and Moore, 1976		X
Heck and Horwitz, 1981	X	
Johns Hopkins University, 1972	X	
LM&S Engineers, 1980		X
Normandeau, Inc. Assoc., 1980		X
Pfitzenmyer, 1971	X	X
Dovel et al., 1975		X
Reinharz, 1981	X	
Sheppard T. Powell Assoc., 1971		X
U.S. Dept. of Transportation and Maryland Dept. of Transporation, 1979	X	

Table IV-14. List of references used to collect historic data for the Patuxent River in the vicinity of Stations 70-80 of the current study

Reference	Data Used	
	Biological	Salinity
ANSP, 1977	X	X
Holland and Hiegel, 1981	X	X
Holland and Shaughnessy (unpublished data), 1983	X	X

Table IV-15. Annual mean production (ash-free dry weight g/m^2/yr) of selected species by station for the period July 1985-June 1986. Dashes indicate missing values.

Species	01	03	05	06	08	15	17	18	19	23	26	29	36	39	40
Eteone heteropoda	0.0090	0.0257	0.0052	0.0019	0.0433	0.0116	0.0187	0.0014	0.0139	0.0184	0.001	-	-	-	-
Glycinde solitaria	0.0204	0.2100	0.0659	0.0061	0.2123	0.1011	0.0185	0.0420	0.1220	-	-	-	-	-	-
Heteromastus filiformis	0.2026	0.0305	0.7605	0.2739	0.0092	0.6906	-	0.9639	8.9617	1.6084	0.013	-	-	0.002	-
Nereis succinea	0.0264	4.1762	0.3348	0.5717	2.9839	1.6672	0.0058	0.7391	16.9260	12.5969	0.102	-	-	0.379	0.114
Paraprionospio pinnata	0.0093	1.3750	0.1601	0.0414	1.8182	-	0.2412	0.0821	-	0.0040	-	-	-	-	0.000
Marenzelleria viridis	1.1196	0.0150	0.6244	2.3390	0.0823	3.1305	0.5782	0.9455	7.0291	2.4147	6.887	6.512	-	19.142	8.891
Streblospio benedicti	0.0371	0.1580	0.0080	0.0099	0.0596	0.0281	0.0751	0.0054	0.0779	0.1100	0.006	0.002	-	0.003	0.002
Gammarus sp.	-	-	-	-	-	-	-	-	-	-	0.003	0.024	-	0.003	0.017
Leptocherirus plumulosus	0.0104	0.0424	0.0001	0.0024	0.0623	0.1125	-	0.0038	4.0962	7.4122	2.653	1.501	-	0.896	1.347
Cyathura polita	0.1822	-	0.0187	0.0007	-	0.0460	-	0.8951	1.4372	-	1.381	0.568	-	1.152	0.504
Gemma gemma	0.1170	-	0.0668	0.0190	-	0.0020	-	2.4478	-	-	-	-	-	-	-
Macoma balthica	0.0776	0.5004	0.0005	0.0440	0.7391	0.9197	0.0997	0.0753	5.4440	0.6330	0.000	-	-	-	-
Macoma mitchelli	-	-	0.2339	0.0090	0.0031	0.6387	-	0.4772	0.9670	0.0247	0.167	-	-	0.008	0.278
Mulinia lateralis	0.2857	2.7513	0.7820	0.2649	0.9949	0.1511	0.6416	0.8146	0.2020	0.0336	0.046	-	-	-	-
Mya arenaria	0.0086	0.0287	3.4602	0.0034	0.3154	6.1252	-	5.2597	1.1016	-	-	-	-	-	-
Tagelus plebius	0.0032	-	0.7193	9.0868	-	0.0510	-	42.8380	-	-	-	-	-	-	-
Rangia cuneata	-	-	-	-	-	-	-	-	-	0.0030	23.872	32.337	-	13.021	18.699
Acteocina canaliculata	0.1642	0.0034	0.0489	0.0428	0.0001	-	0.0000	0.0024	-	0.0019	-	0.001	-	-	-
Haminoe solitaria	0.1802	-	0.0112	0.0548	-	0.1369	-	0.0652	-	-	-	-	-	-	-
Micrura leidyi	1.7424	-	0.6723	1.8658	0.4709	0.9411	0.0118	2.7383	2.8345	-	-	-	-	-	-
Carinoma tremaphorus	0.0097	0.0048	0.0579	0.0082	-	0.0367	-	0.0433	0.3764	0.1406	0.047	-	-	0.134	0.092
Corbicula sp.	-	-	-	-	-	-	-	-	-	-	-	-	1929.06	-	-
Polychaeta	1.4243	5.9904	1.9589	3.2439	5.2088	5.6291	0.9375	2.7794	33.1306	16.7524	7.009	6.514	-	19.526	9.007
Crustacea	0.1926	0.0424	0.0188	0.0031	0.0623	0.1585	-	0.8989	5.5334	7.4122	4.037	2.093	-	2.051	1.868
Mollusca	0.8357	3.2838	5.3228	9.5247	2.0526	8.0246	0.7413	51.9802	7.7146	0.6962	24.085	32.338	1929.06	13.029	18.977
Other	1.7521	0.0048	0.7302	1.8740	0.4709	0.9778	0.0118	2.7816	3.2109	0.1406	0.047		-	0.134	0.092
Totals	4.2047	9.3214	8.0307	14.6460	7.7946	14.790	1.6906	58.4401	49.5895	25.0014	35.178	40.945	1929.06	34.740	29.944

Table IV-15. Continued

Species	43	44	99	48	51	52	62	64	66	68	71	74	77
Eteone heteropoda	0.014	0.0229	0.01	0.0378	0.0074	0.0512	0.0170	0.0444	0.0098	0.0479	0.0607	0.0129	0.0067
Glycinde solitaria	0.003	0.0128	-	0.0047	0.1450	0.0081	-	0.0377	-	-	0.1853	0.0166	-
Hertromastus filiformis	7.889	0.2404	11.63	0.1583	1.2989	0.0177	0.2913	0.7823	-	0.8690	0.0849	1.2068	0.0479
Nereis succinea	0.729	1.2198	4.92	2.6738	0.7446	0.2342	0.0110	3.476	-	4.1882	5.3957	3.0284	0.1587
Paraprionospio pinnata	-	0.0664	0.01	0.0875	0.0995	0.0828	-	0.2144	-	-	2.1222	-	-
Marenzelleria viridis	25.459	9.8676	20.70	3.7827	0.3739	0.0656	0.8876	0.5714	1.0431	3.9185	0.2776	1.6381	4.8811
Streblospio benedicti	0.010	0.0563	0.01	0.0852	0.0301	0.0761	0.0011	0.0105	0.0004	0.1263	0.0770	0.0044	0.0040
Gammarus sp.	0.004	0.0198	0.00	0.0514	-	-	0.7348	-	0.0315	0.0125	-	0.0190	0.0050
Leptocherirus plumulosus	0.932	5.8179	1.52	2.9174	0.0018	0.0015	0.1857	0.4885	0.4154	10.7089	0.7820	1.3188	0.3903
Cyathura polita	3.821	-	3.53	-	0.2690	-	0.9463	0.4295	0.0403	0.3898	-	4.2545	2.3097
Gemma gemma	-	-	-	-	-	-	-	-	-	-	-	-	-
Macoma balthica	3.319	2.4932	3.70	1.0356	0.1294	1.4466	1.5208	3.1939	0.0001	2.6664	3.9443	74.2688	12.9543
Macoma mitchelli	0.278	-	0.23	-	1.4929	-	0.1396	0.1742	-	0.0201	0.0116	0.8062	0.5069
Mulinia lateralis	-	0.0871	0.01	0.2347	0.0873	0.7572	0.0088	1.2453	-	0.1148	5.8953	-	-
Mya arenaria	32.213	-	5.17	-	1.1296	-	-	-	-	-	-	-	-
Tagelus plebius	-	-	-	-	1.9450	-	-	-	-	-	-	-	-
Rangia cuneata	-	-	0.12	-	-	-	0.0546	-	0.0298	0.1815	-	-	0.0131
Acteocina canaliculata	0.002	-	0.00	-	0.0023	-	-	-	-	-	0.0028	-	-
Haminoe solitaria	-	-	-	-	0.0374	-	-	-	-	-	-	-	-
Micrura leidyi	1.110	0.0375	0.01	0.0287	5.5151	-	-	0.9122	-	-	0.5229	-	-
Carinoma tremaphorus	0.608	0.1175	0.76	0.0312	0.0650	-	0.1656	0.8506	0.0449	0.1966	0.1238	0.6472	0.2308
Corbicula sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychaeta	34.104	11.4862	37.28	6.8300	2.6994	0.5357	1.2080	5.1370	1.0533	9.1499	0.2034	5.9074	5.0984
Crustacea	4.757	5.8377	5.05	2.9700	0.2708	0.0015	1.8668	0.9180	0.4872	11.1112	0.7820	5.5923	2.7050
Mollusca	35.812	2.5803	9.23	1.2703	4.7865	2.2038	1.7238	5.5256	0.0299	2.9828	9.8540	75.0750	13.4743
Other	1.718	0.1550	0.77	0.0599	5.5801	-	0.1656	0.8506	0.0449	0.1966	0.6467	0.6472	0.2308
Totals	76.391	20.0592	52.33	11.1302	13.3368	2.7410	4.9642	12.4312	1.6153	23.4413	19.4861	87.2219	22.3941

Table IV-16. Summary of information from the literature on the natural history of estuarine species collected in the Long-term Benthic Program

Species	Season of Reproduction	Egg Protection Mode	Larval Development		Life Span
			Duration	Type	
Amastigos caperatus	No direct information available -- see Capitella capitata and Heteromastus filiformis for information on members of the same taxonomic family.				
Asabellides oculata	No direct information available -- see Hobsonia florida and Melinna maculata for information on members of the same taxonomic family.				
Boccardiella hamata	May-Sep Peak: Jun-Jul	Egg capsules retained in burrow	2 1/2 to 3 wks	Pelagic	
Capitella capitata*	Winter-Spring	Brooded in tubes of female	0 to 2 wks	Pelagic or direct	2 yrs
Clymenella torquata	Spring	None	7 days	Demersal	
Drilonereis longa					
Eteone heteropoda	Spring	None		Pelagic	
Eteone lactea	Spring	None		Pelagic	
Glycera dibranchiata	Spring and Fall	None		Demersal? with short swimming phase as trocho-phore	5 yrs

*Sibling species not differentiated

Table IV-16. Continued

Species	Feeding Mode	Mobility	Sediment Relations	References
Amastigos caperatus				
Asabellides oculata				
Boccardiella hamata	Selective surface deposit	Sedentary	Tube builder	Dean and Blake (1966)
Capitella capitata*	Subsurface deposit	Slowly mobile	Burrower, vertical distribution: 0-5 cm, maximum 0-2 cm	Grassle and Grassle (1977) Myers (1977b) Muus (1967) Warren (1976) Whitlach (1980) Tenore (1975)
Clymenella torquata	Subsurface deposit, head down	Sedentary - may change position by continuous tube building	Tube builder, creates subsurface feeding voids	Mangum (1964) Newell (1951) Dobbs and Whitlach (1982)
Drilonereis longa	Subsurface deposit Gut contents: sand	Mobile	Burrower	Sanders et al. (1962) Pettibone (1963)
Eteone heteropoda	Omnivorous Gut contents: sand, detritus, diatoms Preys on Nereis succinea	Highly mobile	Burrower and surface crawler Vertical distribution: 0-5 cm, maximum 0-2 cm	Rasmussen (1956) Sanders et al. (1962) Sanders et al. (1965) Simon (1965) Whitlach (1980) Blake (1975)
Eteone lactea		Highly mobile	Burrower -- forms mucous sheath Vertical distribution: several cm depth	Rasmussen (1956) Myers (1977a) Blake (1975)
Glycera dibranchiata	Omnivorous Gut contents: sand, polychaete setae Able to assimilate dissolved carbon	Highly mobile - may enter plankton at night, capable of migration as adult	Burrower -- winding, mucous-lined system Vertical distribution: maximum 30 cm	Dauer and Simon (1976) Dean (1978) Reinharz and O'Connell (1981) Simpson (1962 a and b) Sanders et al. (1962) Creaser (1971) Klawe and Dickie (1957) Adams and Angelovic (1970)

Table IV-16. Continued

Species	Season of Reproduction	Egg Protection Mode	Larval Development		Life Span
			Duration	Type	
Glycinde solitaria	Year round (Florida)			Pelagic	
Heteromastus filiformis	Jan-Apr			Pelagic	2+ yrs
Hobsonia florida		Retained in tube of female		Pelagic?	
Laeonereis culveri	May-Oct	Eggs retained in tube of female		Demersal	
Leitoscoloplos fragilis	Summer	Cocoons	4 days	Pelagic	
Leitoscoloplos robustus	No direct information available -- see *Leitoscoloplos fragilis* for information on a member of the same genus.				
Lepidametria commensalis					
Lepidonotus sublevis				Pelagic?	
Loima medusa	Spring	None		Pelagic	

Table IV-16. Continued

Species	Feeding Mode	Mobility	Sediment Relations	References
Glycinde solitaria	Carnivore	Highly mobile — capable of migration as adult	Burrower Vertical distribution: maximum 5 cm	Fauchald and Jumars (1979) Dauer and Simon (1976) Blake (1975) Reinharz and O'Connell (1981)
Heteromastus filiformis	Subsurface true deposit Gut contents: sand, detritus, diatoms	Slowly mobile	Burrower — may be interstitial in sand but forms network of feeding galleries in finer sediments Vertical distribution: up to 35 cm, maximum 5-15 cm	Buchanan and Warwick (1974) Myers (1977b) Sanders et al. (1962) Hines and Comtois (1985) Whitlach (1980) Robertson (1979)
Hobsonia florida	Surface deposit Gut contents: detritus, algae and larval invertebrates	Sedentary — may change position by continuous tube building	Tube builder	Fauchald and Jumars (1979) Gallagher et al. (1983)
Laeonereis culveri	Deposit feeder Gut contents: sediment and detritus	Highly mobile	Burrower	Mazurkiewicz (1975)
Leitoscoloplos fragilis	Subsurface deposit Gut contents: sand, diatoms, detritus, macroalgae, possible animal material	Mobile	Burrower	Anderson (1961) Sanders et al. (1962) Pettibone (1963)
Leitoscoloplos robustus				
Lepidametria commensalis	Commensal in tubes of terrebellids	Highly mobile	Surface crawler	Gardiner (1975) Fox and Ruppert (1985) Pettibone (1963)
Lepidonotus sublevis	Predator	Highly mobile	Surface crawler	Rasmussen (1956) Pettibone (1963) Fauchald and Jumars (1979)
Loima medusa	Surface deposit	Sedentary — changes position by continuous tube building	Tube builder U-shaped tube	Wilson (1928) Observations of M.H. Hiegel Newell (1970)

Table IV-16. Continued

Species	Season of Reproduction	Egg Protection Mode	Larval Development		Life Span
			Duration	Type	
Manayunkia speciosa				Direct	
Marenzellaria viridis	Feb	None	2 mos	Pelagic	
Mediomastus ambiseta		Gelatinous masses	3 to 4 wks	Pelagic	
Melinna maculata					
Microphthalmus aberrans	Winter-Spring	Mucous string		Pelagic	
Nephtys bucera	Spring	None		Pelagic	5-7 yrs
Nephtys picta	Spring	None		Pelagic	5-7 yrs
Nereis succinea	Spring and Fall	None		Pelagic	2 yrs
Orbinia ornata	No direct information available - see Leitoscoloplos fragilis for information on a member of the same taxonomic family				

Table IV-16. Continued

Species	Feeding Mode	Mobility	Sediment Relations	References
Manayunkia speciosa	Suspension feeder but may also turn down to contact sediment and deposit feed	Sedentary	Tube builder	Fauchald and Jumars (1979) Pennak (1978)
Marenzellaria viridis	Selective surface deposit or suspension (sand habitat only) Gut contents: sand, detritus, diatoms, nematodes	Highly mobile, enter plankton during spawning	Builds vertical, mucous-lined shafts Vertical distribution: 0-15 cm, maximum abundance 2-5 cm, maximum biomass 5-15 cm	George (1966) Sanders et al. (1962) Dauer et al. (1980) Reinharz et al. (1979) Hines and Comtois (1985) Dauer et al. (1981)
Mediomastus ambiseta	No direct information available - see Heteromastus filiformis for information on a member of the same taxonomic family.			Muus (1967) (as Heteromastus filiformis)
Melinna maculata	Surface deposit Gut contents: detritus, algae, and larval invertebrates	Sedentary -- may change position by continuous tube building	Tube builder	Fauchald and Jumars (1979)
Microphthalmus aberrans	Selective deposit	Highly mobile	Interstitial	Schroeder and Hermans (1975) Fauchald and Jumars (1979) Blake (1975) Rasmussen (1956) (as sczelkowii)
Nephtys bucera	Predator and facultative detritus feeder	Highly mobile	Burrower	Rasmussen (1956) Clark (1962) Olive (1977) Tenore et al. (1977)
Nephtys picta	Predator and facultative detritus feeder	Highly mobile	Burrower	Rasmussen (1956) Whitlach (1980) Clark (1962) Tenore et al. (1977)
Nereis succinea	Omnivore, carrion feeder Gut contents: sediment, detritus, algae, Corophium	Highly mobile — enters plankton during spawning, capable of migration as adult	Burrower — mucous lined burrows Vertical distribution: 5-30 cm, maximum 10-15 cm	Rasmussen (1973) Sanders et al. (1965) Carmen et al. (1978) Hines and Comtois (1985) Briggs et al. (1979) Personal observations of M.H. Hiegel Mettam (1981) Dauer and Simon (1976)
Orbinia ornata				

Table IV-16. Continued

Species	Season of Reproduction	Egg Protection Mode	Larval Development		Life Span
			Duration	Type	
Parahesione leuteola	Spring				
Paramphinome sp.					
Paraonis fulgens	Spring and Fall				
Paraprionospio pinnata				Pelagic	
Pectinaria gouldii	Spring				2+ yrs
Phyllodoce arenae	Jun-Aug			Pelagic	
Podarke obscura	Jul-Aug				
Podarkeopsis levifuscina				Pelagic	
Polydora cornuta	Mar-Sep	Brooded in tube of female	4 to 6 wks	Pelagic	

Table IV-16. Continued

Species	Feeding Mode	Mobility	Sediment Relations	References
Parahesione leuteola	Carnivorus	Highly mobile	Commensal with mud shrimp	Fox and Ruppert (1985) Pettibone (1963)
Paramphinome sp.	Carnivorous or carrion eater	Mobile		Fauchald and Jumars (1979)
Paraonis fulgens	Two modes described: 1) anchors in sand and searches surrounding area for debris 2) subsurface burrower, selects individual sand grains	Slowly mobile	Burrower -- forms spiral mucoid feeding traces	Rasmussen (1973) Strelzov (1973) Fauchald and Jumars (1979) Grant (1983)
Paraprionospio pinnata	Selective surface deposit or suspension depending on availability of suitable particles	Sedentary, sporadic	Forms branched burrow networks with head at surface Vertical distribution: 0-25 cm, maximum 0-10 cm	Dauer et al. (1981) Reinharz and O'Connell (1981)
Pectinaria gouldii	Selective subsurface deposit, feeds head down	Sedentary, sporadic	Builds tube of glued sand grains which it carries with it as it burrows	Whitlach (1974) Gordon (1966) Robertson (1979) Busch and Loveland (1975)
Phyllodoce arenae	Carnivore or detritus feeder	Highly mobile		Rasmussen (1973) Fauchald and Jumars (1979) Pettibone (1963)
Podarke obscura	Shows commensal tendencies	Highly mobile	Enters burrows of other animals Vertical distribution: 0-6 cm	Myers (1977b) Pettibone (1963)
Podarkeopsis levifuscia			Enters burrows of other animals (e.g., Glycera)	Gardiner (1975) Blake (1975)
Polydora cornuta	Selective surface deposit or suspension Gut contents: sand, diatoms, larvae of clams	Sedentary, never leaves tube	Tube builder Vertical distribution: 0-2 cm	Orth (1971) Sanders et al. (1962) Mortensen and Galtsoff (1944) Hines and Comtois (1985) Blake (1969) Dauer et al. (1981)

Table IV-16. Continued

Species	Season of Reproduction	Egg Protection Mode	Larval Development		Life Span
			Duration	Type	
Polydora websteri	Mar-Jul	Brooded in tube of female	6 wks	Pelagic (a second type of larvae shows direct development)	
Sabellaria vulgaris	Apr-Oct	None	19 to 30 days	Pelagic	
Scolelepis texana					
Scoloplos rubra	No direct information available -- see Leitoscolopios fragilis for information on a member of the same genus.				
Sigamora tentaculata					
Spio filicornis					
Spiochaetopterus costarum					
Spiophanes bombyx					
Streblospio benedicti	Jun - Oct	Brood pouches on body of female	0-5 wks in plankton after release from pouch	Brooded then Pelagic	

Table IV-16. Continued

Species	Feeding Mode	Mobility	Sediment Relations	References
Polydora websteri	Selective surface deposit	Sedentary	Tube builder calcareous substrates, bores into substrate using acid secretion	Blake (1969) Zottoli and Carriker (1974) Haigler (1969)
Sabellaria vulgaris	Ciliary mucous filter feeder	Sedentary	Tube builder hard substrates, commonly found in aggregated masses	Fauchald and Jumars (1979) Eckelbarger (1975) Curtis (1978)
Scolelepis texana	Principally suspension but some selective surface deposit	Sedentary, sporadic	Vertical burrows with head above sediment surface	Dauer et al. (1981)
Scoloplos rubra				
Sigambra tentaculata		Mobile		
Spio filicornis	Suspension or selective surface deposit	Sedentary	Tube builder — mucous sand tube extending above sediment surface	Dauer et al. (1981)
Spiochaetopterus costarum	Filtering — mucous bag	Sedentary	Tube builder Vertical distribution: 0-8 cm	Barnes (1967)
Spiophanes bombyx	Suspension or selective surface deposit	Sedentary	Tube builder: mucous sand tube extending above sediment surface	Dauer et al. (1981)
Streblospio benedicti	Selective surface deposit or suspension Gut contents: sand diatoms, detritus,	Highly mobile — new tube every 2-3 days	Tube builder — straight unbranched, vertical mucous tube Vertical distribution: 0-15 cm, maximum 0-2 cm	Dean (1965) Sanders et al. (1962) Levin (1981) Hines and Comtois (1985) Dauer et al. (1981) Levin (1984)

Table IV-16. Continued

Species	Season of Reproduction	Egg Protection Mode	Larval Development		Life Span
			Duration	Type	
Tharyx sp.					
Anadara ovalis	May-Oct	None		Pelagic	
Amygdalum papyria					
Acteocina canaliculata	Spring	Egg mass	3-4 wks	Direct	1 yr
Acteon punctostriatus		Egg masses in sand		Pelagic	
Corbicula sp.	Sep-Dec			Direct	
Cratena pilata		Egg masses attached to hard substrate		Pelagic	
Doridella obscura	Year round	Egg masses laid on bryozoa and solid substrates	9 days (25c) 11 days (22c) 20 days (13c)	Pelagic	
Ensis directus	Jan-May			Pelagic	

Table IV-16. Continued

Species	Feeding Mode	Mobility	Sediment Relations	References
Tharyx sp.	Selective surface deposit Gut contents: sand, diatoms or empty	Slowly mobile	Burrower Vertical distribution: 0-5 cm, maximum 0-2 cm	Myers (1977b) Sanders et al. (1962) Whitlach (1980)
Acteocina canaliculata	Predator -- foraminifera and small prosobranchs	Mobile 6 mm/min	Surface crawler Vertical distribution: 0-2 mm	Myers (1977b) Smith (1967a) Rasmussen (1973) McLusky and Elliot (1981) Smith (1967b)
Acteon punctostriatus	Predator (principally on polychaetes)	Mobile	Surface crawler and shallow burrower	Personal observation of M.H. Hiegel Thompson (1976)
Anadara ovalis	Suspension	Slow burrower	Buried in sediment with shell posterior slightly exposed	Stanley (1970) Chanley and Andrews (1971)
Amygdalum papyria	Suspension	Sedentary	Attached to grass, algae and oysters with bysuss	Stanley (1970)
Corbicula sp.	Suspension	Slow burrower	Burrower (short siphons)	Personal observation of M.H. Hiegel
Cratena pilata	Predator	Mobile	Surface crawler	Fox and Rupert (1985) Marcus (1972)
Doridella obscura	Predator on bryozoans	Mobile	Epifaunal	Newell (1970) Perron and Turner (1977) Vogel (1969)
Ensis directus	Suspension	Rapid burrower, retains ability to swim at lengths up to 27 mm	Burrower, forms permanent burrow	Chanley and Andrews (1971) Stanley (1970) Williams and Porter (1971)

Table IV-16. Continued

Species	Season of Reproduction	Egg Protection Mode	Larval Development		Life Span
			Duration	Type	
Epitonium rupicola					
Gemma gemma	Mar-Oct	Brooded within shell of parent		Direct	2-3 yrs
Haminoea solitaria		Egg masses		Pelagic	
Hydrobia sp.	Spring-Summer	Egg capsules attached to bottom debris or shell of another Hydrobia	3-10 days	Demersal? (Veligers are poor swimmers)	1.5 yrs
Ischadium recurvum	Apr-Dec	None		Pelagic	
Lyonsia hyalina	Feb-Jun	None	3 days	Pelagic	
Macoma balthica	Spring and Fall	None	2-5 wks	Pelagic	6-10 yrs (mid-Atlantic latitudes)
Macoma mitchelli	Apr-Dec	None		Pelagic	
Mulinia lateralis	Feb-Oct	None	6-8 days	Pelagic	2 yrs

Table IV-16. Continued

Species	Feeding Mode	Mobility	Sediment Relations	References
Epitonium rupicola		Mobile	Surface crawler	
Gemma gemma	Suspension	Moderately rapid, may be transported by currents	Vertical distribution: Summer: 0-2 cm, maximum 0.5 cm Winter: 0-10 cm, maximum 2.5 cm	Chanley and Andrews (1971) Bradley and Cooke (1959) Green and Hobson (1970) Sellmer (1967) Stanley (1970)
Haminoea solitaria	May be herbivorous	Mobile, may be able swim by waving mantle edges	Burrower	Personal observation of M.H. Hiegel Thompson (1976)
Hydrobia sp.	Grazers (diatoms and detritus) and epistratal	Mobile 30 mm/min	Surface crawler	Muus (1967) Chatfield (1972) Smith (1967b)
Ischadium recurvum	Suspension	Sedentary	Attached to rocks and oysters by bysus	Cain (1975) Maurer et al. (1974) Shaw (1965)
Lyonsia hyalina	Suspension	Slowly mobile	Burrower	Chanley and Andrews (1971) Chanley and Castagna (1966)
Macoma balthica	Surface deposit and suspension	Moderately rapid	Burrower (long siphons) Vertical distribution: 0-30 cm, maximum abundance 0-5 cm, maximum biomass 15-30 cm	Caddy (1969) Gilbert (1973) Shaw (1965) Braefield and Newell (1961) Hines and Comtois (1985)
Macoma mitchelli	Surface deposit		Burrower (long siphons) Vertical Distribution: 0-10 cm with larger individuals at 5-10 cm	Shaw (1965) Hines and Comtois (1985)
Mulinia lateralis	Suspension	Moderately rapid	Burrower (short siphons) Vertical distribution: 0-5 cm	Reinharz and O'Connell (1981) Chanley and Andrews (1971) Calabrese (1970) Calabrese (1969) Levinton and Bambach (1969) Stanley (1970)

Table IV-16. Continued

Species	Season of Reproduction	Egg Protection Mode	Larval Development		Life Span
			Duration	Type	
Mya arenaria	Mar-Apr and Sep-Dec	None		Pelagic	13 yrs
Mysella sp.					
Mytilopsis leucophaeta		None		Pelagic	
Musculium sp.	Year-round	Brooded in parental gills		Direct	1-1 1/2 yrs
Odostomia trifida					
Parvilucina multilineata					
Petricola pholadiformis	Mar-Oct				
Pisidium sp.	Year round Peak: Spring	Brooded in parental gills		Direct	1-1 1/2 yrs
Rangia cuneata	Apr-Jun and Sep-Oct	None	7 days	Pelagic	>10 yrs

Table IV-16. Continued

Species	Feeding Mode	Mobility	Sediment Relations	References
Mya arenaria	Suspension	Slow burrower — adults are sedentary but can reburrow if disturbed	Burrower (long siphons) Vertical distribution: 0-20 cm, maximum biomass 10-20 cm	Chanley and Andrews (1971) Pfitzenmeyer (1962) Pfitzenmeyer (1965) Hines and Comtois (1985) Pfitzenmeyer and Drobeck (1967) Brousseau (1978)
Mysella sp.	Symbiont — attaches to host by bysus	Sedentary		Fox and Ruppert (1985)
Mytilopsis leucophaeta	Suspension	Sedentary	Attached to solid substrates by bysus	Personal observation of M.H. Hiegel Stanley (1970)
Musculium sp.				Pennak (1978)
Odostomia trifida				
Parvilucina multilineata				
Petricola pholadiformis	Suspension	Moderately rapid burrower	Burrower in hard clay or shell substrates	Chanley and Andrews (1971) Stanley (1970)
Pisidium sp.				Pennak (1978)
Rangia cuneata	Suspension (has been observed to draw in surface detritus with feeding current)	Slow burrower	Burrower (short siphons)	Chanley and Andrews (1971) Cain (1975) Chanley (1965) Stanley (1970) Tenore et al. (1968)

Table IV-16. Continued

Species	Season of Reproduction	Egg Protection Mode	Larval Development		Life Span
			Duration	Type	
Sayella chesapeakea					
Tagelus plebeius	Spawn: Aug-Sep Set: Mar-May	None	8-11 days	Pelagic	4 yrs
Tellina agilis	Apr-Jul	None	1-2 mos	Pelagic	
Acanthohaustorius millsi	Year round with peaks in spring and fall	Brood chamber		Direct	Annual
Ampelisca abdita	May - June	Brood chamber		Direct	Annual
Cassidinidea ovalis		Brood chamber		Direct	
Chiridotea almyra		Brood chamber		Direct	
Chiridotea caeca		Brood chamber		Direct	

Table IV-16. Continued

Species	Feeding Mode	Mobility	Sediment Relations	References
Sayella chesapeakea		Mobile	Surface crawler	Personal observation of M.H. Hiegel
Tagelus plebeius	Suspension	Slow burrower, retains ability to swim at lengths up to 12 mm	Permanent burrows up to 45 cm deep with siphons extending to surface in Y-shaped channels	Holland and Dean (1977a) Stanley (1970) Chanley and Castagna (1971) Holland and Dean (1977b) Williams and Porter (1971)
Tellina agilis	Suspension and deposit	Rapid burrower, transported by currents as juveniles	Burrower (long siphons)	Stanley (1970) Chanley and Andrews (1971) Barnett (1985) Gilbert (1968)
Acanthohaustorius millsi	Subsurface filter feeder	Rapid, enters plankton at night with peak numbers in summer-fall	Burrower: tunnels continuously at depths 0-10 cm	Williams and Bynum (1970) Howard and Elders (1970) Grant (1981) Sameoto (1969) Bousfield (1973) Dexter (1967)
Ampelisca abdita	Suspension and some Surface deposit	Rapid, sporadic, enters plankton at night	Tube builder, mucous tube up to 3.5 cm long Vertical distribution: 0-5 cm	Mills (1967) Bousfield (1973) Reinharz and O'Connell (1981) Williams and Bynum (1972)
Cassidinidea ovalis		Highly mobile	Surface crawler	Meglitsch (1972)
Chiridotea almyra		Rapid	Walks on surface	Meglitsch (1972)
Chiridotea caeca	Scavenger, animal tissue only	Rapid	Walks on surface and burrows a few millimeters below sediment surface	Meglitsch (1972) Tait (1927)

Table IV-16. Continued

Species	Season of Reproduction	Egg Protection Mode	Larval Development		Life Span
			Duration	Type	
Corophium lacustre	May-Sep	Brood chamber		Direct	Annual
Crangon septemspinosa	Mar-Oct Peak: Mar-May	Brood chamber		Pelagic	3.5 yrs
Cyathura polita	Spring-Summer	Brood chamber		Direct	3 yrs
Cyclaspis varians	Summer and fall	Brood chamber		Direct	5-12 mos
Edotea triloba		Brood chamber		Direct	
Erichsoniella sp. A		Brood chamber		Direct	
Gammarus fasciatus	Apr-Sep	Brood chamber	7-21 days	Direct	Annual
Gammarus tigrinus	Apr-Oct	Brood chamber		Direct	1 yr
Gammarus daiberi	Mar-Oct	Brood chamber		Direct	Annual

Table IV-16. Continued

Species	Feeding Mode	Mobility	Sediment Relations	References
Corophium lacustre	Surface deposit	Rapid, sporadic, enters plankton at night especially in spring	Tube builder Vertical distribution: 0-5 cm, maximum 0-2 cm	Wass (1972) Meadows and Reid (1966) Hines and Comtois (1985) Bousfield (1973) Williams and Bynum (1972)
Crangon septemspinosa	Predator and scavenger	Rapid, walks and swims	Walks on surface	Price (1962) Haefner (1979)
Cyathura polita	Scavenger — primarily detritus	Rapid	Burrower Vertical distribution: 0-15 cm, maximum 5 cm	Burbank (1961) Hines and Comtois (1985) Kruczynski and Subrahmanyam (1978)
Cyclaspis varians	Surface deposit and/or epistratal	Highly mobile, may enter plankton at night	Burrower	Watling (1979) Meglitsch (1972)
Edotea trilobe	Epistratal	Rapid, sporadic (feeds up to 2 hrs in one position)	Burrower Vertical distribution: 0-2 cm, maximum 0-1 cm	Myers (1977a) Sanders et al. (1965) Hines and Comtois (1985) Meglitsch (1972)
Erichsoniella sp. A		Highly mobile		Meglitsch (1972)
Gammarus fasciatus	Omnivorous (accepted plant and animal food in culture)	Rapid	Burrower (shallow)	Clemens (1950) Bousfield (1973)
Gammarus tigrinus	Detritivore	Highly mobile, enters plankton at night with peak numbers in winter	Epifaunal	Bousfield (1973) PSE&G (1984) Steele and Steele (1972) Williams and Bynum (1972)
Gammarus daiberi	Detritivore	Highly mobile	Epifaunal	Bousfield (1973) PSE&G (1984)

Table IV-16. Continued

Species	Season of Reproduction	Egg Protection Mode	Larval Development		Life Span
			Duration	Type	
Gammarus palustris	Feb-Oct Peak: Mar and Aug-Sep	Brood chamber	7-19 days	Direct	Annual
Gammarus sp.	No direct information available - see other Gammarus species for information on members of the same genus.				
Hargeria rapax		Brood chamber		Direct	
Heteromysis formosa	Apr-Oct	Brood chamber		Direct	
Idunella barnardi	May-Sep	Brood chamber		Direct	Annual
Idunella clymenellae	No direct information available -- see Idunella barnardi for information on members of the same genus.				
Lepidactylus dytiscus	Spring, summer and fall	Brood chamber		Direct	
Leptocheirus plumulosus	May-Sep	Brood chamber		Direct	Annual
Leucon americanus	Summer and Fall	Brood chamber		Direct	5-12 mos

Table IV-16. Continued

Species	Feeding Mode	Mobility	Sediment Relations	References
Gammarus palustris	Grazers - scrape surface of large plants and detritus for epiphytes Gut contents: detritus, diatoms, filamentous algae	Highly mobile, only juveniles were observed to enter the plankton	Epifaunal, under rocks and plants in the lower marsh zone	Rees (1975) Borowsky (1970) Gable and Croaker (1977)
Gammarus sp.				
Hargeria rapax	Suspension	Reduced swimming ability	Burrower Vertical distribution: 0-1 cm	Myers (1977b) Meglitsch (1972)
Heteromysis formosa	Suspension	Highly mobile, swims just above bottom at night	Walks on surface, hides during daylight	Meglitsch (1972) Allen (1982)
Idunella barnardi	Commensal on maldanid polychaetes (Clymenella torquata)	Highly mobile		Wass (1972) Bousfield (1973)
Idunella clymenellae				
Lepidactylus dytiscus	Burrowing suspension	Rapid, enters plankton at night	Continuous tunneling-series of vertical burrows in upper 3 cm of sediment	Dexter (1967) Howard and Elders (1970) Williams and Bynum (1972)
Leptocheirus plumulosus	Surface deposit and suspension	Rapid, sporadic, enters plankton at night, peak numbers in early spring	Burrower Vertical distribution: 0-10 cm	Sanders et al. (1965) Goodhart (1939) Bousfield (1973) Reinharz and O'Connell (1981) Williams and Bynum (1972)
Leucon americanus	Surface deposit and/or epistratal	Highly mobile	Vertical distribution: 0-1 cm	Sanders et al. (1965) Watling (1979)

Table IV-16. Continued

Species	Season to Reproduction	Egg Protection Mode	Larval Development		Life Span
			Duration	Type	
Melita nitida	May-Sep	Brood chamber	5-12 days	Direct	Annual
Microprotopus raneyi	May-Sep	Brood chamber		Direct	Annual
Monoculodes sp.1	May-Sep	Brood chamber		Direct	Annual
Mucrogammarus mucronatus	Apr-Sep	Brood chamber	5-14 days	Direct	Annual
Mysidopsis almyra					
Mysidopsis bigelowi	Apr-Nov Peak: Aug-Nov	Brood chamber		Direct	
Neomysis americana	Feb-Nov Peak: Apr/May, Jun, Aug	Brood chamber		Direct	3 generations per year 1 winter 2 summer
Ogyrides alphaerostris	Mid to late summer	Brood chamber	3-4 wks	Pelagic	

Table IV-16. Continued

Species	Feeding Mode	Mobility	Sediment Relations	References
Melita nitida		Highly mobile, enters plankton at night with peak numbers in summer	Epifaunal	Borowsky (1970) Bousfield (1973) Williams and Bynum (1972)
Microprotopus raneyi			Tube builder in sand	Bousfield (1973)
Monoculodes sp.1	Epistratal 5 mm below surface	Rapid, enters plankton at night with peak numbers in winter-spring	Shallow burrower Vertical distribution: 0-1 cm	Myers (1977a) Bousfield (1973) Williams and Bynum (1972)
Mucrogammarus mucronatus	Detritivore	Highly mobile, enters plankton at night especially in spring	Epifaunal	Borowsky (1970) Bousfield (1973) Williams and Bynum (1972)
Mysidopsis almyra	Suspension	Highly mobile, remained just above bottom day and night	Walks on surface	Meglitsch (1972) Hopkins (1965)
Mysidopsis bigelowi	Suspension	Highly mobile, enters plankton at night	Walks on surface	Meglitsch (1972) Hopkins (1965) Reitsema and Neff (1980)
Neomysis americana	Suspension and carnivorous	Highly mobile, enters plankton at night except during cold weather	Walks on surface	Meglitsch (1972) Hopkins (1965)
Ogyrides alphaerostris		Highly mobile, enters plankton at night		Sandifer (1972) Williams (1972)

Table IV-16. Continued

Species	Season of Reproduction	Egg Protection Mode	Larval Development		Life Span
			Duration	Type	
Oxyurostylis smithii		Brood chamber		Direct	
Palaemonetes spp.	May-Jul	Brood chamber	2-5 wks	Pelagic	1 yr
Parametopella cypris	May-Oct	Brood chamber		Direct	Annual
Parathemisto compressa	May-Oct	Brood chamber		Direct	
Pinnixa chaetopterana	Apr-Sep	Glued to pleopods		Pelagic	
Pleusymtes sp.	Mar-Jun	Brood chamber		Direct	Annual
Pseudoleptocuma minor	Summer and fall	Brood chamber		Direct	5-12 mos
Rhithropanopeus harrisii	Jun - Sep	Glued to pleopods	26-41 days (20 c) 11-18 days (30 c)	Pelagic	
Sphaeroma quadridentatum	Summer	Brood chamber		Direct	1.5 - 2.5 yrs

Table IV-16. Continued

Species	Feeding Mode	Mobility	Sediment Relations	References
Oxyurostylis smithii	Epistratal	Highly mobile	Surface crawler	Myers (1977a, 1977b) Meglitsch (1972)
Palaemonetes spp.	Grazer, detritus	Highly mobile	Walks on surface	Welsh (1975) Broad (1957a, 1957b)
Parametopella cypris		Mobile		Bousfield (1973)
Parathemisto compressa		Mobile		Bousfield (1973)
Pinnixa chaetopterana	Commensal -- many hosts (terebellid polychaetes molluscs, hemichordates)	Mobile within tube of host -- may leave tube	Enters tubes of host animals or burrows if no tube is available	Fox and Ruppert (1985) Meglitsch (1972) Sandifer (1972) Gray (1961)
Pleusymtes sp.		Mobile		Bousfield (1973)
Pseudoleptocuma minor	Surface deposit and/or epistratal	Highly mobile, may enter plankton at night	Burrower	Watling (1979) Meglitsch (1972)
Rhithropanopeus harrisii	Scavenger, grazer	Highly mobile	Walks on surface, hides in empty oyster shells and crevices	Ryan (1956) Costlow et al. (1966)
Sphaeroma quadridentatum	Filter-feeder	Highly mobile, swims rapidly and frequently	Burrower	Meglitsch (1972) Harvey (1969) personal observation of M.H. Hiegel Rotramel (1972)

Table IV-16. Continued

Species	Season of Reproduction	Egg Protection Mode	Larval Development		Life Span
			Duration	Type	
Stenothoe minuta	May-Sep and Dec-Jan	Brood chamber		Direct	Annual
Anthozoa (burrowing)		None		Pelagic	
Carinoma tremaphorus		None		Direct	
Diadumene leucolena		None		Pelagic	
Edwardsia elegans		None		Pelagic	
Leptosynapta tenuis	May-Jun and Oct-Aug	None		Pelagic	
Micrura leidyi		None		Pelagic	
Phoronis architecta				Pelagic	
Saccoglossus kowalevski					

Table IV-16. Continued

Species	Feeding Mode	Mobility	Sediment Relations	References
Stenothoe minuta		Mobile		Bousfield (1973)
Anthozoa (burrowing)	Predator			Meglitsch (1972)
Carinoma tremaphorus	Carnivore	Mobile	Burrower Vertical distribution: 0-10 cm, maximum 5-10 cm	Hines and Comtois (1985) MacGinitie and MacGinitie (1968) Gibson (1982) McDermott (1976)
Diadumene leucolena	Predator	Sedentary	Epifaunal	Meglitsch (1972) Steinberg and Kennedy Cargo and Schultz (1967)
Edwardsia elegans				Meglitsch (1972)
Leptosynapta tenuis	Nonselective deposit Gut contents: sand, detritus, diatoms	Sedentary, moves to new burrow every 1.5 days	Burrower -- forms U-shaped burrows Vertical distribution: 0-20 cm	Sanders et al. (1962) Myers (1977a) Frey and Howard (1969) Green (1978) Gordon (1966) Powell (1977)
Micrura leidyi	Predator Gut contents: sand, polychaete setae or empty	Mobile	Burrower	Riser (1974) Gibson (1982) Sanders et al. (1962) MacGinitie and MacGinitie (1968) McDermott (1976)
Phoronis architecta	Suspension and detritus by means of ciliated tentacles	Sedentary	Tube builder	MacGinitie and McGinitie (1968)
Saccoglossus kowalevski	Nonselective surface deposit Gut contents: sand, detritus, diatoms	Sedentary	Burrower - forms U-shaped feeding burrows	Sanders et al. (1962) Frey and Howard (1969) Newell (1970) Grant (1983)

Table IV-16. Continued

Species	Season of Reproduction	Egg Protection Mode	Larval Development		Life Span
			Duration	Type	
Stylochus elipticus		Egg masses cemented to solid substrate		Pelagic	

Table IV-16. Continued

Species	Feeding Mode	Mobility	Sediment Relations	References
Stylochus elipticus	Predator	Mobile	Surface crawler	Branscombe (1976) Lytwyn and McDermott (1976)

Table IV-17. Summary of QC resorts of samples processed at Versar, ESM Operations laboratories between July 1984 and April 1987

Sampling Month	Number of Samples Processed	Number of Samples Passed	% Error of Passed Samples	Number of Samples Rejected
Jul 1984	149	149	2.0	0
Aug 1984	128	128	4.5	0
Sep 1984	160	148	2.8	12
Oct 1984	102	102	1.6	0
Dec 1984	57	57	4.6	0
Jan 1985	159	153	0	6
Mar 1985	156	156	2.7	0
Apr 1985	210	148	4.7	62
May 1985	159	159	0	0
Jun 1985	210	148	4.7	62
Jul 1985	103	75	2.4	28
Aug 1985	102	64	3.4	38
Sep 1985	159	113	0.8	46
Nov 1985	159	150	3.4	9
Dec 1985	109	88	5.9	12
Jan 1986	93	86	4.3	9
Mar 1986	159	132	3.0	27
Apr 1986	159	131	2.1	28
May 1986	149	139	2.4	10
Jun 1986	156	127	3.3	29
Aug 1986	123	93	3.8	30
Sep 1986	93	68	1.0	25
Nov 1986	9	5	1.2	4
Dec 1986	62	62	1.3	0
Jan 1987		No samples sorted at Versar		
Mar 1987	11	11	3.8	0
Apr 1987	18	18	4.3	0

Table IV-18. Summary of QC resorts by Versar of samples processed at Cove Corporation between May 1987 and August 1987

Sampling Month	Number of Samples Processed	Number of Samples Passed	% Error of Passed Samples	Number of Samples Rejected
May 1987	198	145	1.1	53
Jun 1987	201	87	1.5	114
Jul 1987	201	99	2.2	102
Aug 1987	201	201	0	0

Table IV-19. Summary of QC recounts due to taxonomic problems, of samples processed at Versar, ESM Operations

Sampling Month	Number of Samples	Number Passed	% Error	Number Rejected
Jul 1984	149	120	1.4	28
Aug 1984	128	113	1.3	15
Sep 1984	159	159	1.7	0
Oct 1984	102	102	0.6	0
Dec 1984	57	57	1.5	0
Jul 1985	103	103	1.8	0
Aug 1985	103	88	1.8	15
Nov 1985	159	155	1.9	4
Dec 1985	108	108	0	0
Jan 1986	108	76	1.7	32
Mar 1986	159	122	1.7	37
Dec 1986	62	43	1.8	24

Table IV-20. Summary of QC recounts due to taxonomic problems of samples processed at Cove Corporation

Sampling Month	Number of Samples	Number Passed	% Error	Number Rejected
Jul 1984	61	10	6.2	51
Aug 1984	82	82	5.7	0
Sep 1984	51	51	1.8	0
Oct 1984	108	108	1.7	0
Dec 1984	153	150	1.3	0
Jan 1985	51	51	0.6	0
Jul 1985	101	87	3.1	21
Aug 1985	101	80	6.1	21
Nov 1985	51	51	1.9	0
Dec 1985	102	102	1.4	0
Jan 1986	102	102	0.7	0
Mar 1986	51	48	2.1	3
Jun 1986	52	51	2.2	1
Dec 1986	143	143	1.0	0
Jan 1987	111	111	2.5	0
Mar 1987	199	199	1.5	0
Apr 1987	192	192	1.7	0
May 1987	198	198	1.9	0

Table IV-21. Summary of QC results from reprocessing of reconstituted samples. All samples were from the December 1985 collection.

Station/Rep.	Original Processors	Processors	Total Counts	Percent Error
NCM6102	CG and LCS	CRS and MHH	173	4.6
PXM7802	SM and MHH	LJP and MHH	41	4.9
CCS0102	CRS and MHH	PA and MHH	29	3.4

Table IV-22. Summary of reanalysis of sediment samples to identify potential problems

Station	Month	% Silt/Clay for Original Sample	% Silt/Clay for QC Sample	% Sand for Original Sample	% Sand for QC Sample	% Error	Historic Range of Silt/Clay	Historic Range of Sand
MTS 45	Dec 85			97.26	97.13	0.13		
MTM 44	Dec 85	97.22	96.45			0.79	88.05-98.62	91.14-97.85
CTM 63	Dec 85	76.97	89.46			16.23	75-17-97.95	
CCS 01	Jan 86			98.54	98.84	0.30		
CTM 64	Jan 86	95.89	94.07			1.90	83.86-95.89	97.85-99.76
CCS 06	Mar 86			99.73	99.49	0.24		97.91-99.83
CCX 13	Mar 86			98.9	98.37	0.54		96.62-99.52
CTM 14	Mar 86	93.89	97.36			3.70	77.66-99.23	
MTM 44	Mar 86	92.41	92.61			0.22	83.35-98.62	
MTS 51	Dec 86			96.00	96.97	1.01		96.00-99.29
TSS 60	Dec 86			68.50	66.23	3.31		49.00-87.11
CCX 07	Dec 86			98.63	98.17	0.47		94.14-99.05
BHM 23	Dec 86	72.31	79.76			10.30	71.09-96.26	
CRM 67	Dec 86	98.94	90.96			8.07	78.16-98.94	
MTS 49	Mar 87			96.58	96.20	0.39		82.49-98.21
NCM 62	Mar 87	93.99	93.33			0.70	75.59-94.03	
PXM 71	Mar 87	85.19	94.14			10.51	79.17-97.89	
MBX 55	Apr 87			98.82	98.87	0.05		97.92-99.94
UBM 28	Apr 87	54.46	45.06			17.26	28.47-96.05	
MTM 40	Apr 87	96.91	97.95			1.07	90.52-99.40	
CCS 05	Jun 87			97.42	97.43	0.01		93.77-99.23
CBS 15	Jun 87			97.46	98.09	0.65		96.72-99.09
MTS 49	Jun 87			97.26	96.00	1.30		82.49-98.21
MTM 48	Jun 87	96.21	93.88			2.42	52.30-96.21	
PXM 70	Jun 87	92.54	96.69			4.48	80.34-96.03	
CCS 12	Jul 87			98.86	98.88	0.02		96.03-99.57
CBS 18	Jul 87			97.72	98.22	0.51		96.08-99.06
PXM 75	Jul 87	88.41	87.43			1.11	63.61-99.76	
PXM 80	Jul 87			89.97	89.09	0.98		22.32-89.87

Table IV-23. Summary of QA/QC sediment reanalyses for recent months

Month	Total Number of Stations Sampled	Number of Samples for which Original Silt/Clay Values Exceed Historic Ranges	Number of Redo's Whose Value was Significantly Different from the Original	Percent of Sediment Samples Processed for which Second Analysis was Kept
Mar 1987	70	5	3	4.3
Apr 1987	70	8	4	5.7
May 1987	70	7	1	1.4
Jun 1987	70	6	2	2.9
Jul 1987	70	7	7	10.0

Table IV-24. Summary of QA/QC data proofing of keypunched data from a few representative months

Sampling Month	Number of Keystrokes[a]	Number of Errors	% Error
Mar 85	16,000	112	0.7
Dec 86	10,700	12	0.1
Mar 87	16,000	9	0.1
Apr 87	16,000	16	0.1
Jun 87	16,000	54	0.3
Jul 87	2,760[b]	4	0.1
Aug 87	2,760[b]	0	0.0
Oct 87	2,760[b]	0	0.0

(a) Estimated
(b) Includes water quality data only