

**CHESAPEAKE BAY WATER QUALITY
MONITORING PROGRAM**

**LONG-TERM BENTHIC MONITORING
AND ASSESSMENT COMPONENT
LEVEL 1 COMPREHENSIVE REPORT**

JULY 1984-DECEMBER 2001 (VOLUME 2)

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Resource Assessment Service
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DATA SUMMARY A

**BENTHIC ENVIRONMENT AND COMMUNITY
COMPOSITION AT FIXED SITES:
SPRING 2001**

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Mainstem	Station: 001	Rep: 01
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 09MAY01
	Sampled Area: 0.025 sq.m	Time: 9:07:00
BOTTOM ENVIRONMENT		
Depth (m): 2.5	Salinity (ppt): 10.92	Temperature (C): 16.65
Dissolved Oxygen (mg/l): 10.8	Sediment Silt-Clay (%): 0.85	Total Carbon (%): 0.05
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	0.63	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	5480	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	0.40	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	1.46	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	0.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	80	0.00200
Ameroculodes species complex	40	0.00200
Gemma gemma	80	0.00200
Geukensia demissa (Epi)	40	0.00200
Macoma balthica	280	0.00200
Macoma mitchelli	40	0.00200
Marenzelleria viridis	4960	0.39200
Total Abundance w/ Epi.	5520	
Total Abundance w/o Epi.	5480	
Number of Taxa w/ Epi.	7	
Number of Taxa w/o Epi.	6	
Total Biomass w/ Epi.		0.40400
Total Biomass w/o Epi.		0.40200

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Mainstem	Station: 001	Rep: 02
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 09MAY01
	Sampled Area: 0.025 sq.m	Time: 9:07:00
BOTTOM ENVIRONMENT		
Depth (m): 2.5	Salinity (ppt): 10.92	Temperature (C): 16.65
Dissolved Oxygen (mg/l): 10.8	Sediment Silt-Clay (%): 0.85	Total Carbon (%): 0.05
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	0.79	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	13120	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	2.63	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	0.91	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	0.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	40	0.01200
Ameroculodes species complex	320	0.04400
Eteone heteropoda	40	0.02000
Gemma gemma	40	0.00200
Hargeria rapax	40	0.00800
Lepidactylus dytiscus	40	0.03200
Leptocheirus plumulosus	40	0.01600
Macoma balthica	640	0.05600
Macoma mitchelli	40	0.57600
Marenzelleria viridis	11640	1.54000
Micrura leidyi	40	0.26000
Paraonis fulgens	200	0.06000
Total Abundance w/ Epi.	13120	
Total Abundance w/o Epi.	13120	
Number of Taxa w/ Epi.	12	
Number of Taxa w/o Epi.	12	
Total Biomass w/ Epi.		2.62600
Total Biomass w/o Epi.		2.62600

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Mainstem	Station: 001	Rep: 03
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 09MAY01
	Sampled Area: 0.025 sq.m	Time: 9:07:00
BOTTOM ENVIRONMENT		
Depth (m): 2.5	Salinity (ppt): 10.92	Temperature (C): 16.65
Dissolved Oxygen (mg/l): 10.8	Sediment Silt-Clay (%): 0.85	Total Carbon (%): 0.05
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	0.89	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	11640	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	2.09	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	0.69	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	0.34	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	40	0.00200
Ameroculodes species complex	480	0.05200
Gemma gemma	80	0.02400
Heteromastus filiformis	40	0.00200
Macoma balthica	840	0.06400
Macoma mitchelli	40	0.03600
Marenzelleria viridis	9960	1.28800
Micrura leidyi	40	0.62400
Paraonis fulgens	120	0.00200
Total Abundance w/ Epi.	11640	
Total Abundance w/o Epi.	11640	
Number of Taxa w/ Epi.	9	
Number of Taxa w/o Epi.	9	
Total Biomass w/ Epi.		2.09400
Total Biomass w/o Epi.		2.09400

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Calvert Cliffs Discharge		Station: 006	Rep: 01
Gear: Modified Box Corer		Habitat: High Mesohaline Sand	Date: 09MAY01
		Sampled Area: 0.025 sq.m	Time: 10:01:00
BOTTOM ENVIRONMENT			
Depth (m): 2.5	Salinity (ppt): 10.87	Temperature (C): 16.89	
Dissolved Oxygen (mg/l): 10.8	Sediment Silt-Clay (%): 0.69	Total Carbon (%): 0.03	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value Score
Shannon-Wiener Index	0.48		Pollution Indicative Species Abundance (%) 0.00
Abundance (#/m2)	19360		Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	3.90		Pollution Sensitive Species Abundance (%) 96.90
Carnivore-Omnivore Abundance (%)	1.45		Pollution Sensitive Species Biomass (%) 87.13
Deep Deposit Feeder Abundance (%)	0.00		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Acteocina canaliculata	40		0.00200
Ameroculodes species complex	280		0.04000
Amphiporus bioculatus	40		0.00200
Carinoma tremaphoros	80		0.00200
Eteone foliosa	80		0.00200
Gemma gemma	40		0.28800
Macoma balthica	600		0.02800
Macoma mitchelli	40		0.10800
Marenzelleria viridis	18120		3.36800
Micrura leidyi	40		0.06000
Total Abundance w/ Epi.	19360		
Total Abundance w/o Epi.	19360		
Number of Taxa w/ Epi.	10		
Number of Taxa w/o Epi.	10		
Total Biomass w/ Epi.			3.90000
Total Biomass w/o Epi.			3.90000

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Calvert Cliffs Discharge	Station: 006	Rep: 02
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 09MAY01
	Sampled Area: 0.025 sq.m	Time: 10:01:00
BOTTOM ENVIRONMENT		
Depth (m): 2.5	Salinity (ppt): 10.87	Temperature (C): 16.89
Dissolved Oxygen (mg/l): 10.8	Sediment Silt-Clay (%): 0.69	Total Carbon (%): 0.03
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	0.93	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	14360	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	3.81	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	2.23	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	1.39	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	120	0.03600
Ameroculodes species complex	320	0.09200
Amphiporus bioculatus	40	0.00800
Carinoma tremaphoros	80	0.02800
Gemma gemma	40	0.01600
Heteromastus filiformis	80	0.04800
Leitoscoloplos fragilis	40	0.82800
Leitoscoloplos spp. *	80	0.00800
Lepidactylus dytiscus	120	0.16800
Leptocheirus plumulosus	40	0.07200
Macoma balthica	720	0.08800
Macoma mitchelli	120	0.07200
Marenzelleria viridis	12480	2.31600
Micrura leidyi	80	0.03200
Total Abundance w/ Epi.	14360	
Total Abundance w/o Epi.	14360	
Number of Taxa w/ Epi.	13	
Number of Taxa w/o Epi.	13	
Total Biomass w/ Epi.		3.81200
Total Biomass w/o Epi.		3.81200

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Calvert Cliffs Discharge		Station: 006	Rep: 03
Gear: Modified Box Corer		Habitat: High Mesohaline Sand	Date: 09MAY01
		Sampled Area: 0.025 sq.m	Time: 10:01:00
BOTTOM ENVIRONMENT			
Depth (m): 2.5	Salinity (ppt): 10.87	Temperature (C): 16.89	
Dissolved Oxygen (mg/l): 10.8	Sediment Silt-Clay (%): 0.69	Total Carbon (%): 0.03	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value Score
Shannon-Wiener Index	0.93		Pollution Indicative Species Abundance (%) 0.00
Abundance (#/m2)	11920		Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	2.62		Pollution Sensitive Species Abundance (%) 92.62
Carnivore-Omnivore Abundance (%)	2.68		Pollution Sensitive Species Biomass (%) 74.81
Deep Deposit Feeder Abundance (%)	0.34		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Acteocina canaliculata	160		0.02400
Ameroculodes species complex	560		0.08800
Amphiporus bioculatus	40		0.00200
Gemma gemma	40		0.01200
Leitoscoloplos spp.	40		0.00200
Macoma balthica	760		0.26000
Macoma mitchelli	80		0.19200
Marenzelleria viridis	10120		1.67600
Micrura leidyi	120		0.36400
Total Abundance w/ Epi.	11920		
Total Abundance w/o Epi.	11920		
Number of Taxa w/ Epi.	9		
Number of Taxa w/o Epi.	9		
Total Biomass w/ Epi.			2.62000
Total Biomass w/o Epi.			2.62000

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Mainstem	Station: 015	Rep: 01
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 15MAY01
	Sampled Area: 0.025 sq.m	Time: 9:11:00
BOTTOM ENVIRONMENT		
Depth (m): 3.0	Salinity (ppt): 8.74	Temperature (C): 17.77
Dissolved Oxygen (mg/l): 11.6	Sediment Silt-Clay (%): 2.32	Total Carbon (%): 0.07
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	0.89	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	35920	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	7.71	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	0.45	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	1.34	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	200	0.02800
Eteone heteropoda	120	0.03200
Heteromastus filiformis	400	0.01600
Leitoscoloplos fragilis	40	0.10400
Leitoscoloplos spp. *	40	0.00200
Leptocheirus plumulosus	2280	0.51600
Macoma balthica	240	0.04000
Macoma mitchelli	920	1.22400
Marenzelleria viridis	31040	3.88800
Nemertinea	40	1.85600
Streblospio benedicti	600	0.00200
Total Abundance w/ Epi.	35920	
Total Abundance w/o Epi.	35920	
Number of Taxa w/ Epi.	10	
Number of Taxa w/o Epi.	10	
Total Biomass w/ Epi.		7.70800
Total Biomass w/o Epi.		7.70800

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Mainstem	Station: 015	Rep: 02
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 15MAY01
	Sampled Area: 0.025 sq.m	Time: 9:11:00
BOTTOM ENVIRONMENT		
Depth (m): 3.0	Salinity (ppt): 8.74	Temperature (C): 17.77
Dissolved Oxygen (mg/l): 11.6	Sediment Silt-Clay (%): 2.32	Total Carbon (%): 0.07
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.07	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	28400	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	6.48	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	0.56	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	1.55	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	120	0.07200
Eteone foliosa	40	0.24400
Eteone heteropoda	40	0.00800
Gemma gemma	40	0.01200
Glycinde solitaria	40	0.01200
Heteromastus filiformis	400	0.01200
Leitoscoloplos fragilis	40	0.17600
Leptocheirus plumulosus	2920	0.25600
Macoma balthica	440	0.25600
Macoma mitchelli	600	0.43600
Marenzelleria viridis	23320	3.59600
Micrura leidyi	40	1.16000
Mulinia lateralis	40	0.24000
Streblospio benedicti	320	0.00200
Total Abundance w/ Epi.	28400	
Total Abundance w/o Epi.	28400	
Number of Taxa w/ Epi.	14	
Number of Taxa w/o Epi.	14	
Total Biomass w/ Epi.		6.48200
Total Biomass w/o Epi.		6.48200

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Mainstem	Station: 015	Rep: 03
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 15MAY01
	Sampled Area: 0.025 sq.m	Time: 9:11:00
BOTTOM ENVIRONMENT		
Depth (m): 3.0	Salinity (ppt): 8.74	Temperature (C): 17.77
Dissolved Oxygen (mg/l): 11.6	Sediment Silt-Clay (%): 2.32	Total Carbon (%): 0.07
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	0.84	Pollution Indicative Species Abundance (%) 0.84
Abundance (#/m2)	28520	Pollution Indicative Species Biomass (%) 0.09
Biomass (g/m2)	6.88	Pollution Sensitive Species Abundance (%) 88.22
Carnivore-Omnivore Abundance (%)	0.84	Pollution Sensitive Species Biomass (%) 47.94
Deep Deposit Feeder Abundance (%)	0.98	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	40	0.07200
Eteone foliosa	40	0.00200
Eteone heteropoda	120	0.00400
Gemma gemma	40	0.00800
Heteromastus filiformis	280	0.00400
Leptocheirus plumulosus	1360	0.28400
Macoma balthica	240	0.00800
Macoma mitchelli	1280	3.07600
Marenzelleria viridis	24920	3.29200
Neanthes succinea	40	0.06800
Petricola pholadiformis	40	0.06400
Streblospio benedicti	120	0.00200
Total Abundance w/ Epi.	28520	
Total Abundance w/o Epi.	28520	
Number of Taxa w/ Epi.	12	
Number of Taxa w/o Epi.	12	
Total Biomass w/ Epi.		6.88400
Total Biomass w/o Epi.		6.88400

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patapsco & Back Rivers	Station: 022	Rep: 01	
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 08MAY01	
	Sampled Area: 0.022 sq.m	Time: 11:40:00	
BOTTOM ENVIRONMENT			
Depth (m): 5.6	Salinity (ppt): 5.55	Temperature (C): 18.35	
Dissolved Oxygen (mg/l): 8.8	Sediment Silt-Clay (%): 91.30	Total Carbon (%): 3.55	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	0.58	Pollution Indicative Species Abundance (%)	1.72
Abundance (#/m2)	18270	Pollution Indicative Species Biomass (%)	2.81
Biomass (g/m2)	6.56	Pollution Sensitive Species Abundance (%)	94.33
Carnivore-Omnivore Abundance (%)	4.43	Pollution Sensitive Species Biomass (%)	29.85
Deep Deposit Feeder Abundance (%)	0.74		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Eteone heteropoda	270	0.04950	
Heteromastus filiformis	135	0.00225	
Leptocheirus plumulosus	45	0.00900	
Macoma balthica	450	0.07200	
Marenzelleria viridis	16785	1.88550	
Mulinia lateralis	45	0.13500	
Neanthes succinea	540	4.40550	
Total Abundance w/ Epi.	18270		
Total Abundance w/o Epi.	18270		
Number of Taxa w/ Epi.	7		
Number of Taxa w/o Epi.	7		
Total Biomass w/ Epi.		6.55875	
Total Biomass w/o Epi.		6.55875	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 022	Rep: 02
Gear: Wildco Box Corer		Habitat: Low Mesohaline	Date: 08MAY01
		Sampled Area: 0.022 sq.m	Time: 11:40:00
BOTTOM ENVIRONMENT			
Depth (m): 5.6	Salinity (ppt): 5.55	Temperature (C): 18.35	
Dissolved Oxygen (mg/l): 8.8	Sediment Silt-Clay (%): 91.30	Total Carbon (%): 3.55	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value Score
Shannon-Wiener Index	0.82		Pollution Indicative Species Abundance (%) 2.77
Abundance (#/m2)	16245		Pollution Indicative Species Biomass (%) 1.60
Biomass (g/m2)	7.86		Pollution Sensitive Species Abundance (%) 89.47
Carnivore-Omnivore Abundance (%)	5.82		Pollution Sensitive Species Biomass (%) 23.02
Deep Deposit Feeder Abundance (%)	0.28		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	90		0.00225
Eteone heteropoda	450		0.12600
Gammarus daiberi (Epi)	45		0.00225
Leptocheirus plumulosus	630		0.67050
Macoma balthica	315		0.06750
Marenzelleria viridis	14220		1.74150
Neanthes succinea	495		5.24700
Neomysis americana (Epi)	45		0.00450
Tubificoides spp.	45		0.00225
Total Abundance w/ Epi.	16335		
Total Abundance w/o Epi.	16245		
Number of Taxa w/ Epi.	9		
Number of Taxa w/o Epi.	7		
Total Biomass w/ Epi.			7.86375
Total Biomass w/o Epi.			7.85700

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patapsco & Back Rivers	Station: 022	Rep: 03	
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 08MAY01	
	Sampled Area: 0.022 sq.m	Time: 11:40:00	
BOTTOM ENVIRONMENT			
Depth (m): 5.6	Salinity (ppt): 5.55	Temperature (C): 18.35	
Dissolved Oxygen (mg/l): 8.8	Sediment Silt-Clay (%): 91.30	Total Carbon (%): 3.55	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	1.22	Pollution Indicative Species Abundance (%)	5.05
Abundance (#/m2)	9810	Pollution Indicative Species Biomass (%)	8.46
Biomass (g/m2)	5.77	Pollution Sensitive Species Abundance (%)	84.40
Carnivore-Omnivore Abundance (%)	10.55	Pollution Sensitive Species Biomass (%)	18.33
Deep Deposit Feeder Abundance (%)	0.46		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	90	0.00450	
Eteone heteropoda	360	0.05850	
Gammarus daiberi (Epi)	45	0.00900	
Gemma gemma	45	0.00225	
Heteromastus filiformis	45	0.01350	
Leptocheirus plumulosus	90	0.08100	
Macoma balthica	360	0.22500	
Macoma mitchelli	90	0.02250	
Marenzelleria viridis	7920	0.83250	
Mulinia lateralis	90	0.42750	
Neanthes succinea	675	4.09950	
Streblospio benedicti	45	0.00225	
Total Abundance w/ Epi.	9855		
Total Abundance w/o Epi.	9810		
Number of Taxa w/ Epi.	12		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		5.77800	
Total Biomass w/o Epi.		5.76900	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patapsco & Back Rivers	Station: 023	Rep: 01	
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 08MAY01	
	Sampled Area: 0.022 sq.m	Time: 10:34:00	
BOTTOM ENVIRONMENT			
Depth (m): 6.6	Salinity (ppt): 5.59	Temperature (C): 18.01	
Dissolved Oxygen (mg/l): 8.8	Sediment Silt-Clay (%): 85.90	Total Carbon (%): 2.69	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	2.62	Pollution Indicative Species Abundance (%)	5.69
Abundance (#/m2)	5535	Pollution Indicative Species Biomass (%)	1.86
Biomass (g/m2)	6.03	Pollution Sensitive Species Abundance (%)	23.58
Carnivore-Omnivore Abundance (%)	12.20	Pollution Sensitive Species Biomass (%)	22.74
Deep Deposit Feeder Abundance (%)	6.50		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	405	0.06300	
Carinoma tremaphoros	45	0.27000	
Eteone heteropoda	270	0.09000	
Heteromastus filiformis	180	0.22500	
Leptocheirus plumulosus	2430	1.18800	
Littoridinops tenuipes (Epi)	45	0.02250	
Macoma balthica	990	1.29600	
Macoma mitchelli	315	1.62450	
Marenzelleria viridis	315	0.07650	
Mulinia lateralis	45	0.02250	
Neanthes succinea	360	1.16100	
Neomysis americana (Epi)	45	0.04050	
Tubificoides spp.	180	0.01800	
Total Abundance w/ Epi.	5625		
Total Abundance w/o Epi.	5535		
Number of Taxa w/ Epi.	13		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		6.09750	
Total Biomass w/o Epi.		6.03450	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patapsco & Back Rivers	Station: 023	Rep: 02	
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 08MAY01	
	Sampled Area: 0.022 sq.m	Time: 10:34:00	
BOTTOM ENVIRONMENT			
Depth (m): 6.6	Salinity (ppt): 5.59	Temperature (C): 18.01	
Dissolved Oxygen (mg/l): 8.8	Sediment Silt-Clay (%): 85.90	Total Carbon (%): 2.69	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	3.09	Pollution Indicative Species Abundance (%)	14.73
Abundance (#/m2)	5805	Pollution Indicative Species Biomass (%)	20.57
Biomass (g/m2)	6.97	Pollution Sensitive Species Abundance (%)	31.01
Carnivore-Omnivore Abundance (%)	16.28	Pollution Sensitive Species Biomass (%)	35.78
Deep Deposit Feeder Abundance (%)	7.75		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	720	0.09450	
Carinoma tremaphoros	45	0.00225	
Eteone heteropoda	540	0.06300	
Heteromastus filiformis	360	0.28800	
Leptocheirus plumulosus	1350	1.05750	
Macoma balthica	1125	1.87650	
Macoma mitchelli	225	0.32400	
Marenzelleria viridis	675	0.61650	
Mulinia lateralis	270	1.36800	
Neanthes succinea	360	1.27350	
Neomysis americana (Epi)	45	0.00225	
Streblospio benedicti	45	0.00225	
Tubificoides spp.	90	0.00225	
Total Abundance w/ Epi.	5850		
Total Abundance w/o Epi.	5805		
Number of Taxa w/ Epi.	13		
Number of Taxa w/o Epi.	12		
Total Biomass w/ Epi.		6.97050	
Total Biomass w/o Epi.		6.96825	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patapsco & Back Rivers	Station: 023	Rep: 03	
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 08MAY01	
	Sampled Area: 0.022 sq.m	Time: 10:34:00	
BOTTOM ENVIRONMENT			
Depth (m): 6.6	Salinity (ppt): 5.59	Temperature (C): 18.01	
Dissolved Oxygen (mg/l): 8.8	Sediment Silt-Clay (%): 85.90	Total Carbon (%): 2.69	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	2.53	Pollution Indicative Species Abundance (%)	3.94
Abundance (#/m2)	5715	Pollution Indicative Species Biomass (%)	6.90
Biomass (g/m2)	6.78	Pollution Sensitive Species Abundance (%)	29.92
Carnivore-Omnivore Abundance (%)	7.87	Pollution Sensitive Species Biomass (%)	29.40
Deep Deposit Feeder Abundance (%)	4.72		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	495	0.05400	
Eteone heteropoda	135	0.03600	
Gammarus daiberi (Epi)	45	0.03150	
Heteromastus filiformis	135	0.09900	
Leptocheirus plumulosus	2475	1.56150	
Littoridinops tenuipes (Epi)	45	0.01350	
Macoma balthica	1170	1.75500	
Macoma mitchelli	225	0.78300	
Marenzelleria viridis	540	0.23850	
Mulinia lateralis	45	0.42750	
Neanthes succinea	315	1.80000	
Neomysis americana (Epi)	90	0.02700	
Streblospio benedicti	45	0.00450	
Tubificoides spp.	135	0.02250	
Total Abundance w/ Epi.	5895		
Total Abundance w/o Epi.	5715		
Number of Taxa w/ Epi.	14		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		6.85350	
Total Biomass w/o Epi.		6.78150	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Mainstem	Station: 024	Rep: 01
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 08MAY01
	Sampled Area: 0.022 sq.m	Time: 8:25:00
BOTTOM ENVIRONMENT		
Depth (m): 7.7	Salinity (ppt): 7.05	Temperature (C): 15.92
Dissolved Oxygen (mg/l): 10.5	Sediment Silt-Clay (%): 69.58	Total Carbon (%): 3.56
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	2.32	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	10710	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	47.40	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	5.88	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	7.98	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	225	0.12150
Carinoma tremaphoros	45	0.14400
Eteone heteropoda	45	0.02250
Heteromastus filiformis	180	0.35550
Leptocheirus plumulosus	4410	1.54350
Macoma balthica	2835	39.85200
Marenzelleria viridis	180	0.04050
Mya arenaria	45	2.92050
Neanthes succinea	540	2.28600
Streblospio benedicti	1530	0.09450
Tubificoides spp.	675	0.02250
Total Abundance w/ Epi.	10710	
Total Abundance w/o Epi.	10710	
Number of Taxa w/ Epi.	11	
Number of Taxa w/o Epi.	11	
Total Biomass w/ Epi.		47.40300
Total Biomass w/o Epi.		47.40300

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Mainstem	Station: 024	Rep: 02
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 08MAY01
	Sampled Area: 0.022 sq.m	Time: 8:25:00
BOTTOM ENVIRONMENT		
Depth (m): 7.7	Salinity (ppt): 7.05	Temperature (C): 15.92
Dissolved Oxygen (mg/l): 10.5	Sediment Silt-Clay (%): 69.58	Total Carbon (%): 3.56
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.92	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	10215	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	15.92	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	5.73	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	2.64	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	45	0.02700
Carinoma tremaphoros	90	0.18900
Gammarus daiberi (Epi)	45	0.03150
Heteromastus filiformis	90	0.01350
Leptocheirus plumulosus	5310	2.83950
Macoma balthica	2790	10.94400
Marenzelleria viridis	90	0.02700
Micrura leidyi	45	0.01350
Mya arenaria	45	0.01350
Neanthes succinea	450	1.78200
Streblospio benedicti	1080	0.05400
Tubificoides spp.	180	0.01800
Total Abundance w/ Epi.	10260	
Total Abundance w/o Epi.	10215	
Number of Taxa w/ Epi.	12	
Number of Taxa w/o Epi.	11	
Total Biomass w/ Epi.		15.95250
Total Biomass w/o Epi.		15.92100

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Mainstem	Station: 024	Rep: 03
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 08MAY01
	Sampled Area: 0.022 sq.m	Time: 8:25:00
BOTTOM ENVIRONMENT		
Depth (m): 7.7	Salinity (ppt): 7.05	Temperature (C): 15.92
Dissolved Oxygen (mg/l): 10.5	Sediment Silt-Clay (%): 69.58	Total Carbon (%): 3.56
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	2.24	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	11880	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	10.85	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	6.06	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	5.68	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	315	0.08550
Carinoma tremaphoros	90	0.06300
Eteone heteropoda	180	0.05400
Geukensia demissa (Epi)	45	0.01800
Glycinde solitaria	45	0.00450
Heteromastus filiformis	45	0.05850
Leptocheirus plumulosus	5400	2.61000
Macoma balthica	3330	5.70600
Marenzelleria viridis	450	0.33750
Neanthes succinea	405	1.86300
Streblospio benedicti	990	0.04050
Tubificoides spp.	630	0.02250
Total Abundance w/ Epi.	11925	
Total Abundance w/o Epi.	11880	
Number of Taxa w/ Epi.	12	
Number of Taxa w/o Epi.	11	
Total Biomass w/ Epi.		10.86300
Total Biomass w/o Epi.		10.84500

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Upper Western Shore	Station: 026	Rep: 01
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 08MAY01
	Sampled Area: 0.022 sq.m	Time: 9:28:00
BOTTOM ENVIRONMENT		
Depth (m): 4.8	Salinity (ppt): 2.92	Temperature (C): 17.54
Dissolved Oxygen (mg/l): 9.3	Sediment Silt-Clay (%): 82.10	Total Carbon (%): 3.75
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.73	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	8460	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	22.30	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	0.53	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	7.45	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	180	0.00900
Carinoma tremaphoros	45	0.00450
Edotea triloba (Epi)	90	0.00900
Gammarus daiberi (Epi)	315	0.03600
Leptocheirus plumulosus	3285	0.92700
Macoma balthica	405	0.00225
Marenzelleria viridis	3870	2.00250
Rangia cuneata	45	19.33200
Tubificoides spp.	630	0.01800
Total Abundance w/ Epi.	8865	
Total Abundance w/o Epi.	8460	
Number of Taxa w/ Epi.	9	
Number of Taxa w/o Epi.	7	
Total Biomass w/ Epi.		22.34025
Total Biomass w/o Epi.		22.29525

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Upper Western Shore	Station: 026	Rep: 02
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 08MAY01
	Sampled Area: 0.022 sq.m	Time: 9:28:00
BOTTOM ENVIRONMENT		
Depth (m): 4.8	Salinity (ppt): 2.92	Temperature (C): 17.54
Dissolved Oxygen (mg/l): 9.3	Sediment Silt-Clay (%): 82.10	Total Carbon (%): 3.75
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.55	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	6660	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	9.21	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	2.03	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	2.70	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	450	0.01350
Chironomidae		0.00225
Coelotanypus spp.	45	0.03150
Gammarus daiberi (Epi)	405	0.01800
Leptocheirus plumulosus	4185	0.90900
Marenzelleria viridis	1620	1.06200
Neanthes succinea	45	0.04050
Polypedilum halterale group	45	
Rangia cuneata	90	7.14600
Tubificoides spp.	180	0.00225
Total Abundance w/ Epi.	7065	
Total Abundance w/o Epi.	6660	
Number of Taxa w/ Epi.	9	
Number of Taxa w/o Epi.	8	
Total Biomass w/ Epi.		9.22500
Total Biomass w/o Epi.		9.20700

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Upper Western Shore	Station: 026	Rep: 03
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 08MAY01
	Sampled Area: 0.022 sq.m	Time: 9:28:00
BOTTOM ENVIRONMENT		
Depth (m): 4.8	Salinity (ppt): 2.92	Temperature (C): 17.54
Dissolved Oxygen (mg/l): 9.3	Sediment Silt-Clay (%): 82.10	Total Carbon (%): 3.75
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.96	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	7380	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	20.43	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	2.44	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	7.93	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	315	0.00225
Carinoma tremaphoros	45	0.31500
Cyathura polita	135	0.42300
Gammarus daiberi (Epi)	225	0.02250
Heteromastus filiformis	45	0.00225
Leptocheirus plumulosus	4500	0.82800
Macoma balthica	405	0.02250
Macoma mitchelli	135	0.11700
Marenzelleria viridis	1125	1.30500
Rangia cuneata	135	17.39250
Tubificoides spp.	540	0.02250
Total Abundance w/ Epi.	7605	
Total Abundance w/o Epi.	7380	
Number of Taxa w/ Epi.	11	
Number of Taxa w/o Epi.	10	
Total Biomass w/ Epi.		20.45250
Total Biomass w/o Epi.		20.43000

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Upper Eastern Shore		Station: 029	Rep: 01
Gear: Wildco Box Corer		Habitat: Oligohaline	Date: 07MAY01
		Sampled Area: 0.022 sq.m	Time: 9:25:00
BOTTOM ENVIRONMENT			
Depth (m): 5.5	Salinity (ppt): 0.32	Temperature (C): 19.48	
Dissolved Oxygen (mg/l): 7.5	Sediment Silt-Clay (%): 73.78	Total Carbon (%): 2.02	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value Score
Shannon-Wiener Index	1.65		Oligohaline Pollution Indicative Spp. Abund. 15.34
Abundance (#/m2)	15255		Tolerance Score 7.01
Deep Deposit Feeder Abundance (%)	2.36		Oligohaline Pollution Sensitive Spp. Abund. 67.26
Carnivore-Omnivore Abundance (%)	13.27		Tanypodinae/Chironomidae Abundance Ratio 18.18
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Apocorophium lacustre (Epi)	225		0.02700
Chironomidae			0.08550
Cyathura polita	45		0.04500
Gammarus daiberi (Epi)	585		0.12600
Hobsonia florida	1305		0.31950
Imm. Tubificid w/o Cap. Chaete *	135		
Limnodrilus hoffmeisteri	45		
Marenzelleria viridis	10260		2.70450
Oligochaeta			0.00225
Polypedilum halterale group	1620		
Procladius spp.	360		
Rangia cuneata	1305		106.94700
Tubificoides spp.	180		0.00225
Total Abundance w/ Epi.	16065		
Total Abundance w/o Epi.	15255		
Number of Taxa w/ Epi.	10		
Number of Taxa w/o Epi.	8		
Total Biomass w/ Epi.			110.25900
Total Biomass w/o Epi.			110.10600

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATION

Watershed: Upper Eastern Shore		Station: 029	Rep: 02
Gear: Wildco Box Corer		Habitat: Oligohaline	Date: 07MAY01
		Sampled Area: 0.022 sq.m	Time: 9:25:00
BOTTOM ENVIRONMENT			
Depth (m): 5.5	Salinity (ppt): 0.32	Temperature (C): 19.48	
Dissolved Oxygen (mg/l): 7.5	Sediment Silt-Clay (%): 73.78	Total Carbon (%): 2.02	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.68	Oligohaline Pollution Indicative Spp. Abund.	6.47
Abundance (#/m2)	12510	Tolerance Score	6.26
Deep Deposit Feeder Abundance (%)	3.60	Oligohaline Pollution Sensitive Spp. Abund.	64.75
Carnivore-Omnivore Abundance (%)	3.96	Tanypodinae/Chironomidae Abundance Ratio	25.00
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	45		0.00450
Apocorophium lacustre (Epi)	45		0.00225
Carinoma tremaphoros	45		0.00225
Chiridotea almyra	45		0.00450
Chironomidae			0.04500
Coelotanypus spp.	45		0.02250
Cyathura polita	45		0.05850
Gammarus daiberi (Epi)	360		0.17550
Hobsonia florida	1080		0.13950
Imm. Tubificid w/o Cap. Chaete *	90		
Limnodrilus hoffmeisteri	45		
Marenzelleria viridis	8055		2.16900
Oligochaeta			0.00225
Polypedilum halterale group	270		
Procladius spp.	45		
Rangia cuneata	2385		151.02900
Tubificoides spp.	315		0.01350
Total Abundance w/ Epi.	12915		
Total Abundance w/o Epi.	12510		
Number of Taxa w/ Epi.	14		
Number of Taxa w/o Epi.	12		
Total Biomass w/ Epi.			153.66825
Total Biomass w/o Epi.			153.49050

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Upper Eastern Shore		Station: 029	Rep: 03
Gear: Wildco Box Corer		Habitat: Oligohaline	Date: 07MAY01
		Sampled Area: 0.022 sq.m	Time: 9:25:00
BOTTOM ENVIRONMENT			
Depth (m): 5.5	Salinity (ppt): 0.32	Temperature (C): 19.48	
Dissolved Oxygen (mg/l): 7.5	Sediment Silt-Clay (%): 73.78	Total Carbon (%): 2.02	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.80	Oligohaline Pollution Indicative Spp. Abund.	15.43
Abundance (#/m2)	8460	Tolerance Score	6.72
Deep Deposit Feeder Abundance (%)	3.72	Oligohaline Pollution Sensitive Spp. Abund.	65.43
Carnivore-Omnivore Abundance (%)	12.23	Tanypodinae/Chironomidae Abundance Ratio	9.09
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Apocorophium lacustre (Epi)	45		0.00225
Chironomidae			0.05850
Cyathura polita	45		0.00225
Gammarus daiberi (Epi)	900		0.55800
Hobsonia florida	585		0.11250
Imm. Tubificid w/o Cap. Chaete	135		
Leptocheirus plumulosus	90		0.02250
Marenzelleria viridis	5535		1.81350
Oligochaeta			0.00225
Parachironomus monochromus/tenuicadus	90		
Polypedilum halterale group	810		
Procladius spp.	90		
Rangia cuneata	900		91.02150
Tubificoides spp.	180		0.01800
Total Abundance w/ Epi.	9405		
Total Abundance w/o Epi.	8460		
Number of Taxa w/ Epi.	12		
Number of Taxa w/o Epi.	10		
Total Biomass w/ Epi.			93.61125
Total Biomass w/o Epi.			93.05100

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River		Station: 036	Rep: 01
Gear: Wildco Box Corer		Habitat: Tidal Freshwater	Date: 10MAY01
		Sampled Area: 0.022 sq.m	Time: 8:18:00
BOTTOM ENVIRONMENT			
Depth (m): 3.1	Salinity (ppt): 0.13	Temperature (C): 22.37	
Dissolved Oxygen (mg/l): 6.1	Sediment Silt-Clay (%): 73.57	Total Carbon (%): 2.5	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.95		
Abundance (#/m2)	4905	T.F. Pollution Indicative Spp. Abund. (%)	40.37
Deep Deposit Feeder Abundance (%)	48.62	Tolerance Score	8.70
Carnivore-Omnivore Abundance (%)	44.95	Limnodrilus Abundance (%)	40.37
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Aulodrilus pigueti	180		
Branchiura sowerbyi	135		0.22500
Chironomidae			0.07200
Chironomidae pupae *	90		0.00450
Chironomus spp.	810		
Coelotanypus spp.	495		0.09900
Corbicula fluminea	315		104.82750
Gammarus spp. (Epi)	45		0.00225
Harnischia spp.	90		
Ilyodrilus templetoni	90		
Imm. Tubificid w/o Cap. Chaete *	1890		
Limnodrilus hoffmeisteri	90		
Oligochaeta			0.10800
Polypedilum halterale group	360		
Procladius spp.	180		
Stictochironomus caffarius	90		
Tanytarsus spp.	90		
Total Abundance w/ Epi.	4950		
Total Abundance w/o Epi.	4905		
Number of Taxa w/ Epi.	13		
Number of Taxa w/o Epi.	12		
Total Biomass w/ Epi.			105.33825
Total Biomass w/o Epi.			105.33600

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River		Station: 036	Rep: 02
Gear: Wildco Box Corer		Habitat: Tidal Freshwater	Date: 10MAY01
		Sampled Area: 0.022 sq.m	Time: 8:18:00
BOTTOM ENVIRONMENT			
Depth (m): 3.1	Salinity (ppt): 0.13	Temperature (C): 22.37	
Dissolved Oxygen (mg/l): 6.1	Sediment Silt-Clay (%): 73.57	Total Carbon (%): 2.5	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.67		51.85
Abundance (#/m2)	3645	T.F. Pollution Indicative Spp. Abund. (%)	9.07
Deep Deposit Feeder Abundance (%)	56.79	Tolerance Score	51.85
Carnivore-Omnivore Abundance (%)	34.57	Limnodrilus Abundance (%)	
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Branchiura sowerbyi	90	0.24750	
Chironomidae		0.03600	
Chironomus spp.	360		
Coelotanypus spp.	360	0.13500	
Corbicula fluminea	225	79.95150	
Gammarus spp. (Epi)	45	0.01800	
Imm. Tubificid w/ Cap. Chaete	90		
Imm. Tubificid w/o Cap. Chaete *	1620		
Limnodrilus hoffmeisteri	270		
Marenzelleria viridis	45	0.00225	
Musculium spp.	45	0.00225	
Oligochaeta		0.18450	
Polypedilum halterale group	360		
Procladius spp.	180		
Total Abundance w/ Epi.	3690		
Total Abundance w/o Epi.	3645		
Number of Taxa w/ Epi.	11		
Number of Taxa w/o Epi.	10		
Total Biomass w/ Epi.		80.57700	
Total Biomass w/o Epi.		80.55900	

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River		Station: 036	Rep: 03
Gear: Wildco Box Corer		Habitat: Tidal Freshwater	Date: 10MAY01
		Sampled Area: 0.022 sq.m	Time: 8:18:00
BOTTOM ENVIRONMENT			
Depth (m): 3.1	Salinity (ppt): 0.13	Temperature (C): 22.37	
Dissolved Oxygen (mg/l): 6.1	Sediment Silt-Clay (%): 73.57	Total Carbon (%): 2.5	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.90		
Abundance (#/m2)	2295	T.F. Pollution Indicative Spp. Abund. (%)	27.45
Deep Deposit Feeder Abundance (%)	45.10	Tolerance Score	8.71
Carnivore-Omnivore Abundance (%)	50.98	Limnodrilus Abundance (%)	27.45
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Amnicola limosa (Epi)	180		0.27000
Arcteonais lomondi	45		
Aulodrilus pigueti	45		
Branchiura sowerbyi	270		0.82800
Chironomidae			0.08100
Chironomus spp.	540		
Coelotanypus spp.	180		0.02700
Corbicula fluminea	90		31.21200
Enchytraeidae	45		
Gammarus spp. (Epi)	90		0.02700
Harnischia spp.	270		
Imm. Tubificid w/o Cap. Chaete	630		
Oligochaeta			0.46575
Polypedilum halterale group	90		
Procladius spp.	90		
Total Abundance w/ Epi.	2565		
Total Abundance w/o Epi.	2295		
Number of Taxa w/ Epi.	13		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.			32.91075
Total Biomass w/o Epi.			32.61375

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River		Station: 040	Rep: 01
Gear: Wildco Box Corer		Habitat: Oligohaline	Date: 10MAY01
		Sampled Area: 0.022 sq.m	Time: 12:50:00
BOTTOM ENVIRONMENT			
Depth (m): 8.0	Salinity (ppt): 2.44	Temperature (C): 19.39	
Dissolved Oxygen (mg/l): 7.2	Sediment Silt-Clay (%): 97.09	Total Carbon (%): 2.61	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value Score
Shannon-Wiener Index	2.28		Oligohaline Pollution Indicative Spp. Abund. 24.77
Abundance (#/m2)	4905		Tolerance Score 7.72
Deep Deposit Feeder Abundance (%)	8.26		Oligohaline Pollution Sensitive Spp. Abund. 27.52
Carnivore-Omnivore Abundance (%)	4.59		Tanypodinae/Chironomidae Abundance Ratio 100.00
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	225		0.01800
Chironomidae			0.00225
Coelotanypus spp.	90		0.03600
Gammarus daiberi (Epi)	495		0.06750
Hobsonia florida	45		0.00225
Leptocheirus plumulosus	585		0.10800
Macoma balthica	2025		0.19350
Marenzelleria viridis	1350		0.80100
Procladius spp.	135		
Rangia cuneata	45		9.51300
Tubificoides spp.	405		0.03150
Total Abundance w/ Epi.	5400		
Total Abundance w/o Epi.	4905		
Number of Taxa w/ Epi.	10		
Number of Taxa w/o Epi.	9		
Total Biomass w/ Epi.			10.77300
Total Biomass w/o Epi.			10.70550

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River	Station: 040	Rep: 02
Gear: Wildco Box Corer	Habitat: Oligohaline	Date: 10MAY01
	Sampled Area: 0.022 sq.m	Time: 12:50:00
BOTTOM ENVIRONMENT		
Depth (m): 8.0	Salinity (ppt): 2.44	Temperature (C): 19.39
Dissolved Oxygen (mg/l): 7.2	Sediment Silt-Clay (%): 97.09	Total Carbon (%): 2.61
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	2.39	Oligohaline Pollution Indicative Spp. Abund. 31.11
Abundance (#/m2)	4050	Tolerance Score 6.56
Deep Deposit Feeder Abundance (%)	2.22	Oligohaline Pollution Sensitive Spp. Abund. 16.67
Carnivore-Omnivore Abundance (%)	8.89	Tanypodinae/Chironomidae Abundance Ratio 100.00
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	450	0.00450
Carinoma tremaphoros	45	0.47250
Chironomidae		0.00225
Coelotanypus spp.	270	0.03150
Gammarus daiberi (Epi)	765	0.08550
Leptocheirus plumulosus	855	0.12600
Macoma balthica	1575	0.04950
Marenzelleria viridis	675	0.72000
Mysidae (Epi)	45	0.00900
Procladius spp.	45	
Rangia cuneata	45	17.67150
Tubificoides spp.	90	0.00225
Total Abundance w/ Epi.	4860	
Total Abundance w/o Epi.	4050	
Number of Taxa w/ Epi.	11	
Number of Taxa w/o Epi.	9	
Total Biomass w/ Epi.		19.17450
Total Biomass w/o Epi.		19.08000

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River	Station: 040	Rep: 03
Gear: Wildco Box Corer	Habitat: Oligohaline	Date: 10MAY01
	Sampled Area: 0.022 sq.m	Time: 12:50:00
BOTTOM ENVIRONMENT		
Depth (m): 8.0	Salinity (ppt): 2.44	Temperature (C): 19.39
Dissolved Oxygen (mg/l): 7.2	Sediment Silt-Clay (%): 97.09	Total Carbon (%): 2.61
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	2.54	Oligohaline Pollution Indicative Spp. Abund. 58.51
Abundance (#/m2)	4230	Tolerance Score 7.37
Deep Deposit Feeder Abundance (%)	26.60	Oligohaline Pollution Sensitive Spp. Abund. 26.60
Carnivore-Omnivore Abundance (%)	11.70	Tanypodinae/Chironomidae Abundance Ratio 100.00
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Chironomidae		0.00225
Coelotanypus spp.	315	0.13500
Cyathura polita	45	0.13500
Gammarus daiberi (Epi)	360	0.03150
Hobsonia florida	90	0.01800
Imm. Tubificid w/o Cap. Chaete	45	
Leptocheirus plumulosus	900	0.04950
Macoma balthica	495	7.61850
Marenzelleria viridis	1125	0.97200
Neomysis americana (Epi)	90	0.01350
Oligochaeta		0.00225
Procladius spp.	135	
Tubificoides spp.	1080	0.04050
Total Abundance w/ Epi.	4680	
Total Abundance w/o Epi.	4230	
Number of Taxa w/ Epi.	11	
Number of Taxa w/o Epi.	9	
Total Biomass w/ Epi.		9.01800
Total Biomass w/o Epi.		8.97300

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River	Station: 043	Rep: 01
Gear: Modified Box Corer	Habitat: Low Mesohaline	Date: 10MAY01
	Sampled Area: 0.025 sq.m	Time: 11:00:00
BOTTOM ENVIRONMENT		
Depth (m): 3.0	Salinity (ppt): 6.33	Temperature (C): 19.41
Dissolved Oxygen (mg/l): 7.1	Sediment Silt-Clay (%): 3.61	Total Carbon (%): 0.15
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.79	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	49640	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	6.71	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	0.64	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	2.42	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	120	0.02800
Apocorophium lacustre (Epi)	1240	0.13200
Chiridotea almyra	40	0.01600
Cyathura polita	80	0.04800
Edotea triloba (Epi)	80	0.02400
Edwardsia elegans	80	0.02800
Gammarus daiberi (Epi)	280	0.02400
Heteromastus filiformis	920	1.43200
Leptocheirus plumulosus	24080	1.61600
Littoridinops tenuipes (Epi)	40	0.01600
Macoma balthica	2360	0.04000
Macoma mitchelli	200	0.30000
Marenzelleria viridis	17720	2.22400
Mya arenaria	40	0.02400
Mytilopsis leucophaeata (Epi)	40	0.04400
Neanthes succinea	120	0.42000
Rangia cuneata	3600	0.51200
Tubificoides spp.	280	0.02000
Turbonilla interrupta (Epi)	40	0.02000
Total Abundance w/ Epi.	51360	
Total Abundance w/o Epi.	49640	
Number of Taxa w/ Epi.	19	
Number of Taxa w/o Epi.	13	
Total Biomass w/ Epi.		6.96800
Total Biomass w/o Epi.		6.70800

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River	Station: 043	Rep: 02
Gear: Modified Box Corer	Habitat: Low Mesohaline	Date: 10MAY01
	Sampled Area: 0.025 sq.m	Time: 11:00:00
BOTTOM ENVIRONMENT		
Depth (m): 3.0	Salinity (ppt): 6.33	Temperature (C): 19.41
Dissolved Oxygen (mg/l): 7.1	Sediment Silt-Clay (%): 3.61	Total Carbon (%): 0.15
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.77	Pollution Indicative Species Abundance (%) 0.00
Abundance (#/m2)	41200	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	72.38	Pollution Sensitive Species Abundance (%) 53.79
Carnivore-Omnivore Abundance (%)	0.58	Pollution Sensitive Species Biomass (%) 94.93
Deep Deposit Feeder Abundance (%)	1.55	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	40	0.00800
Apocorophium lacustre (Epi)	1240	0.19200
Edwardsia elegans	120	0.02000
Gammarus daiberi (Epi)	80	0.01600
Geukensia demissa (Epi)	40	0.00400
Heteromastus filiformis	520	0.78000
Leptocheirus plumulosus	17680	1.52800
Macoma balthica	2040	7.41200
Macoma mitchelli	440	0.84000
Marenzelleria viridis	17160	0.51200
Neanthes succinea	120	0.49200
Rangia cuneata	2960	60.78400
Tubificoides spp.	120	0.00400
Total Abundance w/ Epi.	42560	
Total Abundance w/o Epi.	41200	
Number of Taxa w/ Epi.	13	
Number of Taxa w/o Epi.	10	
Total Biomass w/ Epi.		72.59200
Total Biomass w/o Epi.		72.38000

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River	Station: 043	Rep: 03
Gear: Modified Box Corer	Habitat: Low Mesohaline	Date: 10MAY01
	Sampled Area: 0.025 sq.m	Time: 11:00:00
BOTTOM ENVIRONMENT		
Depth (m): 3.0	Salinity (ppt): 6.33	Temperature (C): 19.41
Dissolved Oxygen (mg/l): 7.1	Sediment Silt-Clay (%): 3.61	Total Carbon (%): 0.15
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.87	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	40400	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	173.42	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	1.19	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	1.78	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	80	0.01200
Apocorophium lacustre (Epi)	1320	0.21200
Carinoma tremaphoros	120	0.45600
Chiridotea almyra	80	0.01600
Cyathura polita	120	0.10400
Edotea triloba (Epi)	120	0.02400
Edwardsia elegans	40	0.00800
Eteone heteropoda	120	0.01200
Gammarus daiberi (Epi)	200	0.01200
Heteromastus filiformis	640	2.08000
Leptocheirus plumulosus	18240	1.34400
Macoma balthica	1960	19.11200
Macoma mitchelli	400	0.44400
Marenzelleria viridis	14880	6.20800
Neomysis americana (Epi)	80	0.01200
Rangia cuneata	3640	143.61200
Tubificoides spp.	80	0.00800
Total Abundance w/ Epi.	42120	
Total Abundance w/o Epi.	40400	
Number of Taxa w/ Epi.	17	
Number of Taxa w/o Epi.	13	
Total Biomass w/ Epi.		173.67600
Total Biomass w/o Epi.		173.41600

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River	Station: 044	Rep: 01	
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 10MAY01	
	Sampled Area: 0.022 sq.m	Time: 11:27:00	
BOTTOM ENVIRONMENT			
Depth (m): 14.1	Salinity (ppt): 6.89	Temperature (C): 18.78	
Dissolved Oxygen (mg/l): 6.9	Sediment Silt-Clay (%): 75.76	Total Carbon (%): 1.72	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	1.68	Pollution Indicative Species Abundance (%)	2.38
Abundance (#/m2)	11340	Pollution Indicative Species Biomass (%)	0.73
Biomass (g/m2)	2.16	Pollution Sensitive Species Abundance (%)	37.30
Carnivore-Omnivore Abundance (%)	0.40	Pollution Sensitive Species Biomass (%)	65.42
Deep Deposit Feeder Abundance (%)	6.35		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	45	0.01350	
Eteone heteropoda	45	0.01350	
Gammarus daiberi (Epi)	135	0.00225	
Gemma gemma	45	0.00225	
Heteromastus filiformis	45	0.00225	
Leptocheirus plumulosus	6030	0.71100	
Macoma balthica	3780	1.15200	
Marenzelleria viridis	450	0.26100	
Neomysis americana (Epi)	135	0.00450	
Streblospio benedicti	225	0.00225	
Tubificoides spp.	675	0.00225	
Total Abundance w/ Epi.	11610		
Total Abundance w/o Epi.	11340		
Number of Taxa w/ Epi.	11		
Number of Taxa w/o Epi.	9		
Total Biomass w/ Epi.		2.16675	
Total Biomass w/o Epi.		2.16000	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River		Station: 044	Rep: 02
Gear: Wildco Box Corer		Habitat: Low Mesohaline	Date: 10MAY01
		Sampled Area: 0.022 sq.m	Time: 11:27:00
BOTTOM ENVIRONMENT			
Depth (m): 14.1		Salinity (ppt): 6.89	Temperature (C): 18.78
Dissolved Oxygen (mg/l): 6.9		Sediment Silt-Clay (%): 75.76	Total Carbon (%): 1.72
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.71		4.02
Abundance (#/m2)	8955	Pollution Indicative Species Abundance (%)	0.05
Biomass (g/m2)	4.34	Pollution Indicative Species Biomass (%)	17.59
Carnivore-Omnivore Abundance (%)	1.01	Pollution Sensitive Species Abundance (%)	83.77
Deep Deposit Feeder Abundance (%)	13.57	Pollution Sensitive Species Biomass (%)	
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	45	0.01800	
Gammarus daiberi (Epi)	180	0.00900	
Leptocheirus plumulosus	5670	0.17550	
Macoma balthica	945	3.41550	
Marenzelleria viridis	630	0.22050	
Neanthes succinea	90	0.48600	
Neomysis americana (Epi)	45	0.02700	
Streblospio benedicti	360	0.00225	
Tubificoides spp.	1215	0.02250	
Total Abundance w/ Epi.	9180		
Total Abundance w/o Epi.	8955		
Number of Taxa w/ Epi.	9		
Number of Taxa w/o Epi.	7		
Total Biomass w/ Epi.		4.37625	
Total Biomass w/o Epi.		4.34025	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River		Station: 044	Rep: 03
Gear: Wildco Box Corer		Habitat: Low Mesohaline	Date: 10MAY01
		Sampled Area: 0.022 sq.m	Time: 11:27:00
BOTTOM ENVIRONMENT			
Depth (m): 14.1		Salinity (ppt): 6.89	Temperature (C): 18.78
Dissolved Oxygen (mg/l): 6.9		Sediment Silt-Clay (%): 75.76	Total Carbon (%): 1.72
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:		Condition: Not Applicable	# Attributes Scored: 0
	Value	Score	Value Score
Shannon-Wiener Index	1.60		Pollution Indicative Species Abundance (%) 0.54
Abundance (#/m2)	16605		Pollution Indicative Species Biomass (%) 0.27
Biomass (g/m2)	5.09		Pollution Sensitive Species Abundance (%) 49.86
Carnivore-Omnivore Abundance (%)	0.54		Pollution Sensitive Species Biomass (%) 57.77
Deep Deposit Feeder Abundance (%)	6.78		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	135		0.00450
Carinoma tremaphoros	45		0.02250
Gammarus daiberi (Epi)	225		0.00450
Heteromastus filiformis	45		0.16200
Leptocheirus plumulosus	6840		0.59400
Macoma balthica	7965		2.74500
Macoma mitchelli	45		1.26000
Marenzelleria viridis	315		0.19800
Mulinia lateralis	45		0.00900
Neanthes succinea	45		0.04950
Streblospio benedicti	45		0.00450
Tubificoides spp.	1080		0.04500
Total Abundance w/ Epi.	16830		
Total Abundance w/o Epi.	16605		
Number of Taxa w/ Epi.	12		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.			5.09850
Total Biomass w/o Epi.			5.09400

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Morgantown Discharge		Station: 047	Rep: 01
Gear: Modified Box Corer		Habitat: Low Mesohaline	Date: 10MAY01
		Sampled Area: 0.025 sq.m	Time: 10:45:00
BOTTOM ENVIRONMENT			
Depth (m): 2.5	Salinity (ppt): 6.87	Temperature (C): 18.80	
Dissolved Oxygen (mg/l): 7.2	Sediment Silt-Clay (%): 6.37	Total Carbon (%): 0.14	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.72		Pollution Indicative Species Abundance (%) 0.25
Abundance (#/m2)	64960		Pollution Indicative Species Biomass (%) 0.02
Biomass (g/m2)	106.36		Pollution Sensitive Species Abundance (%) 59.24
Carnivore-Omnivore Abundance (%)	1.23		Pollution Sensitive Species Biomass (%) 91.21
Deep Deposit Feeder Abundance (%)	2.16		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Apocorophium lacustre (Epi)	560		0.05200
Balanus improvisus (Epi)	40		0.00800
Carinoma tremaphoros	80		0.25200
Edotea triloba (Epi)	160		0.13200
Eteone heteropoda	120		0.00800
Gammarus daiberi (Epi)	40		0.00400
Geukensia demissa (Epi)	40		0.00200
Hargeria rapax	40		0.00200
Heteromastus filiformis	1040		1.92400
Hydrobia truncata (Epi)	40		0.00200
Leptocheirus plumulosus	23680		2.50000
Macoma balthica	5680		25.66400
Macoma mitchelli	520		0.00800
Marenzelleria viridis	31960		3.13600
Micrura leidyi	40		1.13600
Neanthes succinea	560		3.50000
Oligochaeta			0.00200
Paranais littoralis	40		
Rangia cuneata	840		68.21200
Sayella chesapeakea (Epi)	40		0.00400
Streblospio benedicti	40		0.01200
Tubificoides spp.	320		0.00800
Total Abundance w/ Epi.	65880		
Total Abundance w/o Epi.	64960		
Number of Taxa w/ Epi.	21		
Number of Taxa w/o Epi.	14		
Total Biomass w/ Epi.			106.56800
Total Biomass w/o Epi.			106.36400

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Morgantown Discharge	Station: 047	Rep: 02
Gear: Modified Box Corer	Habitat: Low Mesohaline	Date: 10MAY01
	Sampled Area: 0.025 sq.m	Time: 10:45:00
BOTTOM ENVIRONMENT		
Depth (m): 2.5	Salinity (ppt): 6.87	Temperature (C): 18.80
Dissolved Oxygen (mg/l): 7.2	Sediment Silt-Clay (%): 6.37	Total Carbon (%): 0.14
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.63	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	55360	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	43.75	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	1.01	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	1.73	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	40	0.00400
Apocorophium lacustre (Epi)	240	0.05200
Carinoma tremaphoros	40	0.08800
Chironomidae		0.00200
Cryptochironomus spp.	40	
Edotea triloba (Epi)	160	0.03600
Edwardsia elegans	80	0.00400
Heteromastus filiformis	640	0.86400
Leptocheirus plumulosus	17040	1.86800
Macoma balthica	5320	19.28400
Macoma mitchelli	400	0.57200
Marenzelleria viridis	30720	11.46400
Micrura leidyi	80	1.34800
Mucrogammarus mucronatus (Epi)	120	0.01200
Mya arenaria	80	5.92800
Neanthes succinea	320	2.31200
Polydora cornuta	40	0.00400
Rangia cuneata	200	0.00200
Tubificoides spp.	320	0.00200
Total Abundance w/ Epi.	55880	
Total Abundance w/o Epi.	55360	
Number of Taxa w/ Epi.	18	
Number of Taxa w/o Epi.	15	
Total Biomass w/ Epi.		43.84600
Total Biomass w/o Epi.		43.74600

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Morgantown Discharge	Station: 047	Rep: 03
Gear: Modified Box Corer	Habitat: Low Mesohaline	Date: 10MAY01
	Sampled Area: 0.025 sq.m	Time: 10:45:00
BOTTOM ENVIRONMENT		
Depth (m): 2.5	Salinity (ppt): 6.87	Temperature (C): 18.80
Dissolved Oxygen (mg/l): 7.2	Sediment Silt-Clay (%): 6.37	Total Carbon (%): 0.14
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.47	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	42560	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	19.38	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	0.85	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	2.44	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Apocorophium lacustre (Epi)	360	0.02000
Carinoma tremaphoros	40	0.38400
Heteromastus filiformis	960	0.63200
Leptocheirus plumulosus	10720	1.28000
Littoridinops tenuipes (Epi)	40	0.00200
Macoma balthica	3000	0.80400
Macoma mitchelli	200	0.17200
Marenzelleria viridis	27000	10.88800
Micrura leidyi	40	2.26800
Neanthes succinea	280	2.06800
Polydora cornuta	40	0.00400
Rangia cuneata	200	0.87600
Tubificoides spp.	80	0.00200
Total Abundance w/ Epi.	42960	
Total Abundance w/o Epi.	42560	
Number of Taxa w/ Epi.	13	
Number of Taxa w/o Epi.	11	
Total Biomass w/ Epi.		19.40000
Total Biomass w/o Epi.		19.37800

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River	Station: 051	Rep: 01
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 15MAY01
	Sampled Area: 0.025 sq.m	Time: 12:00:00
BOTTOM ENVIRONMENT		
Depth (m): 3.4	Salinity (ppt): 9.63	Temperature (C): 18.56
Dissolved Oxygen (mg/l): 12.4	Sediment Silt-Clay (%): 2.28	Total Carbon (%): 0.09
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	2.41	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	12360	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	1.34	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	2.59	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	13.92	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	80	0.02000
Edwardsia elegans	40	0.01200
Eteone foliosa	40	0.05200
Eteone heteropoda	40	0.00200
Gemma gemma	120	0.01200
Glycinde solitaria	120	0.05600
Haminoea solitaria	40	0.05200
Heteromastus filiformis	1680	0.35600
Leptocheirus plumulosus	160	0.01200
Macoma balthica	640	0.10800
Macoma mitchelli	2880	0.24800
Marenzelleria viridis	5120	0.35600
Micrura leidyi	40	0.00200
Mya arenaria	40	0.00400
Oligochaeta		0.00200
Paranais littoralis	40	
Streblospio benedicti	1280	0.04400
Total Abundance w/ Epi.	12360	
Total Abundance w/o Epi.	12360	
Number of Taxa w/ Epi.	16	
Number of Taxa w/o Epi.	16	
Total Biomass w/ Epi.		1.33800
Total Biomass w/o Epi.		1.33800

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Station: 051		Rep: 02
Watershed: Potomac River	Habitat: High Mesohaline Sand	Date: 15MAY01
Gear: Modified Box Corer	Sampled Area: 0.025 sq.m	Time: 12:00:00
BOTTOM ENVIRONMENT		
Depth (m): 3.4	Salinity (ppt): 9.63	Temperature (C): 18.56
Dissolved Oxygen (mg/l): 12.4	Sediment Silt-Clay (%): 2.28	Total Carbon (%): 0.09
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	2.39	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	17600	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	2.04	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	3.41	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	12.73	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	160	0.07200
Carinoma tremaphoros	40	0.07200
Edwardsia elegans	40	0.00200
Eteone foliosa	120	0.03600
Eteone heteropoda	120	0.00200
Gemma gemma	80	0.02400
Glycinde solitaria	80	0.02000
Haminoea solitaria	40	0.03600
Heteromastus filiformis	2160	0.24000
Leitoscoloplos spp.	40	0.00800
Leptocheirus plumulosus	240	0.04800
Macoma balthica	720	0.12000
Macoma mitchelli	4840	0.53600
Marenzelleria viridis	7080	0.64800
Mulinia lateralis	120	0.08400
Streblospio benedicti	1680	0.08000
Tubificoides spp.	40	0.00800
Total Abundance w/ Epi.	17600	
Total Abundance w/o Epi.	17600	
Number of Taxa w/ Epi.	17	
Number of Taxa w/o Epi.	17	
Total Biomass w/ Epi.		2.03600
Total Biomass w/o Epi.		2.03600

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River	Station: 051	Rep: 03
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 15MAY01
	Sampled Area: 0.025 sq.m	Time: 12:00:00
BOTTOM ENVIRONMENT		
Depth (m): 3.4	Salinity (ppt): 9.63	Temperature (C): 18.56
Dissolved Oxygen (mg/l): 12.4	Sediment Silt-Clay (%): 2.28	Total Carbon (%): 0.09
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	2.41	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	14760	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	2.29	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	4.07	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	19.51	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	80	0.00800
Ameroculodes species complex	40	0.00200
Carinoma tremaphoros	40	0.00200
Edwardsia elegans	280	0.08000
Eteone heteropoda	80	0.00200
Gemma gemma	40	0.00400
Glycinde solitaria	40	0.00200
Hargeria rapax	40	0.00200
Heteromastus filiformis	2800	0.19600
Leptocheirus plumulosus	120	0.02400
Macoma balthica	360	0.09200
Macoma mitchelli	3680	0.67600
Marenzelleria viridis	5600	0.84400
Micrura leidyi	80	0.13600
Mya arenaria	40	0.01200
Pectinaria gouldii	80	0.06800
Phoronis spp.	40	0.06800
Pyramidellidae (Epi)	40	0.01200
Streblospio benedicti	1320	0.06800
Total Abundance w/ Epi.	14800	
Total Abundance w/o Epi.	14760	
Number of Taxa w/ Epi.	19	
Number of Taxa w/o Epi.	18	
Total Biomass w/ Epi.		2.29800
Total Biomass w/o Epi.		2.28600

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River	Station: 052	Rep: 01	
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 15MAY01	
	Sampled Area: 0.022 sq.m	Time: 12:23:00	
BOTTOM ENVIRONMENT			
Depth (m): 13.0	Salinity (ppt): 13.13	Temperature (C): 14.37	
Dissolved Oxygen (mg/l): 1.3	Sediment Silt-Clay (%): 78.78	Total Carbon (%): 2.81	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	1.34	Pollution Indicative Species Abundance (%)	39.68
Abundance (#/m2)	8505	Pollution Indicative Species Biomass (%)	7.32
Biomass (g/m2)	2.70	Pollution Sensitive Species Abundance (%)	55.56
Carnivore-Omnivore Abundance (%)	1.06	Pollution Sensitive Species Biomass (%)	11.48
Deep Deposit Feeder Abundance (%)	2.12		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	135	0.00900	
Carinoma tremaphoros	45	0.97200	
Heteromastus filiformis	180	0.03600	
Macoma balthica	4680	0.29250	
Marenzelleria viridis	45	0.01800	
Neanthes succinea	45	1.17900	
Streblospio benedicti	3375	0.19800	
Total Abundance w/ Epi.	8505		
Total Abundance w/o Epi.	8505		
Number of Taxa w/ Epi.	7		
Number of Taxa w/o Epi.	7		
Total Biomass w/ Epi.		2.70450	
Total Biomass w/o Epi.		2.70450	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River	Station: 052	Rep: 02
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 15MAY01
	Sampled Area: 0.022 sq.m	Time: 12:23:00
BOTTOM ENVIRONMENT		
Depth (m): 13.0	Salinity (ppt): 13.13	Temperature (C): 14.37
Dissolved Oxygen (mg/l): 1.3	Sediment Silt-Clay (%): 78.78	Total Carbon (%): 2.81
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.23	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	7065	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	0.35	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	1.27	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	0.64	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Eteone heteropoda	45	0.00225
Glycinde solitaria	45	0.00225
Heteromastus filiformis	45	0.00225
Macoma balthica	2970	0.17550
Macoma mitchelli	45	0.00900
Marenzelleria viridis	45	0.00450
Streblospio benedicti	3870	0.15300
Total Abundance w/ Epi.	7065	
Total Abundance w/o Epi.	7065	
Number of Taxa w/ Epi.	7	
Number of Taxa w/o Epi.	7	
Total Biomass w/ Epi.		0.34875
Total Biomass w/o Epi.		0.34875

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Potomac River	Station: 052	Rep: 03	
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 15MAY01	
	Sampled Area: 0.022 sq.m	Time: 12:23:00	
BOTTOM ENVIRONMENT			
Depth (m): 13.0	Salinity (ppt): 13.13	Temperature (C): 14.37	
Dissolved Oxygen (mg/l): 1.3	Sediment Silt-Clay (%): 78.78	Total Carbon (%): 2.81	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	1.17	Pollution Indicative Species Abundance (%)	69.49
Abundance (#/m2)	5310	Pollution Indicative Species Biomass (%)	63.59
Biomass (g/m2)	0.44	Pollution Sensitive Species Abundance (%)	28.81
Carnivore-Omnivore Abundance (%)	2.54	Pollution Sensitive Species Biomass (%)	31.28
Deep Deposit Feeder Abundance (%)	0.85		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Eteone heteropoda	90	0.00900	
Heteromastus filiformis	45	0.00900	
Macoma balthica	1485	0.13500	
Micrura leidyi	45	0.01350	
Mya arenaria	45	0.00225	
Streblospio benedicti	3600	0.27000	
Total Abundance w/ Epi.	5310		
Total Abundance w/o Epi.	5310		
Number of Taxa w/ Epi.	6		
Number of Taxa w/o Epi.	6		
Total Biomass w/ Epi.		0.43875	
Total Biomass w/o Epi.		0.43875	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Lower Eastern Shore	Station: 062	Rep: 01	
Gear: Petite Ponar	Habitat: Low Mesohaline	Date: 11MAY01	
	Sampled Area: 0.025 sq.m	Time: 10:30:00	
BOTTOM ENVIRONMENT			
Depth (m): 5.0	Salinity (ppt): 5.07	Temperature (C): 20.73	
Dissolved Oxygen (mg/l): 8.0	Sediment Silt-Clay (%): 90.19	Total Carbon (%): 3.24	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	1.70	Pollution Indicative Species Abundance (%)	0.00
Abundance (#/m2)	22360	Pollution Indicative Species Biomass (%)	0.00
Biomass (g/m2)	3.73	Pollution Sensitive Species Abundance (%)	20.57
Carnivore-Omnivore Abundance (%)	3.58	Pollution Sensitive Species Biomass (%)	80.45
Deep Deposit Feeder Abundance (%)	60.64		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	600	0.04800	
Carinoma tremaphoros	80	0.10000	
Chiridotea almyra	400	0.01200	
Chironomidae		0.00200	
Cryptochironomus spp.	40		
Cyathura polita	280	0.71600	
Edotea triloba (Epi)	200	0.11200	
Gammarus daiberi (Epi)	80	0.02400	
Leptocheirus plumulosus	3080	0.31600	
Macoma balthica	4160	2.21600	
Marenzelleria viridis	160	0.07200	
Neomysis americana (Epi)	280	0.02000	
Tubificoides spp.	13560	0.25200	
Total Abundance w/ Epi.	22920		
Total Abundance w/o Epi.	22360		
Number of Taxa w/ Epi.	12		
Number of Taxa w/o Epi.	9		
Total Biomass w/ Epi.		3.89000	
Total Biomass w/o Epi.		3.73400	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Lower Eastern Shore		Station: 062	Rep: 02
Gear: Petite Ponar		Habitat: Low Mesohaline	Date: 11MAY01
		Sampled Area: 0.025 sq.m	Time: 10:30:00
BOTTOM ENVIRONMENT			
Depth (m): 5.0	Salinity (ppt): 5.07	Temperature (C): 20.73	
Dissolved Oxygen (mg/l): 8.0	Sediment Silt-Clay (%): 90.19	Total Carbon (%): 3.24	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.03		Pollution Indicative Species Abundance (%) 0.00
Abundance (#/m2)	27800		Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	4.70		Pollution Sensitive Species Abundance (%) 8.20
Carnivore-Omnivore Abundance (%)	0.72		Pollution Sensitive Species Biomass (%) 84.21
Deep Deposit Feeder Abundance (%)	82.01		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	400		0.03600
Chironomidae			0.00200
Cryptochironomus spp.	40		
Cyathura polita	160		0.25200
Edotea triloba (Epi)	40		0.01600
Gammarus daiberi (Epi)	40		0.01200
Leptocheirus plumulosus	2280		0.25600
Macoma balthica	1320		3.18800
Marenzelleria viridis	800		0.51600
Melita nitida (Epi)	40		0.01200
Neomysis americana (Epi)	320		0.09200
Tubificoides spp.	22800		0.44800
Total Abundance w/ Epi.	28240		
Total Abundance w/o Epi.	27800		
Number of Taxa w/ Epi.	11		
Number of Taxa w/o Epi.	7		
Total Biomass w/ Epi.			4.83000
Total Biomass w/o Epi.			4.69800

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Lower Eastern Shore		Station: 062	Rep: 03
Gear: Petite Ponar		Habitat: Low Mesohaline	Date: 11MAY01
		Sampled Area: 0.025 sq.m	Time: 10:30:00
BOTTOM ENVIRONMENT			
Depth (m): 5.0	Salinity (ppt): 5.07	Temperature (C): 20.73	
Dissolved Oxygen (mg/l): 8.0	Sediment Silt-Clay (%): 90.19	Total Carbon (%): 3.24	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value Score
Shannon-Wiener Index	2.13		Pollution Indicative Species Abundance (%) 1.67
Abundance (#/m2)	7200		Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	4.10		Pollution Sensitive Species Abundance (%) 22.22
Carnivore-Omnivore Abundance (%)	3.89		Pollution Sensitive Species Biomass (%) 85.38
Deep Deposit Feeder Abundance (%)	44.44		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	120		0.01600
Carinoma tremaphoros	120		0.15600
Chiridotea almyra	40		0.00200
Cyathura polita	120		0.21600
Imm. Tubificid w/o Cap. Chaete	120		
Leptocheirus plumulosus	2120		0.22400
Macoma balthica	1040		3.04800
Marenzelleria viridis	440		0.24000
Neomysis americana (Epi)	280		0.02000
Oligochaeta			0.00200
Tubificoides spp.	3080		0.20000
Total Abundance w/ Epi.	7480		
Total Abundance w/o Epi.	7200		
Number of Taxa w/ Epi.	10		
Number of Taxa w/o Epi.	9		
Total Biomass w/ Epi.			4.12400
Total Biomass w/o Epi.			4.10400

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Choptank River	Station: 064	Rep: 01	
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 11MAY01	
	Sampled Area: 0.022 sq.m	Time: 8:45:00	
BOTTOM ENVIRONMENT			
Depth (m): 11.0	Salinity (ppt): 10.35	Temperature (C): 19.48	
Dissolved Oxygen (mg/l): 7.3	Sediment Silt-Clay (%): 94.04	Total Carbon (%): 1.89	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	1.97	Pollution Indicative Species Abundance (%)	48.62
Abundance (#/m2)	35820	Pollution Indicative Species Biomass (%)	22.97
Biomass (g/m2)	11.03	Pollution Sensitive Species Abundance (%)	8.92
Carnivore-Omnivore Abundance (%)	2.51	Pollution Sensitive Species Biomass (%)	43.89
Deep Deposit Feeder Abundance (%)	6.28		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	315	0.05400	
Amphiporus bioculatus	45	0.01800	
Eteone heteropoda	765	0.35100	
Gammarus daiberi (Epi)	45	0.00900	
Heteromastus filiformis	270	0.02250	
Leptocheirus plumulosus	12240	3.12300	
Leucon americanus	90	0.00900	
Macoma balthica	3195	4.84200	
Macoma mitchelli	180	0.01350	
Mulinia lateralis	270	1.09800	
Neanthes succinea	45	0.36000	
Nemertinea	45	0.00225	
Streblospio benedicti	16380	1.08450	
Tubificoides spp.	1980	0.05400	
Total Abundance w/ Epi.	35865		
Total Abundance w/o Epi.	35820		
Number of Taxa w/ Epi.	14		
Number of Taxa w/o Epi.	13		
Total Biomass w/ Epi.		11.04075	
Total Biomass w/o Epi.		11.03175	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Choptank River	Station: 064	Rep: 02	
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 11MAY01	
	Sampled Area: 0.022 sq.m	Time: 8:45:00	
BOTTOM ENVIRONMENT			
Depth (m): 11.0	Salinity (ppt): 10.35	Temperature (C): 19.48	
Dissolved Oxygen (mg/l): 7.3	Sediment Silt-Clay (%): 94.04	Total Carbon (%): 1.89	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	1.72	Pollution Indicative Species Abundance (%)	47.58
Abundance (#/m2)	35280	Pollution Indicative Species Biomass (%)	10.80
Biomass (g/m2)	21.66	Pollution Sensitive Species Abundance (%)	6.63
Carnivore-Omnivore Abundance (%)	1.28	Pollution Sensitive Species Biomass (%)	73.37
Deep Deposit Feeder Abundance (%)	4.34		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	225	0.00225	
Carinoma tremaphoros	45	0.22950	
Edotea triloba (Epi)	45	0.00225	
Eteone heteropoda	315	0.19350	
Heteromastus filiformis	270	0.07200	
Leptocheirus plumulosus	14265	2.64600	
Macoma balthica	2340	15.88995	
Mulinia lateralis	270	0.72000	
Neanthes succinea	90	0.45000	
Neomysis americana (Epi)	45	0.00225	
Streblospio benedicti	16200	1.42650	
Tubificoides spp.	1260	0.02700	
Total Abundance w/ Epi.	35370		
Total Abundance w/o Epi.	35280		
Number of Taxa w/ Epi.	12		
Number of Taxa w/o Epi.	10		
Total Biomass w/ Epi.		21.66120	
Total Biomass w/o Epi.		21.65670	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Choptank River	Station: 064	Rep: 03
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 11MAY01
	Sampled Area: 0.022 sq.m	Time: 8:45:00
BOTTOM ENVIRONMENT		
Depth (m): 11.0	Salinity (ppt): 10.35	Temperature (C): 19.48
Dissolved Oxygen (mg/l): 7.3	Sediment Silt-Clay (%): 94.04	Total Carbon (%): 1.89
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.81	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	36405	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	20.48	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	1.61	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	6.67	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	180	0.03150
Eteone heteropoda	450	0.24300
Glycinde solitaria	45	0.02700
Heteromastus filiformis	315	0.14400
Leptocheirus plumulosus	12825	3.39750
Leucon americanus	135	0.00900
Macoma balthica	2070	13.66200
Macoma mitchelli	135	0.00450
Marenzelleria viridis	45	0.02700
Mulinia lateralis	90	0.14850
Neanthes succinea	90	1.52100
Streblospio benedicti	17910	1.18800
Tubificoides spp.	2115	0.07650
Total Abundance w/ Epi.	36405	
Total Abundance w/o Epi.	36405	
Number of Taxa w/ Epi.	13	
Number of Taxa w/o Epi.	13	
Total Biomass w/ Epi.		20.47950
Total Biomass w/o Epi.		20.47950

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Choptank River		Station: 066	Rep: 01
Gear: Wildco Box Corer		Habitat: Oligohaline	Date: 11MAY01
		Sampled Area: 0.022 sq.m	Time: 12:22:00
BOTTOM ENVIRONMENT			
Depth (m): 5.3	Salinity (ppt): 0.73	Temperature (C): 21.47	
Dissolved Oxygen (mg/l): 5.9	Sediment Silt-Clay (%): 67.28	Total Carbon (%): 5.56	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value Score
Shannon-Wiener Index	2.89		Oligohaline Pollution Indicative Spp. Abund. 65.85
Abundance (#/m2)	1845		Tolerance Score 8.25
Deep Deposit Feeder Abundance (%)	29.27		Oligohaline Pollution Sensitive Spp. Abund. 12.20
Carnivore-Omnivore Abundance (%)	19.51		Tanypodinae/Chironomidae Abundance Ratio 100.00
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	270		0.00450
Arcteonais lomondi	45		
Chaoborus punctipennis	45		0.01800
Coelotanypus spp.	315		0.09000
Gammarus daiberi (Epi)	2520		0.09450
Hobsonia florida	45		0.00225
Imm. Tubificid w/ Cap. Chaete	90		
Imm. Tubificid w/o Cap. Chaete *	360		
Leptocheirus plumulosus	405		0.03600
Limnodrilus hoffmeisteri	45		
Littoridinops tenuipes (Epi)	18405		0.49950
Marenzelleria viridis	225		0.24750
Oecetis spp. (Epi)	45		0.00225
Oligochaeta			0.00225
Total Abundance w/ Epi.	22815		
Total Abundance w/o Epi.	1845		
Number of Taxa w/ Epi.	12		
Number of Taxa w/o Epi.	9		
Total Biomass w/ Epi.			0.99675
Total Biomass w/o Epi.			0.40050

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Choptank River	Station: 066	Rep: 02
Gear: Wildco Box Corer	Habitat: Oligohaline	Date: 11MAY01
	Sampled Area: 0.022 sq.m	Time: 12:22:00
BOTTOM ENVIRONMENT		
Depth (m): 5.3	Salinity (ppt): 0.73	Temperature (C): 21.47
Dissolved Oxygen (mg/l): 5.9	Sediment Silt-Clay (%): 67.28	Total Carbon (%): 5.56
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	2.38	Oligohaline Pollution Indicative Spp. Abund. 69.44
Abundance (#/m2)	1620	Tolerance Score 7.68
Deep Deposit Feeder Abundance (%)	13.89	Oligohaline Pollution Sensitive Spp. Abund. 5.56
Carnivore-Omnivore Abundance (%)	22.22	Tanypodinae/Chironomidae Abundance Ratio 87.50
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	360	0.02250
Chironomidae		0.00225
Coelotanypus spp.	315	0.09450
Gammarus daiberi (Epi)	4905	0.27900
Harnischia spp.	45	
Imm. Tubificid w/o Cap. Chaete *	135	
Leptocheirus plumulosus	585	0.06300
Limnodrilus hoffmeisteri	90	
Littoridinops tenuipes (Epi)	21015	0.49950
Marenzelleria viridis	90	0.05400
Oligochaeta		0.00225
Total Abundance w/ Epi.	27540	
Total Abundance w/o Epi.	1620	
Number of Taxa w/ Epi.	8	
Number of Taxa w/o Epi.	6	
Total Biomass w/ Epi.		1.01700
Total Biomass w/o Epi.		0.23850

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Choptank River		Station: 066	Rep: 03
Gear: Wildco Box Corer		Habitat: Oligohaline	Date: 11MAY01
		Sampled Area: 0.022 sq.m	Time: 12:22:00
BOTTOM ENVIRONMENT			
Depth (m): 5.3	Salinity (ppt): 0.73	Temperature (C): 21.47	
Dissolved Oxygen (mg/l): 5.9	Sediment Silt-Clay (%): 67.28	Total Carbon (%): 5.56	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.98	Oligohaline Pollution Indicative Spp. Abund.	70.37
Abundance (#/m2)	2430	Tolerance Score	7.72
Deep Deposit Feeder Abundance (%)	29.63	Oligohaline Pollution Sensitive Spp. Abund.	5.56
Carnivore-Omnivore Abundance (%)	25.93	Tanypodinae/Chironomidae Abundance Ratio	100.00
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	405		0.03600
Aulodrilus pigueti	45		
Chaoborus punctipennis	45		0.00900
Coelotanypus spp.	540		0.13500
Cyathura polita	45		0.00450
Gammarus daiberi (Epi)	4095		0.17550
Hobsonia florida	45		0.02700
Ilyodrilus templetoni	45		
Imm. Tubificid w/o Cap. Chaete	405		
Leptocheirus plumulosus	450		0.04050
Littoridinops tenuipes (Epi)	6570		0.17550
Marenzelleria viridis	135		0.17550
Musculium spp.	45		0.00225
Oligochaeta			0.00225
Tubificoides spp.	225		0.00450
Total Abundance w/ Epi.	13095		
Total Abundance w/o Epi.	2430		
Number of Taxa w/ Epi.	14		
Number of Taxa w/o Epi.	12		
Total Biomass w/ Epi.			0.78750
Total Biomass w/o Epi.			0.43650

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Upper Eastern Shore		Station: 068	Rep: 01
Gear: Wildco Box Corer		Habitat: Low Mesohaline	Date: 04MAY01
		Sampled Area: 0.022 sq.m	Time: 13:34:00
BOTTOM ENVIRONMENT			
Depth (m): 5.5	Salinity (ppt): 6.75	Temperature (C): 19.63	
Dissolved Oxygen (mg/l): 7.5	Sediment Silt-Clay (%): 84.34	Total Carbon (%): 3.05	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value Score
Shannon-Wiener Index	1.74		Pollution Indicative Species Abundance (%) 2.87
Abundance (#/m2)	43875		Pollution Indicative Species Biomass (%) 0.36
Biomass (g/m2)	133.97		Pollution Sensitive Species Abundance (%) 6.36
Carnivore-Omnivore Abundance (%)	2.67		Pollution Sensitive Species Biomass (%) 94.13
Deep Deposit Feeder Abundance (%)	59.79		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	720		0.02700
Carinoma tremaphoros	135		0.34650
Chiridotea almyra	90		0.00900
Chironomidae			0.04950
Cyathura polita	270		0.85950
Eteone heteropoda	360		0.08550
Gammarus daiberi (Epi)	360		0.03150
Heteromastus filiformis	135		0.06750
Leptocheirus plumulosus	12195		1.11600
Macoma balthica	1710		40.64850
Macoma mitchelli	135		0.22500
Marenzelleria viridis	630		1.97100
Mulinia lateralis	45		0.36000
Mya arenaria	45		0.00450
Neanthes succinea	180		4.97250
Procladius spp.	135		
Rangia cuneata	135		82.62000
Streblospio benedicti	855		0.04050
Tubificoides spp.	26100		0.57150
Turbellaria (Epi)	135		0.02250
Total Abundance w/ Epi.	44370		
Total Abundance w/o Epi.	43875		
Number of Taxa w/ Epi.	19		
Number of Taxa w/o Epi.	17		
Total Biomass w/ Epi.			134.02800
Total Biomass w/o Epi.			133.97400

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Upper Eastern Shore	Station: 068	Rep: 02
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 04MAY01
	Sampled Area: 0.022 sq.m	Time: 13:34:00
BOTTOM ENVIRONMENT		
Depth (m): 5.5	Salinity (ppt): 6.75	Temperature (C): 19.63
Dissolved Oxygen (mg/l): 7.5	Sediment Silt-Clay (%): 84.34	Total Carbon (%): 3.05
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.49	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	41535	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	62.17	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	2.49	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	69.12	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	405	0.12150
Carinoma tremaphoros	180	0.58950
Chiridotea almyra	45	0.02700
Chironomidae		0.00225
Cyathura polita	225	0.84600
Edotea triloba (Epi)	225	0.12150
Edwardsia elegans	45	0.03600
Eteone heteropoda	315	0.10800
Gammarus daiberi (Epi)	630	0.25200
Heteromastus filiformis	45	0.10800
Leptocheirus plumulosus	8325	1.50300
Macoma balthica	1665	52.37100
Macoma mitchelli	45	0.04500
Marenzelleria viridis	360	2.93400
Neanthes succinea	180	2.66400
Procladius spp.	45	
Streblospio benedicti	990	0.09450
Tubificoides spp.	28665	0.72000
Turbellaria (Epi)	45	0.05850
Total Abundance w/ Epi.	42435	
Total Abundance w/o Epi.	41535	
Number of Taxa w/ Epi.	18	
Number of Taxa w/o Epi.	15	
Total Biomass w/ Epi.		62.60175
Total Biomass w/o Epi.		62.16975

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Upper Eastern Shore	Station: 068	Rep: 03
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 04MAY01
	Sampled Area: 0.022 sq.m	Time: 13:34:00
BOTTOM ENVIRONMENT		
Depth (m): 5.5	Salinity (ppt): 6.75	Temperature (C): 19.63
Dissolved Oxygen (mg/l): 7.5	Sediment Silt-Clay (%): 84.34	Total Carbon (%): 3.05
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.33	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	22185	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	48.52	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	1.22	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	74.85	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	90	0.00900
Cyathura polita	45	0.00900
Edotea triloba (Epi)	45	0.00225
Eteone heteropoda	180	0.01800
Gammarus daiberi (Epi)	135	0.05400
Heteromastus filiformis	180	0.10800
Leptocheirus plumulosus	3510	0.60300
Macoma balthica	900	45.62550
Macoma mitchelli	45	0.17100
Marenzelleria viridis	360	1.42650
Neanthes succinea	45	0.13050
Neomysis americana (Epi)	90	0.00900
Streblospio benedicti	405	0.01350
Tubificoides spp.	16425	0.40500
Total Abundance w/ Epi.	22455	
Total Abundance w/o Epi.	22185	
Number of Taxa w/ Epi.	14	
Number of Taxa w/o Epi.	11	
Total Biomass w/ Epi.		48.58425
Total Biomass w/o Epi.		48.51900

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patuxent River		Station: 071	Rep: 01
Gear: Wildco Box Corer		Habitat: High Mesohaline Mud	Date: 09MAY01
		Sampled Area: 0.022 sq.m	Time: 11:07:00
BOTTOM ENVIRONMENT			
Depth (m): 14.8	Salinity (ppt): 11.65	Temperature (C): 16.78	
Dissolved Oxygen (mg/l): 3.8	Sediment Silt-Clay (%): 84.48	Total Carbon (%): 3.36	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	1.72		Pollution Indicative Species Abundance (%) 55.69
Abundance (#/m2)	22140		Pollution Indicative Species Biomass (%) 27.36
Biomass (g/m2)	4.66		Pollution Sensitive Species Abundance (%) 7.32
Carnivore-Omnivore Abundance (%)	1.42		Pollution Sensitive Species Biomass (%) 6.81
Deep Deposit Feeder Abundance (%)	2.64		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	135	0.01350	
Eteone heteropoda	225	0.15300	
Geukensia demissa (Epi)	45	0.00450	
Glycinde solitaria	45	0.00900	
Heteromastus filiformis	135	0.00900	
Leitoscoloplos spp.	45	0.04050	
Leptocheirus plumulosus	7335	1.37700	
Leucon americanus	45	0.00225	
Macoma balthica	1395	0.30600	
Macoma mitchelli	180	0.78750	
Mediomastus ambiseta	180	0.00225	
Mulinia lateralis	90	0.01350	
Neanthes succinea	45	0.82800	
Neomysis americana (Epi)	180	0.00225	
Polydora cornuta	45	0.00225	
Streblospio benedicti	12015	1.10700	
Tubificoides spp.	225	0.00450	
Total Abundance w/ Epi.	22365		
Total Abundance w/o Epi.	22140		
Number of Taxa w/ Epi.	17		
Number of Taxa w/o Epi.	15		
Total Biomass w/ Epi.		4.66200	
Total Biomass w/o Epi.		4.65525	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patuxent River	Station: 071	Rep: 02	
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 09MAY01	
	Sampled Area: 0.022 sq.m	Time: 11:07:00	
BOTTOM ENVIRONMENT			
Depth (m): 14.8	Salinity (ppt): 11.65	Temperature (C): 16.78	
Dissolved Oxygen (mg/l): 3.8	Sediment Silt-Clay (%): 84.48	Total Carbon (%): 3.36	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	1.75	Pollution Indicative Species Abundance (%)	59.12
Abundance (#/m2)	18495	Pollution Indicative Species Biomass (%)	17.08
Biomass (g/m2)	5.95	Pollution Sensitive Species Abundance (%)	7.06
Carnivore-Omnivore Abundance (%)	2.19	Pollution Sensitive Species Biomass (%)	9.22
Deep Deposit Feeder Abundance (%)	2.43		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	90	0.02250	
Amphiporus bioculatus	45	0.01350	
Eteone heteropoda	180	0.07200	
Glycinde solitaria	90	0.03150	
Hydrobiidae (Epi)	45	0.00450	
Leptocheirus plumulosus	5130	1.09350	
Leucon americanus	270	0.04500	
Macoma balthica	1080	0.49050	
Macoma mitchelli	270	0.03600	
Mediomastus ambiseta	90	0.01350	
Neanthes succinea	90	3.15900	
Neomysis americana (Epi)	90	0.03600	
Rangia cuneata	45	0.01350	
Streblospio benedicti	10755	0.94500	
Tubificoides spp.	360	0.01800	
Total Abundance w/ Epi.	18630		
Total Abundance w/o Epi.	18495		
Number of Taxa w/ Epi.	15		
Number of Taxa w/o Epi.	13		
Total Biomass w/ Epi.		5.99400	
Total Biomass w/o Epi.		5.95350	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patuxent River	Station: 071	Rep: 03	
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 09MAY01	
	Sampled Area: 0.022 sq.m	Time: 11:07:00	
BOTTOM ENVIRONMENT			
Depth (m): 14.8	Salinity (ppt): 11.65	Temperature (C): 16.78	
Dissolved Oxygen (mg/l): 3.8	Sediment Silt-Clay (%): 84.48	Total Carbon (%): 3.36	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	1.86	Pollution Indicative Species Abundance (%)	51.53
Abundance (#/m2)	20610	Pollution Indicative Species Biomass (%)	19.94
Biomass (g/m2)	4.88	Pollution Sensitive Species Abundance (%)	7.86
Carnivore-Omnivore Abundance (%)	2.40	Pollution Sensitive Species Biomass (%)	2.54
Deep Deposit Feeder Abundance (%)	3.28		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	180	0.00225	
Eteone heteropoda	225	0.04950	
Glycinde solitaria	180	0.00225	
Heteromastus filiformis	90	0.00225	
Leptocheirus plumulosus	7110	1.20600	
Leucon americanus	90	0.00225	
Macoma balthica	1395	0.11250	
Macoma mitchelli	270	0.54900	
Mediomastus ambiseta	45	0.00900	
Mulinia lateralis	90	0.07200	
Neanthes succinea	45	2.00250	
Neomysis americana (Epi)	135	0.02250	
Podarkeopsis levifuscina	45	0.00225	
Streblospio benedicti	10305	0.85050	
Tubificoides spp.	540	0.01350	
Turbellaria (Epi)	180	0.00225	
Total Abundance w/ Epi.	20925		
Total Abundance w/o Epi.	20610		
Number of Taxa w/ Epi.	16		
Number of Taxa w/o Epi.	14		
Total Biomass w/ Epi.		4.90050	
Total Biomass w/o Epi.		4.87575	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Chalk Point Discharge	Station: 074	Rep: 01	
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 09MAY01	
	Sampled Area: 0.022 sq.m	Time: 13:26:00	
BOTTOM ENVIRONMENT			
Depth (m): 2.2	Salinity (ppt): 5.86	Temperature (C): 21.89	
Dissolved Oxygen (mg/l): 5.5	Sediment Silt-Clay (%): 84.98	Total Carbon (%): 2.34	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	1.50	Pollution Indicative Species Abundance (%)	3.49
Abundance (#/m2)	47655	Pollution Indicative Species Biomass (%)	0.14
Biomass (g/m2)	60.50	Pollution Sensitive Species Abundance (%)	6.99
Carnivore-Omnivore Abundance (%)	3.31	Pollution Sensitive Species Biomass (%)	88.44
Deep Deposit Feeder Abundance (%)	9.92		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	225	0.03600	
Carinoma tremaphoros	360	0.34200	
Cyathura polita	135	0.27450	
Edwardsia elegans	945	0.03150	
Eteone heteropoda	90	0.03150	
Gammarus daiberi (Epi)	1170	0.22050	
Heteromastus filiformis	360	0.91800	
Leptocheirus plumulosus	35595	4.19850	
Macoma balthica	2745	50.24700	
Macoma mitchelli	765	0.40050	
Marenzelleria viridis	180	0.15300	
Melita nitida (Epi)	360	0.04050	
Neanthes succinea	45	0.89100	
Rangia cuneata	270	2.83050	
Streblospio benedicti	1575	0.05400	
Tubificoides spp.	4365	0.09000	
Total Abundance w/ Epi.	49185		
Total Abundance w/o Epi.	47655		
Number of Taxa w/ Epi.	16		
Number of Taxa w/o Epi.	14		
Total Biomass w/ Epi.		60.75900	
Total Biomass w/o Epi.		60.49800	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Chalk Point Discharge	Station: 074	Rep: 02	
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 09MAY01	
	Sampled Area: 0.022 sq.m	Time: 13:26:00	
BOTTOM ENVIRONMENT			
Depth (m): 2.2	Salinity (ppt): 5.86	Temperature (C): 21.89	
Dissolved Oxygen (mg/l): 5.5	Sediment Silt-Clay (%): 84.98	Total Carbon (%): 2.34	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	1.91	Pollution Indicative Species Abundance (%)	6.06
Abundance (#/m2)	47520	Pollution Indicative Species Biomass (%)	0.27
Biomass (g/m2)	65.25	Pollution Sensitive Species Abundance (%)	6.82
Carnivore-Omnivore Abundance (%)	3.60	Pollution Sensitive Species Biomass (%)	88.51
Deep Deposit Feeder Abundance (%)	29.17		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	675	0.21150	
Apocorophium lacustre (Epi)	180	0.03600	
Carinoma tremaphoros	180	0.22500	
Cyathura polita	135	0.88650	
Edotea triloba (Epi)	45	0.03600	
Edwardsia elegans	990	0.19350	
Eteone heteropoda	180	0.06750	
Gammarus daiberi (Epi)	1080	0.40950	
Heteromastus filiformis	135	0.10350	
Leptocheirus plumulosus	25290	3.91500	
Macoma balthica	2745	56.62800	
Macoma mitchelli	180	0.32400	
Marenzelleria viridis	360	0.23850	
Melita nitida (Epi)	135	0.08100	
Neanthes succinea	225	2.12400	
Streblospio benedicti	2700	0.10800	
Tubificoides spp.	13725	0.22500	
Total Abundance w/ Epi.	48960		
Total Abundance w/o Epi.	47520		
Number of Taxa w/ Epi.	17		
Number of Taxa w/o Epi.	13		
Total Biomass w/ Epi.		65.81250	
Total Biomass w/o Epi.		65.25000	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Chalk Point Discharge	Station: 074	Rep: 03
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 09MAY01
	Sampled Area: 0.022 sq.m	Time: 13:26:00
BOTTOM ENVIRONMENT		
Depth (m): 2.2	Salinity (ppt): 5.86	Temperature (C): 21.89
Dissolved Oxygen (mg/l): 5.5	Sediment Silt-Clay (%): 84.98	Total Carbon (%): 2.34
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.56	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	49950	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	54.78	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	5.68	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	10.18	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	360	0.08100
Apocorophium lacustre (Epi)	45	0.02250
Balanus improvisus (Epi)	45	0.02700
Carinoma tremaphoros	405	0.47700
Cyathura polita	135	1.07100
Edwardsia elegans	1395	0.15300
Eteone heteropoda	540	0.11700
Gammarus daiberi (Epi)	1935	0.20700
Heteromastus filiformis	270	0.86850
Leptocheirus plumulosus	36945	5.40450
Macoma balthica	2295	43.13700
Macoma mitchelli	495	0.01800
Marenzelleria viridis	270	0.85500
Melita nitida (Epi)	315	0.02700
Mulinia lateralis	45	0.32400
Neanthes succinea	360	2.09700
Streblospio benedicti	1620	0.09450
Tubificoides spp.	4815	0.08550
Total Abundance w/ Epi.	52290	
Total Abundance w/o Epi.	49950	
Number of Taxa w/ Epi.	18	
Number of Taxa w/o Epi.	14	
Total Biomass w/ Epi.		55.06650
Total Biomass w/o Epi.		54.78300

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patuxent River	Station: 077	Rep: 01
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 09MAY01
	Sampled Area: 0.022 sq.m	Time: 14:09:00
BOTTOM ENVIRONMENT		
Depth (m): 3.3	Salinity (ppt): 2.00	Temperature (C): 21.42
Dissolved Oxygen (mg/l): 6.5	Sediment Silt-Clay (%): 96.00	Total Carbon (%): 2.78
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.39	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	29250	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	4.46	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	1.38	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	3.69	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	135	0.00225
Carinoma tremaphoros	45	0.04500
Coelotanypus spp.	360	0.22050
Gammarus daiberi (Epi)	1350	0.12150
Hobsonia florida	45	0.00900
Leptocheirus plumulosus	21555	2.62800
Macoma balthica	270	0.04950
Macoma mitchelli	180	0.02250
Marenzelleria viridis	315	1.16100
Rangia cuneata	945	0.08550
Streblospio benedicti	4320	0.21150
Tubificoides spp.	1080	0.02250
Total Abundance w/ Epi.	30600	
Total Abundance w/o Epi.	29250	
Number of Taxa w/ Epi.	12	
Number of Taxa w/o Epi.	11	
Total Biomass w/ Epi.		4.57875
Total Biomass w/o Epi.		4.45725

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patuxent River	Station: 077	Rep: 02
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 09MAY01
	Sampled Area: 0.022 sq.m	Time: 14:09:00
BOTTOM ENVIRONMENT		
Depth (m): 3.3	Salinity (ppt): 2.00	Temperature (C): 21.42
Dissolved Oxygen (mg/l): 6.5	Sediment Silt-Clay (%): 96.00	Total Carbon (%): 2.78
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	1.44	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	38835	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	4.40	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	1.27	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	10.20	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	45	0.02700
Chironomidae		0.00225
Coelotanypus spp.	405	0.21150
Eteone heteropoda	45	0.01350
Gammarus daiberi (Epi)	2070	0.20250
Leptocheirus plumulosus	27540	3.23100
Littoridinops tenuipes (Epi)	450	0.00450
Macoma balthica	225	0.05850
Macoma mitchelli	135	0.03600
Marenzelleria viridis	225	0.57150
Procladius spp.	45	
Rangia cuneata	1125	0.00450
Streblospio benedicti	5085	0.19800
Tubificoides spp.	3960	0.04950
Total Abundance w/ Epi.	41355	
Total Abundance w/o Epi.	38835	
Number of Taxa w/ Epi.	13	
Number of Taxa w/o Epi.	11	
Total Biomass w/ Epi.		4.61025
Total Biomass w/o Epi.		4.40325

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patuxent River	Station: 077	Rep: 03	
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 09MAY01	
	Sampled Area: 0.022 sq.m	Time: 14:09:00	
BOTTOM ENVIRONMENT			
Depth (m): 3.3	Salinity (ppt): 2.00	Temperature (C): 21.42	
Dissolved Oxygen (mg/l): 6.5	Sediment Silt-Clay (%): 96.00	Total Carbon (%): 2.78	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	1.47	Pollution Indicative Species Abundance (%)	19.04
Abundance (#/m2)	34740	Pollution Indicative Species Biomass (%)	8.57
Biomass (g/m2)	4.10	Pollution Sensitive Species Abundance (%)	4.02
Carnivore-Omnivore Abundance (%)	0.78	Pollution Sensitive Species Biomass (%)	8.35
Deep Deposit Feeder Abundance (%)	5.57		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	450	0.02250	
Apocorophium lacustre (Epi)	45	0.00225	
Carinoma tremaphoros	90	0.08100	
Coelotanypus spp.	180	0.04950	
Gammarus daiberi (Epi)	2745	0.22500	
Leptocheirus plumulosus	24075	3.24000	
Macoma balthica	135	0.04500	
Macoma mitchelli	180	0.03600	
Marenzelleria viridis	360	0.27000	
Rangia cuneata	900	0.02700	
Streblospio benedicti	6435	0.30150	
Tubificoides spp.	1935	0.02250	
Total Abundance w/ Epi.	37530		
Total Abundance w/o Epi.	34740		
Number of Taxa w/ Epi.	12		
Number of Taxa w/o Epi.	10		
Total Biomass w/ Epi.		4.32225	
Total Biomass w/o Epi.		4.09500	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patuxent River		Station: 079	Rep: 01
Gear: Wildco Box Corer		Habitat: Tidal Freshwater	Date: 09MAY01
		Sampled Area: 0.022 sq.m	Time: 14:57:00
BOTTOM ENVIRONMENT			
Depth (m): 1.5	Salinity (ppt): 0.14	Temperature (C): 20.61	
Dissolved Oxygen (mg/l): 11.0	Sediment Silt-Clay (%): 86.82	Total Carbon (%): 4.56	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	3.25		
Abundance (#/m2)	6885	T.F. Pollution Indicative Spp. Abund. (%)	40.52
Deep Deposit Feeder Abundance (%)	87.58	Tolerance Score	8.92
Carnivore-Omnivore Abundance (%)	11.76	Limnodrilus Abundance (%)	40.52
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Almyracuma proximoculi	45	0.00225	
Arcteonais lomondi	270		
Aulodrilus limnobius	450		
Chironomidae		0.00225	
Chironomus spp.	90		
Coelotanypus spp.	315	0.14400	
Gammarus spp. (Epi)	675	0.04050	
Harnischia spp.	135		
Ilyodrilus templetoni	450		
Imm. Tubificid w/ Cap. Chaete *	720		
Imm. Tubificid w/o Cap. Chaete *	2430		
Limnodrilus hoffmeisteri	360		
Oligochaeta		1.22850	
Paranais frici	630		
Polypedilum halterale group	90		
Procladius spp.	180		
Quistadrilus multisetosus	450		
Slavina appendiculata	90		
Tubificoides spp.	180	0.00225	
Total Abundance w/ Epi.	7560		
Total Abundance w/o Epi.	6885		
Number of Taxa w/ Epi.	15		
Number of Taxa w/o Epi.	14		
Total Biomass w/ Epi.		1.41975	
Total Biomass w/o Epi.		1.37925	

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patuxent River		Station: 079	Rep: 02
Gear: Wildco Box Corer		Habitat: Tidal Freshwater	Date: 09MAY01
		Sampled Area: 0.022 sq.m	Time: 14:57:00
BOTTOM ENVIRONMENT			
Depth (m): 1.5	Salinity (ppt): 0.14	Temperature (C): 20.61	
Dissolved Oxygen (mg/l): 11.0	Sediment Silt-Clay (%): 86.82	Total Carbon (%): 4.56	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value
Shannon-Wiener Index	2.51		59.18
Abundance (#/m2)	4410	T.F. Pollution Indicative Spp. Abund. (%)	8.98
Deep Deposit Feeder Abundance (%)	83.67	Limnodrilus Abundance (%)	59.18
Carnivore-Omnivore Abundance (%)	13.27		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Almyracuma proximoculi	45	0.00450	
Arcteonais lomondi	360		
Aulodrilus limnobius	180		
Ceratopogonidae	45	0.00225	
Chironomidae		0.00225	
Chironomus spp.	45		
Coelotanypus spp.	45	0.01800	
Cryptotendipes spp.	45		
Harnischia spp.	225		
Ilyodrilus templetoni	180		
Imm. Tubificid w/ Cap. Chaete *	360		
Imm. Tubificid w/o Cap. Chaete *	2430		
Leptocheirus plumulosus	45	0.00900	
Limnodrilus hoffmeisteri	180		
Littoridinops tenuipes (Epi)	180	0.00450	
Oligochaeta		0.94050	
Procladius spp.	180		
Streblospio benedicti	45	0.01350	
Total Abundance w/ Epi.	4590		
Total Abundance w/o Epi.	4410		
Number of Taxa w/ Epi.	14		
Number of Taxa w/o Epi.	13		
Total Biomass w/ Epi.		0.99450	
Total Biomass w/o Epi.		0.99000	

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Station: 079		Rep: 03
Watershed: Patuxent River	Habitat: Tidal Freshwater	Date: 09MAY01
Gear: Wildco Box Corer	Sampled Area: 0.022 sq.m	Time: 14:57:00
BOTTOM ENVIRONMENT		
Depth (m): 1.5	Salinity (ppt): 0.14	Temperature (C): 20.61
Dissolved Oxygen (mg/l): 11.0	Sediment Silt-Clay (%): 86.82	Total Carbon (%): 4.56
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	2.74	T.F. Pollution Indicative Spp. Abund. (%) 58.18
Abundance (#/m2)	4950	Tolerance Score 9.22
Deep Deposit Feeder Abundance (%)	85.45	Limnodrilus Abundance (%) 58.18
Carnivore-Omnivore Abundance (%)	14.55	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Arcteonais lomondi	90	
Aulodrilus limnobius	90	
Chironomidae		0.00225
Chironomidae pupae *	90	0.01350
Chironomus spp.	45	
Coelotanypus spp.	315	0.13500
Cryptochironomus spp.	45	
Gammarus spp. (Epi)	180	0.01800
Harnischia spp.	45	
Ilyodrilus templetoni	180	
Imm. Tubificid w/ Cap. Chaete *	540	
Imm. Tubificid w/o Cap. Chaete *	2430	
Limnodrilus hoffmeisteri	450	
Littoridinops tenuipes (Epi)	180	0.00900
Oligochaeta		0.94500
Paranais frici	90	
Procladius spp.	135	
Quistadrilus multisetosus	270	
Slavina appendiculata	90	
Tanytarsus spp.	45	
Total Abundance w/ Epi.	5310	
Total Abundance w/o Epi.	4950	
Number of Taxa w/ Epi.	15	
Number of Taxa w/o Epi.	13	
Total Biomass w/ Epi.		1.12275
Total Biomass w/o Epi.		1.09575

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 201	Rep: 01
Gear: Wildco Box Corer		Habitat: Low Mesohaline	Date: 08MAY01
		Sampled Area: 0.022 sq.m	Time: 12:30:00
BOTTOM ENVIRONMENT			
Depth (m): 4.8	Salinity (ppt): 5.04	Temperature (C): 18.84	
Dissolved Oxygen (mg/l): 9.0	Sediment Silt-Clay (%): 83.75	Total Carbon (%): 6.87	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value Score
Shannon-Wiener Index	1.57		Pollution Indicative Species Abundance (%) 10.00
Abundance (#/m2)	1350		Pollution Indicative Species Biomass (%) 19.05
Biomass (g/m2)	0.57		Pollution Sensitive Species Abundance (%) 80.00
Carnivore-Omnivore Abundance (%)	10.00		Pollution Sensitive Species Biomass (%) 65.87
Deep Deposit Feeder Abundance (%)	0.00		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	135		0.08550
Eteone heteropoda	135		0.10800
Macoma balthica	810		0.25650
Marenzelleria viridis	270		0.11700
Total Abundance w/ Epi.	1350		
Total Abundance w/o Epi.	1350		
Number of Taxa w/ Epi.	4		
Number of Taxa w/o Epi.	4		
Total Biomass w/ Epi.			0.56700
Total Biomass w/o Epi.			0.56700

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 201	Rep: 02
Gear: Wildco Box Corer		Habitat: Low Mesohaline	Date: 08MAY01
		Sampled Area: 0.022 sq.m	Time: 12:30:00
BOTTOM ENVIRONMENT			
Depth (m): 4.8	Salinity (ppt): 5.04	Temperature (C): 18.84	
Dissolved Oxygen (mg/l): 9.0	Sediment Silt-Clay (%): 83.75	Total Carbon (%): 6.87	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value Score
Shannon-Wiener Index	1.34		Pollution Indicative Species Abundance (%) 25.71
Abundance (#/m2)	1575		Pollution Indicative Species Biomass (%) 19.37
Biomass (g/m2)	1.00		Pollution Sensitive Species Abundance (%) 68.57
Carnivore-Omnivore Abundance (%)	25.71		Pollution Sensitive Species Biomass (%) 76.80
Deep Deposit Feeder Abundance (%)	0.00		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	45		0.00225
Eteone heteropoda	405		0.19350
Macoma balthica	1035		0.76500
Macoma mitchelli	45		0.03600
Marenzelleria viridis	45		0.00225
Total Abundance w/ Epi.	1575		
Total Abundance w/o Epi.	1575		
Number of Taxa w/ Epi.	5		
Number of Taxa w/o Epi.	5		
Total Biomass w/ Epi.			0.99900
Total Biomass w/o Epi.			0.99900

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patapsco & Back Rivers	Station: 201	Rep: 03	
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 08MAY01	
	Sampled Area: 0.022 sq.m	Time: 12:30:00	
BOTTOM ENVIRONMENT			
Depth (m): 4.8	Salinity (ppt): 5.04	Temperature (C): 18.84	
Dissolved Oxygen (mg/l): 9.0	Sediment Silt-Clay (%): 83.75	Total Carbon (%): 6.87	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	1.46	Pollution Indicative Species Abundance (%)	28.57
Abundance (#/m2)	945	Pollution Indicative Species Biomass (%)	15.05
Biomass (g/m2)	0.84	Pollution Sensitive Species Abundance (%)	71.43
Carnivore-Omnivore Abundance (%)	28.57	Pollution Sensitive Species Biomass (%)	84.95
Deep Deposit Feeder Abundance (%)	0.00		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Eteone heteropoda	270	0.12600	
Macoma balthica	495	0.67950	
Marenzelleria viridis	180	0.03150	
Total Abundance w/ Epi.	945		
Total Abundance w/o Epi.	945		
Number of Taxa w/ Epi.	3		
Number of Taxa w/o Epi.	3		
Total Biomass w/ Epi.		0.83700	
Total Biomass w/o Epi.		0.83700	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 202	Rep: 01
Gear: Wildco Box Corer		Habitat: Low Mesohaline	Date: 08MAY01
		Sampled Area: 0.022 sq.m	Time: 11:08:00
BOTTOM ENVIRONMENT			
Depth (m): 6.7	Salinity (ppt): 5.63	Temperature (C): 18.45	
Dissolved Oxygen (mg/l): 8.0	Sediment Silt-Clay (%): 96.98	Total Carbon (%): 2.71	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value Score
Shannon-Wiener Index	2.01		Pollution Indicative Species Abundance (%) 32.81
Abundance (#/m2)	2880		Pollution Indicative Species Biomass (%) 4.81
Biomass (g/m2)	2.11		Pollution Sensitive Species Abundance (%) 60.94
Carnivore-Omnivore Abundance (%)	31.25		Pollution Sensitive Species Biomass (%) 76.07
Deep Deposit Feeder Abundance (%)	0.00		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	45		0.00225
Eteone heteropoda	900		0.00225
Gammarus daiberi (Epi)	45		0.07650
Leptocheirus plumulosus	90		0.39600
Macoma balthica	855		1.15200
Macoma mitchelli	45		0.00450
Marenzelleria viridis	900		0.45000
Mulinia lateralis	45		0.09900
Neomysis americana (Epi)	45		0.00225
Total Abundance w/ Epi.	2970		
Total Abundance w/o Epi.	2880		
Number of Taxa w/ Epi.	9		
Number of Taxa w/o Epi.	7		
Total Biomass w/ Epi.			2.18475
Total Biomass w/o Epi.			2.10600

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patapsco & Back Rivers	Station: 202	Rep: 02	
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 08MAY01	
	Sampled Area: 0.022 sq.m	Time: 11:08:00	
BOTTOM ENVIRONMENT			
Depth (m): 6.7	Salinity (ppt): 5.63	Temperature (C): 18.45	
Dissolved Oxygen (mg/l): 8.0	Sediment Silt-Clay (%): 96.98	Total Carbon (%): 2.71	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	2.03	Pollution Indicative Species Abundance (%)	39.66
Abundance (#/m2)	2610	Pollution Indicative Species Biomass (%)	28.51
Biomass (g/m2)	1.99	Pollution Sensitive Species Abundance (%)	50.00
Carnivore-Omnivore Abundance (%)	37.93	Pollution Sensitive Species Biomass (%)	68.33
Deep Deposit Feeder Abundance (%)	0.00		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Eteone heteropoda	990	0.50400	
Leptocheirus plumulosus	225	0.03600	
Macoma balthica	720	1.16550	
Macoma mitchelli	45	0.02700	
Marenzelleria viridis	585	0.19350	
Streblospio benedicti	45	0.06300	
Total Abundance w/ Epi.	2610		
Total Abundance w/o Epi.	2610		
Number of Taxa w/ Epi.	6		
Number of Taxa w/o Epi.	6		
Total Biomass w/ Epi.		1.98900	
Total Biomass w/o Epi.		1.98900	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patapsco & Back Rivers	Station: 202	Rep: 03	
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 08MAY01	
	Sampled Area: 0.022 sq.m	Time: 11:08:00	
BOTTOM ENVIRONMENT			
Depth (m): 6.7	Salinity (ppt): 5.63	Temperature (C): 18.45	
Dissolved Oxygen (mg/l): 8.0	Sediment Silt-Clay (%): 96.98	Total Carbon (%): 2.71	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	2.15	Pollution Indicative Species Abundance (%)	34.09
Abundance (#/m2)	3960	Pollution Indicative Species Biomass (%)	30.68
Biomass (g/m2)	2.26	Pollution Sensitive Species Abundance (%)	55.68
Carnivore-Omnivore Abundance (%)	30.68	Pollution Sensitive Species Biomass (%)	66.14
Deep Deposit Feeder Abundance (%)	0.00		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Ameroculodes species complex	135	0.01800	
Eteone heteropoda	1215	0.68400	
Gammarus daiberi (Epi)	45	0.00225	
Leptocheirus plumulosus	270	0.05400	
Macoma balthica	1080	1.17000	
Marenzelleria viridis	1125	0.32400	
Streblospio benedicti	135	0.00900	
Total Abundance w/ Epi.	4005		
Total Abundance w/o Epi.	3960		
Number of Taxa w/ Epi.	7		
Number of Taxa w/o Epi.	6		
Total Biomass w/ Epi.		2.26125	
Total Biomass w/o Epi.		2.25900	

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 203	Rep: 01
Gear: Young Grab		Habitat: Oligohaline	Date: 07MAY01
		Sampled Area: 0.044 sq.m	Time: 15:25:00
BOTTOM ENVIRONMENT			
Depth (m): 1.0	Salinity (ppt): 1.08	Temperature (C): 21.34	
Dissolved Oxygen (mg/l): 10.9	Sediment Silt-Clay (%): 82.55	Total Carbon (%): 5.03	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value Score
Shannon-Wiener Index	1.57		Oligohaline Pollution Indicative Spp. Abund. 92.82
Abundance (#/m2)	8861		Tolerance Score 9.80
Deep Deposit Feeder Abundance (%)	86.15		Oligohaline Pollution Sensitive Spp. Abund. 7.18
Carnivore-Omnivore Abundance (%)	0.00		Tanypodinae/Chironomidae Abundance Ratio 0.00
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Imm. Tubificid w/o Cap. Chaete *	3294		
Leptocheirus plumulosus	591		0.27037
Limnodrilus hoffmeisteri	4340		
Marenzelleria viridis	636		0.51802
Oligochaeta			1.29277
Total Abundance w/ Epi.	8861		
Total Abundance w/o Epi.	8861		
Number of Taxa w/ Epi.	3		
Number of Taxa w/o Epi.	3		
Total Biomass w/ Epi.			2.08115
Total Biomass w/o Epi.			2.08115

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 203	Rep: 02
Gear: Young Grab		Habitat: Oligohaline	Date: 07MAY01
		Sampled Area: 0.044 sq.m	Time: 15:25:00
BOTTOM ENVIRONMENT			
Depth (m): 1.0	Salinity (ppt): 1.08	Temperature (C): 21.34	
Dissolved Oxygen (mg/l): 10.9	Sediment Silt-Clay (%): 82.55	Total Carbon (%): 5.03	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value Score
Shannon-Wiener Index	1.60	Oligohaline Pollution Indicative Spp. Abund.	98.81
Abundance (#/m2)	5725	Tolerance Score	9.80
Deep Deposit Feeder Abundance (%)	88.89	Oligohaline Pollution Sensitive Spp. Abund.	0.79
Carnivore-Omnivore Abundance (%)	1.19	Tanypodinae/Chironomidae Abundance Ratio	0.00
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Carinoma tremaphoros	23		0.06134
Chironomidae			0.00114
Chironomus spp.	45		
Imm. Tubificid w/o Cap. Chaete *	2545		
Leptocheirus plumulosus	523		0.22493
Limnodrilus hoffmeisteri	2454		
Marenzelleria viridis	45		0.03181
Oligochaeta			0.57482
Tubificoides spp.	91		0.01136
Total Abundance w/ Epi.	5725		
Total Abundance w/o Epi.	5725		
Number of Taxa w/ Epi.	6		
Number of Taxa w/o Epi.	6		
Total Biomass w/ Epi.			0.90539
Total Biomass w/o Epi.			0.90539

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 203	Rep: 03
Gear: Young Grab		Habitat: Oligohaline	Date: 07MAY01
		Sampled Area: 0.044 sq.m	Time: 15:25:00
BOTTOM ENVIRONMENT			
Depth (m): 1.0	Salinity (ppt): 1.08	Temperature (C): 21.34	
Dissolved Oxygen (mg/l): 10.9	Sediment Silt-Clay (%): 82.55	Total Carbon (%): 5.03	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable		# Attributes Scored: 0
	Value	Score	Value Score
Shannon-Wiener Index	1.64	Oligohaline Pollution Indicative Spp. Abund.	95.69
Abundance (#/m2)	12655	Tolerance Score	9.80
Deep Deposit Feeder Abundance (%)	86.54	Oligohaline Pollution Sensitive Spp. Abund.	4.31
Carnivore-Omnivore Abundance (%)	0.18	Tanypodinae/Chironomidae Abundance Ratio	0.00
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Chironomidae			0.00114
Chironomus spp.	23		
Imm. Tubificid w/o Cap. Chaete *	6248		
Leptocheirus plumulosus	1136		0.54301
Limnodrilus hoffmeisteri	4544		
Marenzelleria viridis	545		0.37715
Oligochaeta			1.66992
Tubificoides spp.	159		0.00909
Total Abundance w/ Epi.	12655		
Total Abundance w/o Epi.	12655		
Number of Taxa w/ Epi.	5		
Number of Taxa w/o Epi.	5		
Total Biomass w/ Epi.			2.60030
Total Biomass w/o Epi.			2.60030

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Lower Western Shore	Station: 204	Rep: 01
Gear: Young Grab	Habitat: High Mesohaline Mud	Date: 08MAY01
	Sampled Area: 0.044 sq.m	Time: 14:55:00
BOTTOM ENVIRONMENT		
Depth (m): 7.5	Salinity (ppt): 7.93	Temperature (C): 17.68
Dissolved Oxygen (mg/l): 8.6	Sediment Silt-Clay (%): 44.90	Total Carbon (%): 2.17
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	2.35	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	2658	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	7.86	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	13.68	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	25.64	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	45	0.06362
Heteromastus filiformis	318	0.12269
Leptocheirus plumulosus	1204	0.96106
Macoma balthica	159	3.44435
Mulinia lateralis	23	0.09088
Neanthes succinea	318	3.17398
Streblospio benedicti	227	0.00454
Tubificoides spp.	364	0.00227
Total Abundance w/ Epi.	2658	
Total Abundance w/o Epi.	2658	
Number of Taxa w/ Epi.	8	
Number of Taxa w/o Epi.	8	
Total Biomass w/ Epi.		7.86339
Total Biomass w/o Epi.		7.86339

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Lower Western Shore	Station: 204	Rep: 02
Gear: Young Grab	Habitat: High Mesohaline Mud	Date: 08MAY01
	Sampled Area: 0.044 sq.m	Time: 14:55:00
BOTTOM ENVIRONMENT		
Depth (m): 7.5	Salinity (ppt): 7.93	Temperature (C): 17.68
Dissolved Oxygen (mg/l): 8.6	Sediment Silt-Clay (%): 44.90	Total Carbon (%): 2.17
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0
	Value Score	Value Score
Shannon-Wiener Index	2.62	Pollution Indicative Species Abundance (%)
Abundance (#/m2)	3885	Pollution Indicative Species Biomass (%)
Biomass (g/m2)	17.22	Pollution Sensitive Species Abundance (%)
Carnivore-Omnivore Abundance (%)	10.53	Pollution Sensitive Species Biomass (%)
Deep Deposit Feeder Abundance (%)	32.75	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Balanus improvisus (Epi)	23	0.02272
Carinoma tremaphoros	45	0.26128
Eteone heteropoda	45	0.03181
Glycinde solitaria	23	0.02954
Heteromastus filiformis	750	0.43168
Leptocheirus plumulosus	1091	0.50438
Macoma balthica	204	13.99779
Macoma mitchelli	45	0.02272
Neanthes succinea	295	1.83805
Streblospio benedicti	863	0.07498
Tubificoides spp.	523	0.03181
Total Abundance w/ Epi.	3908	
Total Abundance w/o Epi.	3885	
Number of Taxa w/ Epi.	11	
Number of Taxa w/o Epi.	10	
Total Biomass w/ Epi.		17.24675
Total Biomass w/o Epi.		17.22403

BOTTOM ENVIRONMENT AND BENTHOS, SPRING 2001 (CRUISE 02:2000/2001) FIXED STATIONS

Watershed: Lower Western Shore	Station: 204	Rep: 03	
Gear: Young Grab	Habitat: High Mesohaline Mud	Date: 08MAY01	
	Sampled Area: 0.044 sq.m	Time: 14:55:00	
BOTTOM ENVIRONMENT			
Depth (m): 7.5	Salinity (ppt): 7.93	Temperature (C): 17.68	
Dissolved Oxygen (mg/l): 8.6	Sediment Silt-Clay (%): 44.90	Total Carbon (%): 2.17	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score:	Condition: Not Applicable	# Attributes Scored: 0	
	Value Score	Value Score	
Shannon-Wiener Index	2.35	Pollution Indicative Species Abundance (%)	24.83
Abundance (#/m2)	6589	Pollution Indicative Species Biomass (%)	1.38
Biomass (g/m2)	7.57	Pollution Sensitive Species Abundance (%)	2.07
Carnivore-Omnivore Abundance (%)	6.21	Pollution Sensitive Species Biomass (%)	38.09
Deep Deposit Feeder Abundance (%)	35.17		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Carinoma tremaphoros	23	0.05226	
Heteromastus filiformis	863	0.75203	
Leptocheirus plumulosus	2090	1.47907	
Macoma balthica	91	2.75821	
Marenzelleria viridis	23	0.00114	
Micrura leidyi	45	0.18403	
Mulinia lateralis	23	0.02045	
Mya arenaria	23	0.12269	
Neanthes succinea	341	2.09478	
Streblospio benedicti	1613	0.08406	
Tubificoides spp.	1454	0.01818	
Total Abundance w/ Epi.	6589		
Total Abundance w/o Epi.	6589		
Number of Taxa w/ Epi.	11		
Number of Taxa w/o Epi.	11		
Total Biomass w/ Epi.		7.56690	
Total Biomass w/o Epi.		7.56690	

DATA SUMMARY B

**BENTHIC ENVIRONMENT AND COMMUNITY
COMPOSITION AT FIXED SITES:
SUMMER 2001**

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Mainstem	Station: 001	Rep: 01
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 04SEP01
	Sampled Area: 0.025 sq.m	Time: 17:34:44
BOTTOM ENVIRONMENT		
Depth (m): 3.0	Salinity (ppt): 15.83	Temperature (C): 26.46
Dissolved Oxygen (mg/l): 8.3	Sediment Silt-Clay (%): 3.96	Total Carbon (%): 0.06
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 4.00	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.78 3	Pollution Indicative Species Abundance (%) 0.00 5
Abundance (#/m2)	1880 5	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	0.56 1	Pollution Sensitive Species Abundance (%) 42.55 5
Carnivore-Omnivore Abundance (%)	70.21 5	Pollution Sensitive Species Biomass (%) 22.14
Deep Deposit Feeder Abundance (%)	8.51	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	480	0.04000
Ameroculodes species complex	40	0.00800
Glycinde solitaria	240	0.04800
Haminoea solitaria	560	0.11600
Heteromastus filiformis	120	0.04800
Macoma mitchelli	80	0.06400
Paraonis fulgens	200	0.00800
Pectinaria gouldii	40	0.18800
Phoronis spp.	40	0.01200
Rictaxis punctostriatus	40	0.00400
Spiochaetopterus costarum	40	0.02400
Total Abundance w/ Epi.	1880	
Total Abundance w/o Epi.	1880	
Number of Taxa w/ Epi.	11	
Number of Taxa w/o Epi.	11	
Total Biomass w/ Epi.		0.56000
Total Biomass w/o Epi.		0.56000

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Mainstem	Station: 001	Rep: 02
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 04SEP01
	Sampled Area: 0.025 sq.m	Time: 17:34:44
BOTTOM ENVIRONMENT		
Depth (m): 3.0	Salinity (ppt): 15.83	Temperature (C): 26.46
Dissolved Oxygen (mg/l): 8.3	Sediment Silt-Clay (%): 3.96	Total Carbon (%): 0.06
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 4.00	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.73 3	Pollution Indicative Species Abundance (%) 0.00 5
Abundance (#/m2)	3480 3	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	1.17 3	Pollution Sensitive Species Abundance (%) 55.17 5
Carnivore-Omnivore Abundance (%)	86.21 5	Pollution Sensitive Species Biomass (%) 1.20
Deep Deposit Feeder Abundance (%)	1.15	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	1240	0.00800
Ameroculodes species complex	120	0.00200
Amphiporus bioculatus	200	0.00200
Gemma gemma	80	0.00200
Glycinde solitaria	560	0.00200
Haminoea solitaria	760	0.33200
Heteromastus filiformis	40	0.00200
Laeonereis culveri	80	0.50800
Nemertinea	40	0.30400
Phoronis spp.	40	0.00200
Rictaxis punctostriatus	120	0.00200
Spiochaetopterus costarum	80	0.00200
Tellinidae	120	0.00200
Total Abundance w/ Epi.	3480	
Total Abundance w/o Epi.	3480	
Number of Taxa w/ Epi.	13	
Number of Taxa w/o Epi.	13	
Total Biomass w/ Epi.		1.17000
Total Biomass w/o Epi.		1.17000

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Mainstem	Station: 001	Rep: 03
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 04SEP01
	Sampled Area: 0.025 sq.m	Time: 17:34:44
BOTTOM ENVIRONMENT		
Depth (m): 3.0	Salinity (ppt): 15.83	Temperature (C): 26.46
Dissolved Oxygen (mg/l): 8.3	Sediment Silt-Clay (%): 3.96	Total Carbon (%): 0.06
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 4.33	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.97 3	Pollution Indicative Species Abundance (%) 0.00 5
Abundance (#/m2)	2120 5	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	1.44 3	Pollution Sensitive Species Abundance (%) 47.17 5
Carnivore-Omnivore Abundance (%)	71.70 5	Pollution Sensitive Species Biomass (%) 3.62
Deep Deposit Feeder Abundance (%)	7.55	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	360	0.00200
Amphiporus bioculatus	80	0.00200
Glycinde solitaria	520	0.00800
Haminoea solitaria	520	0.09200
Heteromastus filiformis	80	0.06000
Imm. Tubificid w/ Cap. Chaete	40	
Lepidactylus dytiscus	40	0.00200
Macoma mitchelli	120	0.00200
Micrura leidyi	40	1.22000
Oligochaeta		0.00200
Paraonis fulgens	160	0.00200
Pectinaria gouldii	40	0.00400
Phoronis spp.	40	0.00200
Spiochaetopterus costarum	80	0.04000
Total Abundance w/ Epi.	2120	
Total Abundance w/o Epi.	2120	
Number of Taxa w/ Epi.	13	
Number of Taxa w/o Epi.	13	
Total Biomass w/ Epi.		1.43800
Total Biomass w/o Epi.		1.43800

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Calvert Cliffs Discharge	Station: 006	Rep: 01
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 04SEP01
	Sampled Area: 0.025 sq.m	Time: 17:06:56
BOTTOM ENVIRONMENT		
Depth (m): 2.5	Salinity (ppt): 15.89	Temperature (C): 27.74
Dissolved Oxygen (mg/l): 7.2	Sediment Silt-Clay (%): 4.09	Total Carbon (%): 0.04
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.33	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.27 1	Pollution Indicative Species Abundance (%) 0.86 5
Abundance (#/m2)	4640 3	Pollution Indicative Species Biomass (%) 0.46
Biomass (g/m2)	0.87 1	Pollution Sensitive Species Abundance (%) 72.41 5
Carnivore-Omnivore Abundance (%)	87.93 5	Pollution Sensitive Species Biomass (%) 22.81
Deep Deposit Feeder Abundance (%)	1.72	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	2360	0.14000
Ameroculodes species complex	40	0.00200
Ampelisca abdita	40	0.00200
Carinoma tremaphoros	40	0.00400
Gemma gemma	80	0.00200
Glycinde solitaria	840	0.04800
Haminoea solitaria	760	0.39200
Lyonsia hyalina	40	0.00800
Macoma mitchelli	80	0.18000
Micrura leidyi	40	0.02400
Nassarius spp.	40	0.01600
Paraprionospio pinnata	40	0.00400
Pectinaria gouldii	80	0.03600
Phoronis spp.	80	0.00200
Spiochaetopterus costarum	80	0.00800
Stylochus ellipticus (Epi)	40	0.00200
Total Abundance w/ Epi.	4680	
Total Abundance w/o Epi.	4640	
Number of Taxa w/ Epi.	16	
Number of Taxa w/o Epi.	15	
Total Biomass w/ Epi.		0.87000
Total Biomass w/o Epi.		0.86800

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Calvert Cliffs Discharge		Station: 006	Rep: 02
Gear: Modified Box Corer		Habitat: High Mesohaline Sand	Date: 04SEP01
		Sampled Area: 0.025 sq.m	Time: 17:06:56
BOTTOM ENVIRONMENT			
Depth (m): 2.5	Salinity (ppt): 15.89	Temperature (C): 27.74	
Dissolved Oxygen (mg/l): 7.2	Sediment Silt-Clay (%): 4.09	Total Carbon (%): 0.04	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score: 3.33	Condition: Meets Goal		# Attributes Scored: 6
	Value	Score	Value Score
Shannon-Wiener Index	2.40	1	Pollution Indicative Species Abundance (%) 1.05 5
Abundance (#/m2)	3800	3	Pollution Indicative Species Biomass (%) 0.23
Biomass (g/m2)	0.86	1	Pollution Sensitive Species Abundance (%) 76.84 5
Carnivore-Omnivore Abundance (%)	84.21	5	Pollution Sensitive Species Biomass (%) 37.76
Deep Deposit Feeder Abundance (%)	5.26		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Acteocina canaliculata	1600		0.08800
Glycinde solitaria	1000		0.05200
Haminoea solitaria	520		0.11600
Heteromastus filiformis	80		0.02400
Macoma balthica	40		0.04400
Macoma mitchelli	40		0.00200
Micrura leidyi	40		0.38400
Mulinia lateralis	40		0.00200
Pectinaria gouldii	120		0.00200
Phoronis spp.	120		0.04400
Rictaxis punctostriatus	40		0.00400
Spiochaetopterus costarum	160		0.09600
Stylochus ellipticus (Epi)	40		0.02800
Total Abundance w/ Epi.	3840		
Total Abundance w/o Epi.	3800		
Number of Taxa w/ Epi.	13		
Number of Taxa w/o Epi.	12		
Total Biomass w/ Epi.			0.88600
Total Biomass w/o Epi.			0.85800

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Calvert Cliffs Discharge	Station: 006	Rep: 03
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 04SEP01
	Sampled Area: 0.025 sq.m	Time: 17:06:56
BOTTOM ENVIRONMENT		
Depth (m): 2.5	Salinity (ppt): 15.89	Temperature (C): 27.74
Dissolved Oxygen (mg/l): 7.2	Sediment Silt-Clay (%): 4.09	Total Carbon (%): 0.04
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.67	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.16 1	Pollution Indicative Species Abundance (%) 0.93 5
Abundance (#/m2)	4280 3	Pollution Indicative Species Biomass (%) 1.69
Biomass (g/m2)	1.18 3	Pollution Sensitive Species Abundance (%) 69.16 5
Carnivore-Omnivore Abundance (%)	90.65 5	Pollution Sensitive Species Biomass (%) 19.26
Deep Deposit Feeder Abundance (%)	2.80	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	2160	0.14400
Carinoma tremaphoros	80	0.03600
Gemma gemma	40	0.00800
Glycinde solitaria	680	0.05200
Haminoea solitaria	880	0.31200
Leitoscoloplos robustus	40	
Leitoscoloplos spp.		0.23600
Lyonsia hyalina	40	0.04800
Micrura leidyi	80	0.26800
Paraprionospio pinnata	40	0.02000
Pectinaria gouldii	80	0.02000
Phoronis spp.	80	0.01600
Spiochaetopterus costarum	40	0.01600
Stylochus ellipticus (Epi)	40	0.02000
Tellinidae	40	0.00800
Total Abundance w/ Epi.	4320	
Total Abundance w/o Epi.	4280	
Number of Taxa w/ Epi.	14	
Number of Taxa w/o Epi.	13	
Total Biomass w/ Epi.		1.20400
Total Biomass w/o Epi.		1.18400

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Mainstem	Station: 015	Rep: 01
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 04SEP01
	Sampled Area: 0.025 sq.m	Time: 15:21:00
BOTTOM ENVIRONMENT		
Depth (m): 2.0	Salinity (ppt): 14.76	Temperature (C): 26.19
Dissolved Oxygen (mg/l): 9.3	Sediment Silt-Clay (%): 4.88	Total Carbon (%): 0.09
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 2.00	Condition: Severely Degr.	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.41 1	Pollution Indicative Species Abundance (%) 37.50 1
Abundance (#/m2)	2560 5	Pollution Indicative Species Biomass (%) 34.72
Biomass (g/m2)	2.30 3	Pollution Sensitive Species Abundance (%) 7.81 1
Carnivore-Omnivore Abundance (%)	4.69 1	Pollution Sensitive Species Biomass (%) 47.74
Deep Deposit Feeder Abundance (%)	37.50	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Gemma gemma	160	0.00400
Glycinde solitaria	80	0.02400
Heteromastus filiformis	960	0.30400
Macoma balthica	80	0.67600
Macoma mitchelli	240	0.00800
Mulinia lateralis	760	0.78800
Mya arenaria	40	0.40000
Neanthes succinea	40	0.08800
Streblospio benedicti	200	0.01200
Total Abundance w/ Epi.	2560	
Total Abundance w/o Epi.	2560	
Number of Taxa w/ Epi.	9	
Number of Taxa w/o Epi.	9	
Total Biomass w/ Epi.		2.30400
Total Biomass w/o Epi.		2.30400

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Mainstem		Station: 015	Rep: 02
Gear: Modified Box Corer		Habitat: High Mesohaline Sand	Date: 04SEP01
		Sampled Area: 0.025 sq.m	Time: 15:21:00
BOTTOM ENVIRONMENT			
Depth (m): 2.0	Salinity (ppt): 14.76	Temperature (C): 26.19	
Dissolved Oxygen (mg/l): 9.3	Sediment Silt-Clay (%): 4.88	Total Carbon (%): 0.09	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score: 2.33	Condition: Degraded		# Attributes Scored: 6
	Value	Score	Value Score
Shannon-Wiener Index	2.62	3	Pollution Indicative Species Abundance (%) 36.84 1
Abundance (#/m2)	2280	5	Pollution Indicative Species Biomass (%) 66.83
Biomass (g/m2)	2.02	3	Pollution Sensitive Species Abundance (%) 8.77 1
Carnivore-Omnivore Abundance (%)	7.02	1	Pollution Sensitive Species Biomass (%) 22.38
Deep Deposit Feeder Abundance (%)	24.56		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Gemma gemma	400		0.01600
Glycinde solitaria	120		0.06000
Haminoea solitaria	40		0.01600
Heteromastus filiformis	560		0.18400
Macoma balthica	80		0.39200
Macoma mitchelli	240		0.00200
Mulinia lateralis	600		1.34800
Streblospio benedicti	240		0.00200
Total Abundance w/ Epi.	2280		
Total Abundance w/o Epi.	2280		
Number of Taxa w/ Epi.	8		
Number of Taxa w/o Epi.	8		
Total Biomass w/ Epi.			2.02000
Total Biomass w/o Epi.			2.02000

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Mainstem	Station: 015	Rep: 03
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 04SEP01
	Sampled Area: 0.025 sq.m	Time: 15:21:00
BOTTOM ENVIRONMENT		
Depth (m): 2.0	Salinity (ppt): 14.76	Temperature (C): 26.19
Dissolved Oxygen (mg/l): 9.3	Sediment Silt-Clay (%): 4.88	Total Carbon (%): 0.09
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 2.33	Condition: Degraded	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.63 3	Pollution Indicative Species Abundance (%) 39.13 1
Abundance (#/m2)	1840 5	Pollution Indicative Species Biomass (%) 24.89
Biomass (g/m2)	1.87 3	Pollution Sensitive Species Abundance (%) 8.70 1
Carnivore-Omnivore Abundance (%)	4.35 1	Pollution Sensitive Species Biomass (%) 32.37
Deep Deposit Feeder Abundance (%)	19.57	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Gemma gemma	400	0.00200
Glycinde solitaria	40	0.00200
Heteromastus filiformis	320	0.14400
Macoma balthica	80	0.42400
Macoma mitchelli	160	0.12400
Marenzelleria viridis	40	0.18000
Micrura leidyi	40	0.52800
Mulinia lateralis	640	0.46400
Streblospio benedicti	80	0.00200
Tubificoides spp.	40	0.00200
Total Abundance w/ Epi.	1840	
Total Abundance w/o Epi.	1840	
Number of Taxa w/ Epi.	10	
Number of Taxa w/o Epi.	10	
Total Biomass w/ Epi.		1.87200
Total Biomass w/o Epi.		1.87200

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patapsco & Back Rivers	Station: 022	Rep: 01
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 11SEP01
	Sampled Area: 0.022 sq.m	Time: 8:48:01
BOTTOM ENVIRONMENT		
Depth (m): 14.0	Salinity (ppt): 14.13	Temperature (C): 25.58
Dissolved Oxygen (mg/l): 1.2	Sediment Silt-Clay (%): 97.20	Total Carbon (%): 3.71
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 1.00	Condition: Severely Degr.	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	0.00 1	Pollution Indicative Species Abundance (%) 100.00 1
Abundance (#/m2)	0 1	Pollution Indicative Species Biomass (%) 100.00
Biomass (g/m2)	0.00 1	Pollution Sensitive Species Abundance (%) 0.00
Carnivore-Omnivore Abundance (%)	0.00	Pollution Sensitive Species Biomass (%) 0.00 1
Deep Deposit Feeder Abundance (%)	0.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
No Organisms Present		
Total Abundance w/ Epi.		
Total Abundance w/o Epi.		
Number of Taxa w/ Epi.	0	
Number of Taxa w/o Epi.	0	
Total Biomass w/ Epi.		
Total Biomass w/o Epi.		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patapsco & Back Rivers	Station: 022	Rep: 02
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 11SEP01
	Sampled Area: 0.022 sq.m	Time: 8:48:01
BOTTOM ENVIRONMENT		
Depth (m): 14.0	Salinity (ppt): 14.13	Temperature (C): 25.58
Dissolved Oxygen (mg/l): 1.2	Sediment Silt-Clay (%): 97.20	Total Carbon (%): 3.71
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 1.00	Condition: Severely Degr.	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	0.00 1	Pollution Indicative Species Abundance (%) 100.00 1
Abundance (#/m2)	0 1	Pollution Indicative Species Biomass (%) 100.00
Biomass (g/m2)	0.00 1	Pollution Sensitive Species Abundance (%) 0.00
Carnivore-Omnivore Abundance (%)	0.00	Pollution Sensitive Species Biomass (%) 0.00 1
Deep Deposit Feeder Abundance (%)	0.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
No Organisms Present		
Total Abundance w/ Epi.		
Total Abundance w/o Epi.		
Number of Taxa w/ Epi.	0	
Number of Taxa w/o Epi.	0	
Total Biomass w/ Epi.		
Total Biomass w/o Epi.		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 022	Rep: 03
Gear: Wildco Box Corer		Habitat: Low Mesohaline	Date: 11SEP01
		Sampled Area: 0.022 sq.m	Time: 8:48:01
BOTTOM ENVIRONMENT			
Depth (m): 14.0	Salinity (ppt): 14.13	Temperature (C): 25.58	
Dissolved Oxygen (mg/l): 1.2	Sediment Silt-Clay (%): 97.20	Total Carbon (%): 3.71	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score: 1.00	Condition: Severely Degr.		# Attributes Scored: 5
	Value	Score	Value Score
Shannon-Wiener Index	0.00	1	Pollution Indicative Species Abundance (%) 100.00 1
Abundance (#/m2)	0	1	Pollution Indicative Species Biomass (%) 100.00
Biomass (g/m2)	0.00	1	Pollution Sensitive Species Abundance (%) 0.00
Carnivore-Omnivore Abundance (%)	0.00		Pollution Sensitive Species Biomass (%) 0.00 1
Deep Deposit Feeder Abundance (%)	0.00		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
No Organisms Present			
Total Abundance w/ Epi.			
Total Abundance w/o Epi.			
Number of Taxa w/ Epi.	0		
Number of Taxa w/o Epi.	0		
Total Biomass w/ Epi.			
Total Biomass w/o Epi.			

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patapsco & Back Rivers	Station: 023	Rep: 01
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 11SEP01
	Sampled Area: 0.022 sq.m	Time: 8:13:34
BOTTOM ENVIRONMENT		
Depth (m): 7.0	Salinity (ppt): 11.37	Temperature (C): 25.58
Dissolved Oxygen (mg/l): 5.8	Sediment Silt-Clay (%): 69.65	Total Carbon (%): 3.28
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.00	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	1.46 1	Pollution Indicative Species Abundance (%) 0.93 5
Abundance (#/m2)	4860 3	Pollution Indicative Species Biomass (%) 0.05
Biomass (g/m2)	4.25 3	Pollution Sensitive Species Abundance (%) 11.11
Carnivore-Omnivore Abundance (%)	10.19	Pollution Sensitive Species Biomass (%) 66.70 3
Deep Deposit Feeder Abundance (%)	3.70	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Heteromastus filiformis	90	0.01800
Leptocheirus plumulosus	3465	0.54000
Macoma balthica	540	2.83500
Macoma mitchelli	135	0.00225
Melita nitida (Epi)	90	0.01350
Neanthes succinea	495	0.85050
Streblospio benedicti	45	0.00225
Tubificoides spp.	90	0.00225
Total Abundance w/ Epi.	4950	
Total Abundance w/o Epi.	4860	
Number of Taxa w/ Epi.	8	
Number of Taxa w/o Epi.	7	
Total Biomass w/ Epi.		4.26375
Total Biomass w/o Epi.		4.25025

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 023		Rep: 02	
Gear: Wildco Box Corer		Habitat: Low Mesohaline		Date: 11SEP01	
		Sampled Area: 0.022 sq.m		Time: 8:13:34	
BOTTOM ENVIRONMENT					
Depth (m): 7.0		Salinity (ppt): 11.37		Temperature (C): 25.58	
Dissolved Oxygen (mg/l): 5.8		Sediment Silt-Clay (%): 69.65		Total Carbon (%): 3.28	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.80		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	1.95	3	Pollution Indicative Species Abundance (%)	1.45	5
Abundance (#/m2)	3105	3	Pollution Indicative Species Biomass (%)	0.03	
Biomass (g/m2)	16.81	3	Pollution Sensitive Species Abundance (%)	13.04	
Carnivore-Omnivore Abundance (%)	13.04		Pollution Sensitive Species Biomass (%)	86.61	5
Deep Deposit Feeder Abundance (%)	2.90				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Americamysis bigelowi (Epi)	45		0.01350		
Carinoma tremaphoros	45		0.02700		
Heteromastus filiformis	90		0.07200		
Leptocheirus plumulosus	1710		0.45450		
Macoma balthica	405		14.55750		
Macoma mitchelli	450		0.05400		
Neanthes succinea	360		1.63800		
Streblospio benedicti	45		0.00450		
Total Abundance w/ Epi.	3150				
Total Abundance w/o Epi.	3105				
Number of Taxa w/ Epi.	8				
Number of Taxa w/o Epi.	7				
Total Biomass w/ Epi.			16.82100		
Total Biomass w/o Epi.			16.80750		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patapsco & Back Rivers	Station: 023	Rep: 03
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 11SEP01
	Sampled Area: 0.022 sq.m	Time: 8:13:34
BOTTOM ENVIRONMENT		
Depth (m): 7.0	Salinity (ppt): 11.37	Temperature (C): 25.58
Dissolved Oxygen (mg/l): 5.8	Sediment Silt-Clay (%): 69.65	Total Carbon (%): 3.28
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 4.20	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	1.73 3	Pollution Indicative Species Abundance (%) 4.17 5
Abundance (#/m2)	4320 3	Pollution Indicative Species Biomass (%) 0.99
Biomass (g/m2)	8.85 5	Pollution Sensitive Species Abundance (%) 10.42
Carnivore-Omnivore Abundance (%)	10.42	Pollution Sensitive Species Biomass (%) 87.82 5
Deep Deposit Feeder Abundance (%)	5.21	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Edotea triloba (Epi)	45	0.00225
Heteromastus filiformis	135	0.02250
Leptocheirus plumulosus	2880	0.60750
Macoma balthica	450	7.77150
Macoma mitchelli	135	0.02250
Melita nitida (Epi)	45	0.00900
Mulinia lateralis	90	0.08550
Neanthes succinea	450	0.32850
Streblospio benedicti	90	0.00225
Tubificoides spp.	90	0.00900
Total Abundance w/ Epi.	4410	
Total Abundance w/o Epi.	4320	
Number of Taxa w/ Epi.	10	
Number of Taxa w/o Epi.	8	
Total Biomass w/ Epi.		8.86050
Total Biomass w/o Epi.		8.84925

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Mainstem	Station: 024	Rep: 01
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 11SEP01
	Sampled Area: 0.022 sq.m	Time: 7:04:55
BOTTOM ENVIRONMENT		
Depth (m): 7.0	Salinity (ppt): 11.67	Temperature (C): 25.11
Dissolved Oxygen (mg/l): 6.6	Sediment Silt-Clay (%): 88.76	Total Carbon (%): 3.27
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.33	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	1.96 1	Pollution Indicative Species Abundance (%) 0.00
Abundance (#/m2)	450 1	Pollution Indicative Species Biomass (%) 0.00 5
Biomass (g/m2)	5.64 5	Pollution Sensitive Species Abundance (%) 30.00
Carnivore-Omnivore Abundance (%)	70.00 5	Pollution Sensitive Species Biomass (%) 85.96 3
Deep Deposit Feeder Abundance (%)	10.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	45	0.00900
Glycinde solitaria	45	0.04500
Heteromastus filiformis	45	0.02250
Macoma balthica	90	4.80600
Neanthes succinea	225	0.76050
Total Abundance w/ Epi.	450	
Total Abundance w/o Epi.	450	
Number of Taxa w/ Epi.	5	
Number of Taxa w/o Epi.	5	
Total Biomass w/ Epi.		5.64300
Total Biomass w/o Epi.		5.64300

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Mainstem	Station: 024	Rep: 02
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 11SEP01
	Sampled Area: 0.022 sq.m	Time: 7:04:55
BOTTOM ENVIRONMENT		
Depth (m): 7.0	Salinity (ppt): 11.67	Temperature (C): 25.11
Dissolved Oxygen (mg/l): 6.6	Sediment Silt-Clay (%): 88.76	Total Carbon (%): 3.27
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.00	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	1.83 1	Pollution Indicative Species Abundance (%) 0.00
Abundance (#/m2)	585 1	Pollution Indicative Species Biomass (%) 0.00 5
Biomass (g/m2)	1.73 3	Pollution Sensitive Species Abundance (%) 23.08
Carnivore-Omnivore Abundance (%)	69.23 5	Pollution Sensitive Species Biomass (%) 33.90 3
Deep Deposit Feeder Abundance (%)	7.69	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	180	0.02700
Macoma balthica	135	0.58500
Neanthes succinea	225	1.11150
Tubificoides spp.	45	0.00225
Total Abundance w/ Epi.	585	
Total Abundance w/o Epi.	585	
Number of Taxa w/ Epi.	4	
Number of Taxa w/o Epi.	4	
Total Biomass w/ Epi.		1.72575
Total Biomass w/o Epi.		1.72575

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Mainstem	Station: 024	Rep: 03
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 11SEP01
	Sampled Area: 0.022 sq.m	Time: 7:04:55
BOTTOM ENVIRONMENT		
Depth (m): 7.0	Salinity (ppt): 11.67	Temperature (C): 25.11
Dissolved Oxygen (mg/l): 6.6	Sediment Silt-Clay (%): 88.76	Total Carbon (%): 3.27
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.00	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.59 3	Pollution Indicative Species Abundance (%) 15.00
Abundance (#/m2)	900 1	Pollution Indicative Species Biomass (%) 0.27 5
Biomass (g/m2)	0.85 3	Pollution Sensitive Species Abundance (%) 15.00
Carnivore-Omnivore Abundance (%)	50.00 5	Pollution Sensitive Species Biomass (%) 0.27 1
Deep Deposit Feeder Abundance (%)	20.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	225	0.04500
Heteromastus filiformis	135	0.05850
Imm. Tubificid w/o Cap. Chaete	45	
Macoma balthica	135	0.00225
Macoma mitchelli	45	0.00900
Neanthes succinea	225	0.72900
Oligochaeta		0.00225
Streblospio benedicti	90	0.00225
Total Abundance w/ Epi.	900	
Total Abundance w/o Epi.	900	
Number of Taxa w/ Epi.	7	
Number of Taxa w/o Epi.	7	
Total Biomass w/ Epi.		0.84825
Total Biomass w/o Epi.		0.84825

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Upper Western Shore	Station: 026	Rep: 01
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 11SEP01
	Sampled Area: 0.022 sq.m	Time: 11:42:24
BOTTOM ENVIRONMENT		
Depth (m): 6.0	Salinity (ppt): 8.06	Temperature (C): 24.98
Dissolved Oxygen (mg/l): 7.3	Sediment Silt-Clay (%): 88.76	Total Carbon (%): 3.2
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.80	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	2.44 3	Pollution Indicative Species Abundance (%) 5.88 5
Abundance (#/m2)	2295 5	Pollution Indicative Species Biomass (%) 0.02
Biomass (g/m2)	40.20 1	Pollution Sensitive Species Abundance (%) 13.73
Carnivore-Omnivore Abundance (%)	15.69	Pollution Sensitive Species Biomass (%) 98.53 5
Deep Deposit Feeder Abundance (%)	23.53	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	45	0.00450
Coelotanypus spp.	45	0.00225
Cyathura polita	225	0.04050
Eteone heteropoda	45	0.00225
Heteromastus filiformis	90	0.00225
Leptocheirus plumulosus	1080	0.12600
Macoma mitchelli	180	0.45000
Marenzelleria viridis	45	0.20250
Melita nitida (Epi)	180	0.00225
Rangia cuneata	45	39.36150
Streblospio benedicti	45	0.00225
Tubificoides spp.	450	0.00225
Total Abundance w/ Epi.	2475	
Total Abundance w/o Epi.	2295	
Number of Taxa w/ Epi.	12	
Number of Taxa w/o Epi.	11	
Total Biomass w/ Epi.		40.19850
Total Biomass w/o Epi.		40.19625

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Upper Western Shore	Station: 026	Rep: 02
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 11SEP01
	Sampled Area: 0.022 sq.m	Time: 11:42:24
BOTTOM ENVIRONMENT		
Depth (m): 6.0	Salinity (ppt): 8.06	Temperature (C): 24.98
Dissolved Oxygen (mg/l): 7.3	Sediment Silt-Clay (%): 88.76	Total Carbon (%): 3.2
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.80	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	2.74 5	Pollution Indicative Species Abundance (%) 5.26 5
Abundance (#/m2)	2565 3	Pollution Indicative Species Biomass (%) 0.02
Biomass (g/m2)	40.21 1	Pollution Sensitive Species Abundance (%) 31.58
Carnivore-Omnivore Abundance (%)	31.58	Pollution Sensitive Species Biomass (%) 97.49 5
Deep Deposit Feeder Abundance (%)	1.75	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	45	0.00450
Chironomidae		0.00225
Cryptochironomus spp.	45	
Cyathura polita	495	0.13950
Eteone heteropoda	90	0.00450
Leptocheirus plumulosus	855	0.17550
Macoma balthica	45	0.14850
Macoma mitchelli	495	0.81450
Melita nitida (Epi)	270	0.02250
Neanthes succinea	90	0.00225
Procladius spp.	45	
Rangia cuneata	270	38.91150
Streblospio benedicti	45	0.00225
Tubificoides spp.	45	0.00225
Total Abundance w/ Epi.	2835	
Total Abundance w/o Epi.	2565	
Number of Taxa w/ Epi.	13	
Number of Taxa w/o Epi.	12	
Total Biomass w/ Epi.		40.23000
Total Biomass w/o Epi.		40.20750

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Upper Western Shore	Station: 026	Rep: 03
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 11SEP01
	Sampled Area: 0.022 sq.m	Time: 11:42:24
BOTTOM ENVIRONMENT		
Depth (m): 6.0	Salinity (ppt): 8.06	Temperature (C): 24.98
Dissolved Oxygen (mg/l): 7.3	Sediment Silt-Clay (%): 88.76	Total Carbon (%): 3.2
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 4.60	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	2.71 5	Pollution Indicative Species Abundance (%) 3.70 5
Abundance (#/m2)	2430 5	Pollution Indicative Species Biomass (%) 0.62
Biomass (g/m2)	18.59 3	Pollution Sensitive Species Abundance (%) 24.07
Carnivore-Omnivore Abundance (%)	16.67	Pollution Sensitive Species Biomass (%) 98.34 5
Deep Deposit Feeder Abundance (%)	9.26	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	135	0.00900
Coelotanypus spp.	45	0.00225
Cyathura polita	225	0.02700
Heteromastus filiformis	45	0.00225
Leptocheirus plumulosus	1035	0.16200
Macoma balthica	90	0.17100
Macoma mitchelli	360	0.01800
Marenzelleria viridis	90	0.33300
Melita nitida (Epi)	180	0.00900
Mulinia lateralis	45	0.11250
Rangia cuneata	180	17.74800
Tubificoides spp.	180	0.00225
Total Abundance w/ Epi.	2610	
Total Abundance w/o Epi.	2430	
Number of Taxa w/ Epi.	12	
Number of Taxa w/o Epi.	11	
Total Biomass w/ Epi.		18.59625
Total Biomass w/o Epi.		18.58725

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Upper Eastern Shore		Station: 029		Rep: 01	
Gear: Wildco Box Corer		Habitat: Oligohaline		Date: 18SEP01	
		Sampled Area: 0.022 sq.m		Time: 12:57:34	
BOTTOM ENVIRONMENT					
Depth (m): 6.5		Salinity (ppt): 3.41		Temperature (C): 22.74	
Dissolved Oxygen (mg/l): 6.8		Sediment Silt-Clay (%): 64.53		Total Carbon (%): 2.15	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.80		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.19		Oligohaline Pollution Indicative Spp. Abund.	13.56	5
Abundance (#/m2)	2655	5	Tolerance Score	6.51	3
Deep Deposit Feeder Abundance (%)	13.56		Oligohaline Pollution Sensitive Spp. Abund.	27.12	5
Carnivore-Omnivore Abundance (%)	6.78	1	Tanypodinae/Chironomidae Abundance Ratio	0.00	
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Cyathura polita	180		0.02700		
Edotea triloba (Epi)	45		0.02250		
Gammarus daiberi (Epi)	180		0.02700		
Hobsonia florida	225		0.01800		
Imm. Tubificid w/o Cap. Chaete *	90				
Limnodrilus hoffmeisteri	90				
Marenzelleria viridis	720		0.77400		
Melita nitida (Epi)	90		0.01800		
Oligochaeta			0.00225		
Rangia cuneata	1170		151.56450		
Tubificoides spp.	180		0.01800		
Total Abundance w/ Epi.	2970				
Total Abundance w/o Epi.	2655				
Number of Taxa w/ Epi.	9				
Number of Taxa w/o Epi.	6				
Total Biomass w/ Epi.			152.47125		
Total Biomass w/o Epi.			152.40375		

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Upper Eastern Shore		Station: 029	Rep: 02
Gear: Wildco Box Corer		Habitat: Oligohaline	Date: 18SEP01
		Sampled Area: 0.022 sq.m	Time: 12:57:34
BOTTOM ENVIRONMENT			
Depth (m): 6.5	Salinity (ppt): 3.41	Temperature (C): 22.74	
Dissolved Oxygen (mg/l): 6.8	Sediment Silt-Clay (%): 64.53	Total Carbon (%): 2.15	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score: 3.33	Condition: Meets Goal		# Attributes Scored: 6
	Value	Score	Value Score
Shannon-Wiener Index	2.38		Oligohaline Pollution Indicative Spp. Abund. 10.81 5
Abundance (#/m2)	1665	5	Tolerance Score 6.35 3
Deep Deposit Feeder Abundance (%)	2.70		Oligohaline Pollution Sensitive Spp. Abund. 40.54 5
Carnivore-Omnivore Abundance (%)	10.81	1	Tanypodinae/Chironomidae Abundance Ratio 100.00 1
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Americamysis bigelowi (Epi)	45		0.01350
Ameroculodes species complex	90		0.00900
Balanus improvisus (Epi)	45		0.40500
Coelotanypus spp.	90		0.00225
Cyathura polita	90		0.00225
Edotea triloba (Epi)	45		0.00225
Hobsonia florida	225		0.00225
Leptocheirus plumulosus	45		0.00225
Limnodrilus hoffmeisteri	45		
Marenzelleria viridis	675		0.44550
Oligochaeta			0.00225
Rangia cuneata	405		60.51600
Total Abundance w/ Epi.	1800		
Total Abundance w/o Epi.	1665		
Number of Taxa w/ Epi.	11		
Number of Taxa w/o Epi.	8		
Total Biomass w/ Epi.			61.40250
Total Biomass w/o Epi.			60.98175

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Upper Eastern Shore		Station: 029	Rep: 03
Gear: Wildco Box Corer		Habitat: Oligohaline	Date: 18SEP01
		Sampled Area: 0.022 sq.m	Time: 12:57:34
BOTTOM ENVIRONMENT			
Depth (m): 6.5	Salinity (ppt): 3.41	Temperature (C): 22.74	
Dissolved Oxygen (mg/l): 6.8	Sediment Silt-Clay (%): 64.53	Total Carbon (%): 2.15	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score: 3.67	Condition: Meets Goal		# Attributes Scored: 6
	Value	Score	Value Score
Shannon-Wiener Index	2.09		Oligohaline Pollution Indicative Spp. Abund. 12.36 5
Abundance (#/m2)	4005	3	Tolerance Score 6.68 3
Deep Deposit Feeder Abundance (%)	11.24		Oligohaline Pollution Sensitive Spp. Abund. 38.20 5
Carnivore-Omnivore Abundance (%)	4.49	1	Tanypodinae/Chironomidae Abundance Ratio 0.00 5
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Chironomidae			0.00225
Cyathura polita	135		0.01350
Gammarus daiberi (Epi)	135		0.00225
Hobsonia florida	405		0.04500
Imm. Tubificid w/o Cap. Chaete	315		
Marenzelleria viridis	1530		1.19700
Mytilopsis leucophaeata (Epi)	45		6.04395
Oligochaeta			0.00225
Polypedilum halterale group	45		
Rangia cuneata	1440		139.76550
Tubificoides spp.	135		0.01350
Total Abundance w/ Epi.	4185		
Total Abundance w/o Epi.	4005		
Number of Taxa w/ Epi.	9		
Number of Taxa w/o Epi.	7		
Total Biomass w/ Epi.			147.08520
Total Biomass w/o Epi.			141.03900

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River		Station: 036	Rep: 01
Gear: Wildco Box Corer		Habitat: Tidal Freshwater	Date: 17SEP01
		Sampled Area: 0.022 sq.m	Time: 11:13:10
BOTTOM ENVIRONMENT			
Depth (m): 3.0	Salinity (ppt): 0.16	Temperature (C): 23.16	
Dissolved Oxygen (mg/l): 7.7	Sediment Silt-Clay (%): 83.69	Total Carbon (%): 2.53	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score: 2.50	Condition: Degraded		# Attributes Scored: 4
	Value	Score	Value Score
Shannon-Wiener Index	2.02		T.F. Pollution Indicative Spp. Abund. (%) 68.75 3
Abundance (#/m2)	5760	1	Tolerance Score 9.14 3
Deep Deposit Feeder Abundance (%)	91.41	3	Limnodrilus Abundance (%) 68.75
Carnivore-Omnivore Abundance (%)	6.25		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Amnicola limosa (Epi)	45		0.06750
Aulodrilus pigueti	180		
Branchiura sowerbyi	855		1.96200
Chironomidae			0.00225
Chironomus spp.	45		
Coelotanypus spp.	315		0.06750
Corbicula fluminea	135		85.77900
Gammarus spp. (Epi)	45		0.01350
Imm. Tubificid w/ Cap. Chaete	270		
Imm. Tubificid w/o Cap. Chaete *	3240		
Limnodrilus hoffmeisteri	720		
Oligochaeta			0.44550
Total Abundance w/ Epi.	5850		
Total Abundance w/o Epi.	5760		
Number of Taxa w/ Epi.	9		
Number of Taxa w/o Epi.	7		
Total Biomass w/ Epi.			88.33725
Total Biomass w/o Epi.			88.25625

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Station: 036		Rep: 02
Watershed: Potomac River	Habitat: Tidal Freshwater	Date: 17SEP01
Gear: Wildco Box Corer	Sampled Area: 0.022 sq.m	Time: 11:13:10
BOTTOM ENVIRONMENT		
Depth (m): 3.0	Salinity (ppt): 0.16	Temperature (C): 23.16
Dissolved Oxygen (mg/l): 7.7	Sediment Silt-Clay (%): 83.69	Total Carbon (%): 2.53
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 2.00	Condition: Severely Degr.	# Attributes Scored: 4
	Value Score	Value Score
Shannon-Wiener Index	1.76	T.F. Pollution Indicative Spp. Abund. (%) 75.74 3
Abundance (#/m2)	7605 1	Tolerance Score 9.35 1
Deep Deposit Feeder Abundance (%)	92.31 3	Limnodrilus Abundance (%) 75.74
Carnivore-Omnivore Abundance (%)	5.92	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Aulodrilus plurisetia	90	
Branchiura sowerbyi	720	1.22850
Chironomidae		0.00225
Coelotanypus spp.	405	0.04950
Corbicula fluminea	135	50.65200
Cryptochironomus spp.	45	
Hirudinea (Epi)	45	0.03150
Imm. Tubificid w/ Cap. Chaete	450	
Imm. Tubificid w/o Cap. Chaete *	4950	
Limnodrilus hoffmeisteri	810	
Oligochaeta		0.52200
Total Abundance w/ Epi.	7650	
Total Abundance w/o Epi.	7605	
Number of Taxa w/ Epi.	8	
Number of Taxa w/o Epi.	7	
Total Biomass w/ Epi.		52.48575
Total Biomass w/o Epi.		52.45425

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River		Station: 036		Rep: 03	
Gear: Wildco Box Corer		Habitat: Tidal Freshwater		Date: 17SEP01	
		Sampled Area: 0.022 sq.m		Time: 11:13:10	
BOTTOM ENVIRONMENT					
Depth (m): 3.0		Salinity (ppt): 0.16		Temperature (C): 23.16	
Dissolved Oxygen (mg/l): 7.7		Sediment Silt-Clay (%): 83.69		Total Carbon (%): 2.53	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.00		Condition: Meets Goal		# Attributes Scored: 4	
	Value	Score		Value	Score
Shannon-Wiener Index	1.84		T.F. Pollution Indicative Spp. Abund. (%)	77.67	3
Abundance (#/m2)	4635	3	Tolerance Score	9.32	3
Deep Deposit Feeder Abundance (%)	94.17	3	Limnodrilus Abundance (%)	77.67	
Carnivore-Omnivore Abundance (%)	2.91				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Aulodrilus pigueti	180				
Branchiura sowerbyi	405		0.37800		
Coelotanypus spp.	135		0.00225		
Corbicula fluminea	45		45.35100		
Gammarus spp. (Epi)	45		0.00450		
Imm. Tubificid w/ Cap. Chaete	180				
Imm. Tubificid w/o Cap. Chaete *	2880				
Limnodrilus hoffmeisteri	720				
Oligochaeta			0.37800		
Pisidium spp.	90		0.01800		
Total Abundance w/ Epi.	4680				
Total Abundance w/o Epi.	4635				
Number of Taxa w/ Epi.	8				
Number of Taxa w/o Epi.	7				
Total Biomass w/ Epi.			46.13175		
Total Biomass w/o Epi.			46.12725		

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River	Station: 040	Rep: 01
Gear: Wildco Box Corer	Habitat: Oligohaline	Date: 17SEP01
	Sampled Area: 0.022 sq.m	Time: 13:55:23
BOTTOM ENVIRONMENT		
Depth (m): 9.0	Salinity (ppt): 4.38	Temperature (C): 23.27
Dissolved Oxygen (mg/l): 8.0	Sediment Silt-Clay (%): 95.59	Total Carbon (%): 2.58
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 2.33	Condition: Degraded	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	1.45	Oligohaline Pollution Indicative Spp. Abund. 87.76 3
Abundance (#/m2)	2205 5	Tolerance Score 6.20 3
Deep Deposit Feeder Abundance (%)	2.04	Oligohaline Pollution Sensitive Spp. Abund. 0.00 1
Carnivore-Omnivore Abundance (%)	12.24 1	Tanypodinae/Chironomidae Abundance Ratio 100.00 1
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	45	0.03150
Coelotanypus spp.	45	0.02250
Cyathura polita	225	0.06750
Leptocheirus plumulosus	1530	0.19350
Streblospio benedicti	315	0.03600
Tubificoides spp.	45	0.01800
Total Abundance w/ Epi.	2205	
Total Abundance w/o Epi.	2205	
Number of Taxa w/ Epi.	6	
Number of Taxa w/o Epi.	6	
Total Biomass w/ Epi.		0.36900
Total Biomass w/o Epi.		0.36900

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River	Station: 040	Rep: 02		
Gear: Wildco Box Corer	Habitat: Oligohaline	Date: 17SEP01		
	Sampled Area: 0.022 sq.m	Time: 13:55:23		
BOTTOM ENVIRONMENT				
Depth (m): 9.0	Salinity (ppt): 4.38	Temperature (C): 23.27		
Dissolved Oxygen (mg/l): 8.0	Sediment Silt-Clay (%): 95.59	Total Carbon (%): 2.58		
BENTHIC INDEX OF BIOTIC INTEGRITY				
B-IBI Score: 2.33	Condition: Degraded	# Attributes Scored: 6		
	Value Score	Value Score		
Shannon-Wiener Index	1.54	Oligohaline Pollution Indicative Spp. Abund.	91.78	3
Abundance (#/m2)	3285	Tolerance Score	6.10	3
Deep Deposit Feeder Abundance (%)	2.74	Oligohaline Pollution Sensitive Spp. Abund.	0.00	1
Carnivore-Omnivore Abundance (%)	4.11	Tanypodinae/Chironomidae Abundance Ratio	100.00	1
BENTHIC ABUNDANCE (per sq. meter)				
TAXA	Abundance (#/m2)	Biomass (g/m2)		
Ameroculodes species complex	90	0.00225		
Carinoma tremaphoros	45	0.00225		
Coelotanypus spp.	45	0.00225		
Cyathura polita	45	0.04950		
Edotea triloba (Epi)	45	0.00225		
Hobsonia florida	45	0.00225		
Leptocheirus plumulosus	2250	0.29250		
Melita nitida (Epi)	180	0.00225		
Rangia cuneata	45	0.01350		
Streblospio benedicti	630	0.00225		
Tubificoides spp.	90	0.00225		
Total Abundance w/ Epi.	3510			
Total Abundance w/o Epi.	3285			
Number of Taxa w/ Epi.	11			
Number of Taxa w/o Epi.	9			
Total Biomass w/ Epi.		0.37350		
Total Biomass w/o Epi.		0.36900		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River	Station: 040	Rep: 03
Gear: Wildco Box Corer	Habitat: Oligohaline	Date: 17SEP01
	Sampled Area: 0.022 sq.m	Time: 13:55:23
BOTTOM ENVIRONMENT		
Depth (m): 9.0	Salinity (ppt): 4.38	Temperature (C): 23.27
Dissolved Oxygen (mg/l): 8.0	Sediment Silt-Clay (%): 95.59	Total Carbon (%): 2.58
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 2.33	Condition: Degraded	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	1.68	Oligohaline Pollution Indicative Spp. Abund. 90.16 3
Abundance (#/m2)	2745 5	Tolerance Score 6.15 3
Deep Deposit Feeder Abundance (%)	0.00	Oligohaline Pollution Sensitive Spp. Abund. 0.00 1
Carnivore-Omnivore Abundance (%)	11.48 1	Tanypodinae/Chironomidae Abundance Ratio 100.00 1
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	45	0.00225
Coelotanypus spp.	135	0.00225
Cyathura polita	180	0.10800
Leptocheirus plumulosus	1440	0.10800
Melita nitida (Epi)	45	0.00225
Rangia cuneata	45	0.00900
Streblospio benedicti	900	0.03150
Total Abundance w/ Epi.	2790	
Total Abundance w/o Epi.	2745	
Number of Taxa w/ Epi.	7	
Number of Taxa w/o Epi.	6	
Total Biomass w/ Epi.		0.26325
Total Biomass w/o Epi.		0.26100

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River	Station: 043	Rep: 01
Gear: Modified Box Corer	Habitat: Low Mesohaline	Date: 06SEP01
	Sampled Area: 0.025 sq.m	Time: 11:14:26
BOTTOM ENVIRONMENT		
Depth (m): 3.0	Salinity (ppt): 9.77	Temperature (C): 26.71
Dissolved Oxygen (mg/l): 6.0	Sediment Silt-Clay (%): 10.18	Total Carbon (%): 0.12
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.80	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	2.73 5	Pollution Indicative Species Abundance (%) 1.54 5
Abundance (#/m2)	2600 3	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	208.68 1	Pollution Sensitive Species Abundance (%) 43.08
Carnivore-Omnivore Abundance (%)	10.77	Pollution Sensitive Species Biomass (%) 99.61 5
Deep Deposit Feeder Abundance (%)	12.31	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	120	0.00200
Cyathura polita	40	0.00200
Heteromastus filiformis	280	0.43600
Leptocheirus plumulosus	600	0.02400
Macoma balthica	40	2.76800
Macoma mitchelli	280	0.00200
Marenzelleria viridis	880	1.08000
Micrura leidyi	40	0.34800
Neanthes succinea	80	0.00200
Rangia cuneata	160	204.01600
Streblospio benedicti	40	0.00200
Tubificoides spp.	40	0.00200
Total Abundance w/ Epi.	2600	
Total Abundance w/o Epi.	2600	
Number of Taxa w/ Epi.	12	
Number of Taxa w/o Epi.	12	
Total Biomass w/ Epi.		208.68400
Total Biomass w/o Epi.		208.68400

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River	Station: 043	Rep: 02
Gear: Modified Box Corer	Habitat: Low Mesohaline	Date: 06SEP01
	Sampled Area: 0.025 sq.m	Time: 11:14:26
BOTTOM ENVIRONMENT		
Depth (m): 3.0	Salinity (ppt): 9.77	Temperature (C): 26.71
Dissolved Oxygen (mg/l): 6.0	Sediment Silt-Clay (%): 10.18	Total Carbon (%): 0.12
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 4.20	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	2.67 5	Pollution Indicative Species Abundance (%) 0.00 5
Abundance (#/m2)	2320 5	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	65.06 1	Pollution Sensitive Species Abundance (%) 50.00
Carnivore-Omnivore Abundance (%)	6.90	Pollution Sensitive Species Biomass (%) 98.78 5
Deep Deposit Feeder Abundance (%)	18.97	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	80	0.09600
Cyathura polita	80	0.06800
Heteromastus filiformis	280	0.61600
Leptocheirus plumulosus	400	0.06000
Macoma mitchelli	240	0.02000
Marenzelleria viridis	760	1.26800
Rangia cuneata	320	62.93200
Tubificoides spp.	160	0.00200
Total Abundance w/ Epi.	2320	
Total Abundance w/o Epi.	2320	
Number of Taxa w/ Epi.	8	
Number of Taxa w/o Epi.	8	
Total Biomass w/ Epi.		65.06200
Total Biomass w/o Epi.		65.06200

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River		Station: 043		Rep: 03	
Gear: Modified Box Corer		Habitat: Low Mesohaline		Date: 06SEP01	
		Sampled Area: 0.025 sq.m		Time: 11:14:26	
BOTTOM ENVIRONMENT					
Depth (m): 3.0		Salinity (ppt): 9.77		Temperature (C): 26.71	
Dissolved Oxygen (mg/l): 6.0		Sediment Silt-Clay (%): 10.18		Total Carbon (%): 0.12	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.80		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.12	3	Pollution Indicative Species Abundance (%)	0.00	5
Abundance (#/m2)	2160	5	Pollution Indicative Species Biomass (%)	0.00	
Biomass (g/m2)	39.07	1	Pollution Sensitive Species Abundance (%)	70.37	
Carnivore-Omnivore Abundance (%)	7.41		Pollution Sensitive Species Biomass (%)	97.40	5
Deep Deposit Feeder Abundance (%)	14.81				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Carinoma tremaphoros	40		0.10400		
Heteromastus filiformis	280		0.65200		
Leptocheirus plumulosus	120		0.02400		
Macoma balthica	80		6.06400		
Macoma mitchelli	40		0.01600		
Marenzelleria viridis	1240		1.28000		
Neanthes succinea	120		0.21600		
Rangia cuneata	200		30.71200		
Tubificoides spp.	40		0.00200		
Total Abundance w/ Epi.	2160				
Total Abundance w/o Epi.	2160				
Number of Taxa w/ Epi.	9				
Number of Taxa w/o Epi.	9				
Total Biomass w/ Epi.			39.07000		
Total Biomass w/o Epi.			39.07000		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River	Station: 044	Rep: 01
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 06SEP01
	Sampled Area: 0.022 sq.m	Time: 10:59:30
BOTTOM ENVIRONMENT		
Depth (m): 14.0	Salinity (ppt): 11.53	Temperature (C): 26.49
Dissolved Oxygen (mg/l): 2.3	Sediment Silt-Clay (%): 92.22	Total Carbon (%): 2.14
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 1.80	Condition: Severely Degr.	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	1.58 1	Pollution Indicative Species Abundance (%) 0.00 5
Abundance (#/m2)	135 1	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	0.06 1	Pollution Sensitive Species Abundance (%) 0.00
Carnivore-Omnivore Abundance (%)	66.67	Pollution Sensitive Species Biomass (%) 0.00 1
Deep Deposit Feeder Abundance (%)	0.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	45	0.02250
Leptocheirus plumulosus	45	0.02250
Neanthes succinea	45	0.01800
Total Abundance w/ Epi.	135	
Total Abundance w/o Epi.	135	
Number of Taxa w/ Epi.	3	
Number of Taxa w/o Epi.	3	
Total Biomass w/ Epi.		0.06300
Total Biomass w/o Epi.		0.06300

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River	Station: 044	Rep: 02
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 06SEP01
	Sampled Area: 0.022 sq.m	Time: 10:59:30
BOTTOM ENVIRONMENT		
Depth (m): 14.0	Salinity (ppt): 11.53	Temperature (C): 26.49
Dissolved Oxygen (mg/l): 2.3	Sediment Silt-Clay (%): 92.22	Total Carbon (%): 2.14
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 2.20	Condition: Degraded	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	1.92 3	Pollution Indicative Species Abundance (%) 0.00 5
Abundance (#/m2)	225 1	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	0.18 1	Pollution Sensitive Species Abundance (%) 0.00
Carnivore-Omnivore Abundance (%)	60.00	Pollution Sensitive Species Biomass (%) 0.00 1
Deep Deposit Feeder Abundance (%)	20.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Haminoea solitaria	90	0.04050
Heteromastus filiformis	45	0.02700
Macoma mitchelli	45	0.11250
Neanthes succinea	45	0.00450
Total Abundance w/ Epi.	225	
Total Abundance w/o Epi.	225	
Number of Taxa w/ Epi.	4	
Number of Taxa w/o Epi.	4	
Total Biomass w/ Epi.		0.18450
Total Biomass w/o Epi.		0.18450

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River	Station: 044	Rep: 03
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 06SEP01
	Sampled Area: 0.022 sq.m	Time: 10:59:30
BOTTOM ENVIRONMENT		
Depth (m): 14.0	Salinity (ppt): 11.53	Temperature (C): 26.49
Dissolved Oxygen (mg/l): 2.3	Sediment Silt-Clay (%): 92.22	Total Carbon (%): 2.14
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 1.40	Condition: Severely Degr.	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	1.52 1	Pollution Indicative Species Abundance (%) 47.06 1
Abundance (#/m2)	765 3	Pollution Indicative Species Biomass (%) 3.70
Biomass (g/m2)	0.24 1	Pollution Sensitive Species Abundance (%) 0.00
Carnivore-Omnivore Abundance (%)	11.76	Pollution Sensitive Species Biomass (%) 0.00 1
Deep Deposit Feeder Abundance (%)	41.18	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	45	0.02250
Neanthes succinea	45	0.20700
Streblospio benedicti	360	0.00900
Tubificoides spp.	315	0.00450
Total Abundance w/ Epi.	765	
Total Abundance w/o Epi.	765	
Number of Taxa w/ Epi.	4	
Number of Taxa w/o Epi.	4	
Total Biomass w/ Epi.		0.24300
Total Biomass w/o Epi.		0.24300

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Morgantown Discharge	Station: 047	Rep: 01
Gear: Modified Box Corer	Habitat: Low Mesohaline	Date: 06SEP01
	Sampled Area: 0.025 sq.m	Time: 11:23:43
BOTTOM ENVIRONMENT		
Depth (m): 2.5	Salinity (ppt): 10.29	Temperature (C): 26.61
Dissolved Oxygen (mg/l): 4.9	Sediment Silt-Clay (%): 4.30	Total Carbon (%): 0.17
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.80	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	2.70 5	Pollution Indicative Species Abundance (%) 0.00 5
Abundance (#/m2)	3880 3	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	201.78 1	Pollution Sensitive Species Abundance (%) 47.42
Carnivore-Omnivore Abundance (%)	6.19	Pollution Sensitive Species Biomass (%) 97.53 5
Deep Deposit Feeder Abundance (%)	15.46	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	40	0.00800
Cyathura polita	40	0.10800
Edotea triloba (Epi)	40	0.00200
Heteromastus filiformis	480	0.62000
Leptocheirus plumulosus	680	0.10800
Macoma balthica	280	15.90400
Macoma mitchelli	560	0.25600
Marenzelleria viridis	1360	2.27600
Micrura leidyi	40	3.63200
Neanthes succinea	120	0.35200
Rangia cuneata	160	178.51200
Tubificoides spp.	120	0.00400
Total Abundance w/ Epi.	3920	
Total Abundance w/o Epi.	3880	
Number of Taxa w/ Epi.	12	
Number of Taxa w/o Epi.	11	
Total Biomass w/ Epi.		201.78200
Total Biomass w/o Epi.		201.78000

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Morgantown Discharge	Station: 047	Rep: 02
Gear: Modified Box Corer	Habitat: Low Mesohaline	Date: 06SEP01
	Sampled Area: 0.025 sq.m	Time: 11:23:43
BOTTOM ENVIRONMENT		
Depth (m): 2.5	Salinity (ppt): 10.29	Temperature (C): 26.61
Dissolved Oxygen (mg/l): 4.9	Sediment Silt-Clay (%): 4.30	Total Carbon (%): 0.17
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.80	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	3.12 5	Pollution Indicative Species Abundance (%) 7.58 5
Abundance (#/m2)	5280 3	Pollution Indicative Species Biomass (%) 0.07
Biomass (g/m2)	46.11 1	Pollution Sensitive Species Abundance (%) 29.55
Carnivore-Omnivore Abundance (%)	9.85	Pollution Sensitive Species Biomass (%) 90.67 5
Deep Deposit Feeder Abundance (%)	28.03	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	120	0.04000
Cyathura polita	40	0.05600
Edotea triloba (Epi)	160	0.01600
Edwardsia elegans	40	0.00200
Eteone heteropoda	160	0.03200
Heteromastus filiformis	960	2.23600
Leptocheirus plumulosus	1200	0.10000
Macoma balthica	480	20.10000
Macoma mitchelli	320	0.23200
Marenzelleria viridis	920	1.20400
Micrura leidyi	80	1.46400
Neanthes succinea	80	0.19200
Rangia cuneata	120	20.44800
Streblospio benedicti	240	0.00200
Tubificoides spp.	520	0.00200
Total Abundance w/ Epi.	5440	
Total Abundance w/o Epi.	5280	
Number of Taxa w/ Epi.	15	
Number of Taxa w/o Epi.	14	
Total Biomass w/ Epi.		46.12600
Total Biomass w/o Epi.		46.11000

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Morgantown Discharge	Station: 047	Rep: 03
Gear: Modified Box Corer	Habitat: Low Mesohaline	Date: 06SEP01
	Sampled Area: 0.025 sq.m	Time: 11:23:43
BOTTOM ENVIRONMENT		
Depth (m): 2.5	Salinity (ppt): 10.29	Temperature (C): 26.61
Dissolved Oxygen (mg/l): 4.9	Sediment Silt-Clay (%): 4.30	Total Carbon (%): 0.17
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 4.20	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	3.02 5	Pollution Indicative Species Abundance (%) 9.52 5
Abundance (#/m2)	3360 3	Pollution Indicative Species Biomass (%) 0.01
Biomass (g/m2)	19.35 3	Pollution Sensitive Species Abundance (%) 36.90
Carnivore-Omnivore Abundance (%)	9.52	Pollution Sensitive Species Biomass (%) 87.48 5
Deep Deposit Feeder Abundance (%)	19.05	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	120	0.04800
Cyathura polita	40	0.01600
Heteromastus filiformis	520	1.20400
Leptocheirus plumulosus	760	0.04000
Macoma balthica	200	15.48400
Macoma mitchelli	120	0.00200
Marenzelleria viridis	760	1.11200
Micrura leidyi	40	0.87200
Neanthes succinea	120	0.25200
Rangia cuneata	240	0.31600
Streblospio benedicti	320	0.00200
Tubificoides spp.	120	0.00200
Total Abundance w/ Epi.	3360	
Total Abundance w/o Epi.	3360	
Number of Taxa w/ Epi.	12	
Number of Taxa w/o Epi.	12	
Total Biomass w/ Epi.		19.35000
Total Biomass w/o Epi.		19.35000

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River	Station: 051	Rep: 01
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 06SEP01
	Sampled Area: 0.025 sq.m	Time: 12:40:59
BOTTOM ENVIRONMENT		
Depth (m): 2.9	Salinity (ppt): 13.80	Temperature (C): 25.88
Dissolved Oxygen (mg/l): 7.4	Sediment Silt-Clay (%): 6.47	Total Carbon (%): 0.1
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 2.67	Condition: Marginal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.64 3	Pollution Indicative Species Abundance (%) 24.00 3
Abundance (#/m2)	1000 3	Pollution Indicative Species Biomass (%) 80.88
Biomass (g/m2)	0.95 1	Pollution Sensitive Species Abundance (%) 12.00 3
Carnivore-Omnivore Abundance (%)	20.00 3	Pollution Sensitive Species Biomass (%) 2.52
Deep Deposit Feeder Abundance (%)	12.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	40	0.00200
Carinoma tremaphoros	120	0.02800
Glycinde solitaria	40	0.00200
Heteromastus filiformis	80	0.02000
Macoma mitchelli	400	0.10800
Marenzelleria viridis	40	0.02000
Mulinia lateralis	160	0.76800
Streblospio benedicti	80	0.00200
Tubificoides spp.	40	0.00200
Total Abundance w/ Epi.	1000	
Total Abundance w/o Epi.	1000	
Number of Taxa w/ Epi.	9	
Number of Taxa w/o Epi.	9	
Total Biomass w/ Epi.		0.95200
Total Biomass w/o Epi.		0.95200

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River	Station: 051	Rep: 02
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 06SEP01
	Sampled Area: 0.025 sq.m	Time: 12:40:59
BOTTOM ENVIRONMENT		
Depth (m): 2.9	Salinity (ppt): 13.80	Temperature (C): 25.88
Dissolved Oxygen (mg/l): 7.4	Sediment Silt-Clay (%): 6.47	Total Carbon (%): 0.1
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.00	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	3.08 3	Pollution Indicative Species Abundance (%) 21.05 3
Abundance (#/m2)	1520 5	Pollution Indicative Species Biomass (%) 2.25
Biomass (g/m2)	0.89 1	Pollution Sensitive Species Abundance (%) 18.42 3
Carnivore-Omnivore Abundance (%)	34.21 3	Pollution Sensitive Species Biomass (%) 7.64
Deep Deposit Feeder Abundance (%)	13.16	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	80	0.00400
Carinoma tremaphoros	80	0.01600
Chironomidae		0.00200
Chironomus spp.	40	
Gemma gemma	40	0.00400
Glycinde solitaria	160	0.03600
Haminoea solitaria	160	0.04400
Heteromastus filiformis	200	0.12400
Macoma mitchelli	440	0.61200
Marenzelleria viridis	40	0.02800
Mulinia lateralis	160	0.00800
Streblospio benedicti	120	0.01200
Total Abundance w/ Epi.	1520	
Total Abundance w/o Epi.	1520	
Number of Taxa w/ Epi.	11	
Number of Taxa w/o Epi.	11	
Total Biomass w/ Epi.		0.89000
Total Biomass w/o Epi.		0.89000

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River	Station: 051	Rep: 03
Gear: Modified Box Corer	Habitat: High Mesohaline Sand	Date: 06SEP01
	Sampled Area: 0.025 sq.m	Time: 12:40:59
BOTTOM ENVIRONMENT		
Depth (m): 2.9	Salinity (ppt): 13.80	Temperature (C): 25.88
Dissolved Oxygen (mg/l): 7.4	Sediment Silt-Clay (%): 6.47	Total Carbon (%): 0.1
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.00	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	3.11 3	Pollution Indicative Species Abundance (%) 30.00 1
Abundance (#/m2)	1600 5	Pollution Indicative Species Biomass (%) 2.90
Biomass (g/m2)	2.75 3	Pollution Sensitive Species Abundance (%) 15.00 3
Carnivore-Omnivore Abundance (%)	22.50 3	Pollution Sensitive Species Biomass (%) 67.83
Deep Deposit Feeder Abundance (%)	7.50	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	120	0.00400
Carinoma tremaphoros	80	0.01200
Haminoea solitaria	40	0.00400
Heteromastus filiformis	120	0.03200
Leptocheirus plumulosus	40	0.00200
Loimia medusa	40	1.74400
Macoma mitchelli	440	0.23200
Micrura leidyi	80	0.46000
Mulinia lateralis	240	0.06000
Phoronis spp.	80	0.12000
Rictaxis punctostriatus	40	0.00400
Saccoglossus kowalevskii	40	0.06000
Streblospio benedicti	240	0.02000
Total Abundance w/ Epi.	1600	
Total Abundance w/o Epi.	1600	
Number of Taxa w/ Epi.	13	
Number of Taxa w/o Epi.	13	
Total Biomass w/ Epi.		2.75400
Total Biomass w/o Epi.		2.75400

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River	Station: 052	Rep: 01
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 06SEP01
	Sampled Area: 0.022 sq.m	Time: 7:52:34
BOTTOM ENVIRONMENT		
Depth (m): 13.5	Salinity (ppt): 15.46	Temperature (C): 26.25
Dissolved Oxygen (mg/l): 0.6	Sediment Silt-Clay (%): 94.79	Total Carbon (%): 3.1
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 1.00	Condition: Severely Degr.	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	0.00 1	Pollution Indicative Species Abundance (%) 100.00
Abundance (#/m2)	0 1	Pollution Indicative Species Biomass (%) 100.00 1
Biomass (g/m2)	0.00 1	Pollution Sensitive Species Abundance (%) 0.00
Carnivore-Omnivore Abundance (%)	0.00 1	Pollution Sensitive Species Biomass (%) 0.00 1
Deep Deposit Feeder Abundance (%)	0.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
No Organisms Present		
Total Abundance w/ Epi.		
Total Abundance w/o Epi.		
Number of Taxa w/ Epi.	0	
Number of Taxa w/o Epi.	0	
Total Biomass w/ Epi.		
Total Biomass w/o Epi.		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River	Station: 052	Rep: 02
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 06SEP01
	Sampled Area: 0.022 sq.m	Time: 7:52:34
BOTTOM ENVIRONMENT		
Depth (m): 13.5	Salinity (ppt): 15.46	Temperature (C): 26.25
Dissolved Oxygen (mg/l): 0.6	Sediment Silt-Clay (%): 94.79	Total Carbon (%): 3.1
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 1.00	Condition: Severely Degr.	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	0.92 1	Pollution Indicative Species Abundance (%) 33.33
Abundance (#/m2)	135 1	Pollution Indicative Species Biomass (%) 50.00 1
Biomass (g/m2)	0.00 1	Pollution Sensitive Species Abundance (%) 0.00
Carnivore-Omnivore Abundance (%)	0.00 1	Pollution Sensitive Species Biomass (%) 0.00 1
Deep Deposit Feeder Abundance (%)	66.67	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Streblospio benedicti	45	0.00225
Tubificoides spp.	90	0.00225
Total Abundance w/ Epi.	135	
Total Abundance w/o Epi.	135	
Number of Taxa w/ Epi.	2	
Number of Taxa w/o Epi.	2	
Total Biomass w/ Epi.		0.00450
Total Biomass w/o Epi.		0.00450

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Potomac River	Station: 052	Rep: 03
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 06SEP01
	Sampled Area: 0.022 sq.m	Time: 7:52:34
BOTTOM ENVIRONMENT		
Depth (m): 13.5	Salinity (ppt): 15.46	Temperature (C): 26.25
Dissolved Oxygen (mg/l): 0.6	Sediment Silt-Clay (%): 94.79	Total Carbon (%): 3.1
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 1.00	Condition: Severely Degr.	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	0.00 1	Pollution Indicative Species Abundance (%) 100.00
Abundance (#/m2)	0 1	Pollution Indicative Species Biomass (%) 100.00 1
Biomass (g/m2)	0.00 1	Pollution Sensitive Species Abundance (%) 0.00
Carnivore-Omnivore Abundance (%)	0.00 1	Pollution Sensitive Species Biomass (%) 0.00 1
Deep Deposit Feeder Abundance (%)	0.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
No Organisms Present		
Total Abundance w/ Epi.		
Total Abundance w/o Epi.		
Number of Taxa w/ Epi.	0	
Number of Taxa w/o Epi.	0	
Total Biomass w/ Epi.		
Total Biomass w/o Epi.		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Lower Eastern Shore		Station: 062		Rep: 01	
Gear: Petite Ponar		Habitat: Low Mesohaline		Date: 24SEP01	
		Sampled Area: 0.025 sq.m		Time: 10:52:01	
BOTTOM ENVIRONMENT					
Depth (m): 4.5		Salinity (ppt): 7.02		Temperature (C): 23.38	
Dissolved Oxygen (mg/l): 9.1		Sediment Silt-Clay (%): 75.33		Total Carbon (%): 4.42	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.60		Condition: Degraded		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	1.90	3	Pollution Indicative Species Abundance (%)	1.14	5
Abundance (#/m2)	3520	3	Pollution Indicative Species Biomass (%)	0.61	
Biomass (g/m2)	0.65	1	Pollution Sensitive Species Abundance (%)	4.55	
Carnivore-Omnivore Abundance (%)	6.82		Pollution Sensitive Species Biomass (%)	23.31	1
Deep Deposit Feeder Abundance (%)	48.86				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Ameroculodes species complex	160		0.04000		
Chiridotea almyra	80		0.00200		
Coelotanypus spp.	40		0.00400		
Cyathura polita	80		0.02400		
Edotea triloba (Epi)	280		0.01600		
Gammarus daiberi (Epi)	40		0.00200		
Leptocheirus plumulosus	1240		0.21600		
Macoma balthica	40		0.02000		
Macoma mitchelli	80		0.22400		
Marenzelleria viridis	40		0.10800		
Parahesionia luteola	40		0.00200		
Tubificoides spp.	1720		0.01200		
Total Abundance w/ Epi.	3840				
Total Abundance w/o Epi.	3520				
Number of Taxa w/ Epi.	12				
Number of Taxa w/o Epi.	10				
Total Biomass w/ Epi.			0.67000		
Total Biomass w/o Epi.			0.65200		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Lower Eastern Shore	Station: 062	Rep: 02
Gear: Petite Ponar	Habitat: Low Mesohaline	Date: 24SEP01
	Sampled Area: 0.025 sq.m	Time: 10:52:01
BOTTOM ENVIRONMENT		
Depth (m): 4.5	Salinity (ppt): 7.02	Temperature (C): 23.38
Dissolved Oxygen (mg/l): 9.1	Sediment Silt-Clay (%): 75.33	Total Carbon (%): 4.42
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 2.20	Condition: Degraded	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	1.10 1	Pollution Indicative Species Abundance (%) 0.00 5
Abundance (#/m2)	5920 3	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	0.44 1	Pollution Sensitive Species Abundance (%) 0.68
Carnivore-Omnivore Abundance (%)	2.70	Pollution Sensitive Species Biomass (%) 27.15 1
Deep Deposit Feeder Abundance (%)	75.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	120	0.01600
Carinoma tremaphoros	40	0.00200
Chiridotea almyra	120	0.02000
Edotea triloba (Epi)	120	0.02400
Leptocheirus plumulosus	1160	0.22000
Marenzelleria viridis	40	0.12000
Tubificoides spp.	4440	0.06400
Total Abundance w/ Epi.	6040	
Total Abundance w/o Epi.	5920	
Number of Taxa w/ Epi.	7	
Number of Taxa w/o Epi.	6	
Total Biomass w/ Epi.		0.46600
Total Biomass w/o Epi.		0.44200

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Lower Eastern Shore	Station: 062	Rep: 03
Gear: Petite Ponar	Habitat: Low Mesohaline	Date: 24SEP01
	Sampled Area: 0.025 sq.m	Time: 10:52:01
BOTTOM ENVIRONMENT		
Depth (m): 4.5	Salinity (ppt): 7.02	Temperature (C): 23.38
Dissolved Oxygen (mg/l): 9.1	Sediment Silt-Clay (%): 75.33	Total Carbon (%): 4.42
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 2.60	Condition: Degraded	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	1.35 1	Pollution Indicative Species Abundance (%) 0.00 5
Abundance (#/m2)	5600 3	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	0.84 1	Pollution Sensitive Species Abundance (%) 2.14
Carnivore-Omnivore Abundance (%)	4.29	Pollution Sensitive Species Biomass (%) 47.03 3
Deep Deposit Feeder Abundance (%)	67.14	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	40	0.02800
Chiridotea almyra	160	0.03600
Cyathura polita	40	0.19600
Edotea triloba (Epi)	80	0.00800
Gammarus daiberi (Epi)	240	0.02800
Leptocheirus plumulosus	1400	0.32000
Macoma balthica	40	0.09200
Macoma mitchelli	120	0.00200
Marenzelleria viridis	40	0.10800
Tubificoides spp.	3760	0.06000
Total Abundance w/ Epi.	5920	
Total Abundance w/o Epi.	5600	
Number of Taxa w/ Epi.	10	
Number of Taxa w/o Epi.	8	
Total Biomass w/ Epi.		0.87800
Total Biomass w/o Epi.		0.84200

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Choptank River	Station: 064	Rep: 01
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 04SEP01
	Sampled Area: 0.022 sq.m	Time: 10:58:56
BOTTOM ENVIRONMENT		
Depth (m): 11.5	Salinity (ppt): 12.08	Temperature (C): 26.21
Dissolved Oxygen (mg/l): 5.6	Sediment Silt-Clay (%): 87.97	Total Carbon (%): 2.17
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.00	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.04 3	Pollution Indicative Species Abundance (%) 15.79
Abundance (#/m2)	855 1	Pollution Indicative Species Biomass (%) 1.94 5
Biomass (g/m2)	1.62 3	Pollution Sensitive Species Abundance (%) 63.16
Carnivore-Omnivore Abundance (%)	21.05 3	Pollution Sensitive Species Biomass (%) 88.33 3
Deep Deposit Feeder Abundance (%)	5.26	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	90	0.15300
Glycinde solitaria	90	0.11250
Heteromastus filiformis	45	0.00225
Macoma balthica	450	1.31850
Macoma mitchelli	45	0.00225
Mulinia lateralis	135	0.03150
Total Abundance w/ Epi.	855	
Total Abundance w/o Epi.	855	
Number of Taxa w/ Epi.	6	
Number of Taxa w/o Epi.	6	
Total Biomass w/ Epi.		1.62000
Total Biomass w/o Epi.		1.62000

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Choptank River	Station: 064	Rep: 02
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 04SEP01
	Sampled Area: 0.022 sq.m	Time: 10:58:56
BOTTOM ENVIRONMENT		
Depth (m): 11.5	Salinity (ppt): 12.08	Temperature (C): 26.21
Dissolved Oxygen (mg/l): 5.6	Sediment Silt-Clay (%): 87.97	Total Carbon (%): 2.17
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.33	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.23 3	Pollution Indicative Species Abundance (%) 18.60
Abundance (#/m2)	1935 5	Pollution Indicative Species Biomass (%) 6.40 3
Biomass (g/m2)	1.41 3	Pollution Sensitive Species Abundance (%) 23.26
Carnivore-Omnivore Abundance (%)	9.30 1	Pollution Sensitive Species Biomass (%) 77.44 5
Deep Deposit Feeder Abundance (%)	51.16	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Americamysis bigelowi (Epi)	90	0.00225
Glycinde solitaria	90	0.01350
Leucon americanus	45	0.00225
Macoma balthica	315	1.06650
Marenzelleria viridis	45	0.00900
Mulinia lateralis	270	0.08550
Neanthes succinea	45	0.22050
Rictaxis punctostriatus	45	0.00225
Streblospio benedicti	90	0.00450
Tubificoides spp.	990	0.00225
Total Abundance w/ Epi.	2025	
Total Abundance w/o Epi.	1935	
Number of Taxa w/ Epi.	10	
Number of Taxa w/o Epi.	9	
Total Biomass w/ Epi.		1.40850
Total Biomass w/o Epi.		1.40625

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Choptank River	Station: 064	Rep: 03
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 04SEP01
	Sampled Area: 0.022 sq.m	Time: 10:58:56
BOTTOM ENVIRONMENT		
Depth (m): 11.5	Salinity (ppt): 12.08	Temperature (C): 26.21
Dissolved Oxygen (mg/l): 5.6	Sediment Silt-Clay (%): 87.97	Total Carbon (%): 2.17
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 2.67	Condition: Marginal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	1.68 1	Pollution Indicative Species Abundance (%) 31.58
Abundance (#/m2)	855 1	Pollution Indicative Species Biomass (%) 3.78 5
Biomass (g/m2)	1.90 3	Pollution Sensitive Species Abundance (%) 47.37
Carnivore-Omnivore Abundance (%)	21.05 3	Pollution Sensitive Species Biomass (%) 83.22 3
Deep Deposit Feeder Abundance (%)	0.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Americamysis almyra (Epi)	45	0.05400
Carinoma tremaphoros	135	0.19800
Macoma balthica	405	1.58400
Mulinia lateralis	270	0.07200
Rictaxis punctostriatus	45	0.04950
Total Abundance w/ Epi.	900	
Total Abundance w/o Epi.	855	
Number of Taxa w/ Epi.	5	
Number of Taxa w/o Epi.	4	
Total Biomass w/ Epi.		1.95750
Total Biomass w/o Epi.		1.90350

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Choptank River		Station: 066	Rep: 01
Gear: Wildco Box Corer		Habitat: Oligohaline	Date: 24SEP01
		Sampled Area: 0.022 sq.m	Time: 8:48:37
BOTTOM ENVIRONMENT			
Depth (m): 5.0	Salinity (ppt): 1.13	Temperature (C): 23.58	
Dissolved Oxygen (mg/l): 5.8	Sediment Silt-Clay (%): 77.79	Total Carbon (%): 4.16	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score: 3.00	Condition: Meets Goal		# Attributes Scored: 6
	Value	Score	Value Score
Shannon-Wiener Index	2.36		Oligohaline Pollution Indicative Spp. Abund. 48.33 3
Abundance (#/m2)	2700	5	Tolerance Score 8.97 3
Deep Deposit Feeder Abundance (%)	36.67		Oligohaline Pollution Sensitive Spp. Abund. 0.00 1
Carnivore-Omnivore Abundance (%)	53.33	5	Tanypodinae/Chironomidae Abundance Ratio 100.00 1
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	225		0.00225
Carinoma tremaphoros	45		0.00225
Chaoborus spp.	1125		0.02700
Coelotanypus spp.	270		0.00225
Gammarus daiberi (Epi)	90		0.00225
Imm. Tubificid w/o Cap. Chaete *	585		
Leptocheirus plumulosus	45		0.00225
Limnodrilus hoffmeisteri	315		
Oligochaeta			0.00450
Tubificoides spp.	90		0.00225
Total Abundance w/ Epi.	2790		
Total Abundance w/o Epi.	2700		
Number of Taxa w/ Epi.	8		
Number of Taxa w/o Epi.	7		
Total Biomass w/ Epi.			0.04500
Total Biomass w/o Epi.			0.04275

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Choptank River		Station: 066	Rep: 02
Gear: Wildco Box Corer		Habitat: Oligohaline	Date: 24SEP01
		Sampled Area: 0.022 sq.m	Time: 8:48:37
BOTTOM ENVIRONMENT			
Depth (m): 5.0	Salinity (ppt): 1.13	Temperature (C): 23.58	
Dissolved Oxygen (mg/l): 5.8	Sediment Silt-Clay (%): 77.79	Total Carbon (%): 4.16	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score: 2.67	Condition: Marginal		# Attributes Scored: 6
	Value	Score	Value Score
Shannon-Wiener Index	2.32		Oligohaline Pollution Indicative Spp. Abund. 73.33 3
Abundance (#/m2)	3375	3	Tolerance Score 8.88 3
Deep Deposit Feeder Abundance (%)	48.00		Oligohaline Pollution Sensitive Spp. Abund. 0.00 1
Carnivore-Omnivore Abundance (%)	37.33	5	Tanypodinae/Chironomidae Abundance Ratio 100.00 1
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	135		0.00225
Chaoborus spp.	765		0.04500
Coelotanypus spp.	495		0.04500
Gammarus daiberi (Epi)	540		0.00450
Imm. Tubificid w/o Cap. Chaete *	1350		
Leptocheirus plumulosus	360		0.03150
Limnodrilus hoffmeisteri	90		
Littoridinops tenuipes (Epi)	45		0.00225
Oligochaeta			0.08325
Tubificoides spp.	180		0.00225
Total Abundance w/ Epi.	3960		
Total Abundance w/o Epi.	3375		
Number of Taxa w/ Epi.	8		
Number of Taxa w/o Epi.	6		
Total Biomass w/ Epi.			0.21600
Total Biomass w/o Epi.			0.20925

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Choptank River		Station: 066	Rep: 03
Gear: Wildco Box Corer		Habitat: Oligohaline	Date: 24SEP01
		Sampled Area: 0.022 sq.m	Time: 8:48:37
BOTTOM ENVIRONMENT			
Depth (m): 5.0	Salinity (ppt): 1.13	Temperature (C): 23.58	
Dissolved Oxygen (mg/l): 5.8	Sediment Silt-Clay (%): 77.79	Total Carbon (%): 4.16	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score: 2.67	Condition: Marginal		# Attributes Scored: 6
	Value	Score	Value Score
Shannon-Wiener Index	2.20		Oligohaline Pollution Indicative Spp. Abund. 73.02 3
Abundance (#/m2)	2835	5	Tolerance Score 9.06 1
Deep Deposit Feeder Abundance (%)	58.73		Oligohaline Pollution Sensitive Spp. Abund. 3.17 3
Carnivore-Omnivore Abundance (%)	34.92	3	Tanypodinae/Chironomidae Abundance Ratio 100.00 1
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	90		0.00225
Chaoborus spp.	585		0.04950
Coelotanypus spp.	405		0.03150
Heteromastus filiformis	45		0.12600
Imm. Tubificid w/ Cap. Chaete	90		
Imm. Tubificid w/o Cap. Chaete *	1350		
Limnodrilus hoffmeisteri	180		
Marenzelleria viridis	90		0.08100
Oligochaeta			0.04725
Total Abundance w/ Epi.	2835		
Total Abundance w/o Epi.	2835		
Number of Taxa w/ Epi.	7		
Number of Taxa w/o Epi.	7		
Total Biomass w/ Epi.			0.33750
Total Biomass w/o Epi.			0.33750

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Upper Eastern Shore	Station: 068	Rep: 01
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 10SEP01
	Sampled Area: 0.022 sq.m	Time: 11:43:11
BOTTOM ENVIRONMENT		
Depth (m): 5.0	Salinity (ppt): 9.59	Temperature (C): 25.95
Dissolved Oxygen (mg/l): 6.0	Sediment Silt-Clay (%): 61.84	Total Carbon (%): 2.16
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 4.20	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	2.59 5	Pollution Indicative Species Abundance (%) 0.00 5
Abundance (#/m2)	2430 5	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	85.57 1	Pollution Sensitive Species Abundance (%) 75.93
Carnivore-Omnivore Abundance (%)	44.44	Pollution Sensitive Species Biomass (%) 99.90 5
Deep Deposit Feeder Abundance (%)	5.56	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	180	0.00450
Cyathura polita	810	0.04500
Edotea triloba (Epi)	45	0.00225
Edwardsia elegans	45	0.00450
Heteromastus filiformis	90	0.02250
Leptocheirus plumulosus	135	0.00225
Macoma balthica	765	17.41950
Macoma mitchelli	45	0.04500
Marenzelleria viridis	45	0.01800
Melita nitida (Epi)	45	0.00225
Neanthes succinea	45	0.00225
Rangia cuneata	225	68.00400
Tubificoides spp.	45	0.00225
Total Abundance w/ Epi.	2520	
Total Abundance w/o Epi.	2430	
Number of Taxa w/ Epi.	13	
Number of Taxa w/o Epi.	11	
Total Biomass w/ Epi.		85.57425
Total Biomass w/o Epi.		85.56975

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Upper Eastern Shore	Station: 068	Rep: 02
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 10SEP01
	Sampled Area: 0.022 sq.m	Time: 11:43:11
BOTTOM ENVIRONMENT		
Depth (m): 5.0	Salinity (ppt): 9.59	Temperature (C): 25.95
Dissolved Oxygen (mg/l): 6.0	Sediment Silt-Clay (%): 61.84	Total Carbon (%): 2.16
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 4.20	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	2.96 5	Pollution Indicative Species Abundance (%) 4.92 5
Abundance (#/m2)	2745 3	Pollution Indicative Species Biomass (%) 0.01
Biomass (g/m2)	19.31 3	Pollution Sensitive Species Abundance (%) 42.62
Carnivore-Omnivore Abundance (%)	36.07	Pollution Sensitive Species Biomass (%) 90.12 5
Deep Deposit Feeder Abundance (%)	18.03	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	180	0.00225
Chiridotea almyra	45	0.00225
Cyathura polita	450	0.30150
Heteromastus filiformis	135	0.09450
Leptocheirus plumulosus	405	0.06300
Macoma balthica	675	16.72200
Marenzelleria viridis	45	0.37350
Neanthes succinea	315	1.74150
Streblospio benedicti	135	0.00225
Tubificoides spp.	360	0.00225
Total Abundance w/ Epi.	2745	
Total Abundance w/o Epi.	2745	
Number of Taxa w/ Epi.	10	
Number of Taxa w/o Epi.	10	
Total Biomass w/ Epi.		19.30500
Total Biomass w/o Epi.		19.30500

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Upper Eastern Shore	Station: 068	Rep: 03
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 10SEP01
	Sampled Area: 0.022 sq.m	Time: 11:43:11
BOTTOM ENVIRONMENT		
Depth (m): 5.0	Salinity (ppt): 9.59	Temperature (C): 25.95
Dissolved Oxygen (mg/l): 6.0	Sediment Silt-Clay (%): 61.84	Total Carbon (%): 2.16
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 4.20	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	2.86 5	Pollution Indicative Species Abundance (%) 5.19 5
Abundance (#/m2)	3465 3	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	22.02 3	Pollution Sensitive Species Abundance (%) 46.75
Carnivore-Omnivore Abundance (%)	45.45	Pollution Sensitive Species Biomass (%) 97.59 5
Deep Deposit Feeder Abundance (%)	28.57	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	270	0.04950
Chironomidae		0.00225
Cyathura polita	1215	1.46250
Cyclaspis varians	45	0.00225
Edotea triloba (Epi)	90	0.00450
Heteromastus filiformis	180	0.04050
Imm. Tubificid w/o Cap. Chaete	180	
Leptocheirus plumulosus	450	0.08550
Macoma balthica	180	11.96550
Marenzelleria viridis	45	0.02700
Melita nitida (Epi)	90	0.00225
Neanthes succinea	45	0.34650
Oligochaeta		0.00225
Rangia cuneata	180	8.03655
Rheotanytarsus spp.	45	
Tubificoides spp.	630	0.00225
Total Abundance w/ Epi.	3645	
Total Abundance w/o Epi.	3465	
Number of Taxa w/ Epi.	14	
Number of Taxa w/o Epi.	12	
Total Biomass w/ Epi.		22.02930
Total Biomass w/o Epi.		22.02255

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patuxent River	Station: 071	Rep: 01
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 07SEP01
	Sampled Area: 0.022 sq.m	Time: 8:12:18
BOTTOM ENVIRONMENT		
Depth (m): 15.0	Salinity (ppt): 15.77	Temperature (C): 26.40
Dissolved Oxygen (mg/l): 2.5	Sediment Silt-Clay (%): 95.57	Total Carbon (%): 3.15
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 2.67	Condition: Marginal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	1.79 1	Pollution Indicative Species Abundance (%) 0.00
Abundance (#/m2)	495 1	Pollution Indicative Species Biomass (%) 0.00 5
Biomass (g/m2)	0.11 1	Pollution Sensitive Species Abundance (%) 27.27
Carnivore-Omnivore Abundance (%)	90.91 5	Pollution Sensitive Species Biomass (%) 32.00 3
Deep Deposit Feeder Abundance (%)	0.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	135	0.03600
Leucon americanus	45	0.02250
Podarkeopsis levifuscina	90	0.02700
Rictaxis punctostriatus	225	0.02700
Total Abundance w/ Epi.	495	
Total Abundance w/o Epi.	495	
Number of Taxa w/ Epi.	4	
Number of Taxa w/o Epi.	4	
Total Biomass w/ Epi.		0.11250
Total Biomass w/o Epi.		0.11250

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patuxent River	Station: 071	Rep: 03
Gear: Wildco Box Corer	Habitat: High Mesohaline Mud	Date: 07SEP01
	Sampled Area: 0.022 sq.m	Time: 8:12:18
BOTTOM ENVIRONMENT		
Depth (m): 15.0	Salinity (ppt): 15.77	Temperature (C): 26.40
Dissolved Oxygen (mg/l): 2.5	Sediment Silt-Clay (%): 95.57	Total Carbon (%): 3.15
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 2.33	Condition: Degraded	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.73 3	Pollution Indicative Species Abundance (%) 22.22
Abundance (#/m2)	405 1	Pollution Indicative Species Biomass (%) 5.06 3
Biomass (g/m2)	0.36 1	Pollution Sensitive Species Abundance (%) 22.22
Carnivore-Omnivore Abundance (%)	55.56 5	Pollution Sensitive Species Biomass (%) 5.06 1
Deep Deposit Feeder Abundance (%)	0.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Acteocina canaliculata	90	0.01800
Leucon americanus	45	0.00900
Macoma mitchelli	45	0.22500
Neanthes succinea	45	0.06300
Podarkeopsis levifuscina	45	0.00900
Rictaxis punctostriatus	45	0.01350
Streblospio benedicti	90	0.01800
Total Abundance w/ Epi.	405	
Total Abundance w/o Epi.	405	
Number of Taxa w/ Epi.	7	
Number of Taxa w/o Epi.	7	
Total Biomass w/ Epi.		0.35550
Total Biomass w/o Epi.		0.35550

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Chalk Point Discharge		Station: 074	Rep: 01
Gear: Wildco Box Corer		Habitat: Low Mesohaline	Date: 07SEP01
		Sampled Area: 0.022 sq.m	Time: 10:16:30
BOTTOM ENVIRONMENT			
Depth (m): 2.0	Salinity (ppt): 10.24	Temperature (C): 26.78	
Dissolved Oxygen (mg/l): 4.7	Sediment Silt-Clay (%): 92.06	Total Carbon (%): 2.8	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score: 3.40	Condition: Meets Goal		# Attributes Scored: 5
	Value	Score	Value Score
Shannon-Wiener Index	2.00	3	Pollution Indicative Species Abundance (%) 2.82 5
Abundance (#/m2)	6390	1	Pollution Indicative Species Biomass (%) 0.10
Biomass (g/m2)	20.73	3	Pollution Sensitive Species Abundance (%) 14.79
Carnivore-Omnivore Abundance (%)	5.63		Pollution Sensitive Species Biomass (%) 91.53 5
Deep Deposit Feeder Abundance (%)	52.82		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Ameroculodes species complex	45		0.00225
Carinoma tremaphoros	45		0.00225
Cyathura polita	225		0.67050
Eteone heteropoda	90		0.01800
Leptocheirus plumulosus	1530		0.35550
Leucon americanus	45		0.00225
Macoma balthica	720		18.30150
Macoma mitchelli	225		1.34100
Melita nitida (Epi)	360		0.01350
Streblospio benedicti	90		0.00225
Tubificoides spp.	3375		0.03150
Total Abundance w/ Epi.	6750		
Total Abundance w/o Epi.	6390		
Number of Taxa w/ Epi.	11		
Number of Taxa w/o Epi.	10		
Total Biomass w/ Epi.			20.74050
Total Biomass w/o Epi.			20.72700

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Chalk Point Discharge	Station: 074	Rep: 02
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 07SEP01
	Sampled Area: 0.022 sq.m	Time: 10:16:30
BOTTOM ENVIRONMENT		
Depth (m): 2.0	Salinity (ppt): 10.24	Temperature (C): 26.78
Dissolved Oxygen (mg/l): 4.7	Sediment Silt-Clay (%): 92.06	Total Carbon (%): 2.8
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.40	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	2.15 3	Pollution Indicative Species Abundance (%) 5.77 5
Abundance (#/m2)	7020 1	Pollution Indicative Species Biomass (%) 1.99
Biomass (g/m2)	20.42 3	Pollution Sensitive Species Abundance (%) 9.62
Carnivore-Omnivore Abundance (%)	4.49	Pollution Sensitive Species Biomass (%) 93.53 5
Deep Deposit Feeder Abundance (%)	59.62	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	90	0.00450
Cyathura polita	45	0.00225
Eteone heteropoda	45	0.40500
Heteromastus filiformis	90	0.06300
Imm. Tubificid w/o Cap. Chaete	180	
Leptocheirus plumulosus	1620	0.37800
Leucon americanus	45	0.00225
Macoma balthica	495	18.91350
Macoma mitchelli	135	0.37350
Marenzelleria viridis	45	0.18000
Mediomastus ambiseta	90	0.00450
Melita nitida (Epi)	630	0.03600
Neanthes succinea	90	0.04500
Nemertinea	45	0.03600
Oligochaeta		0.00225
Streblospio benedicti	180	0.00225
Tubificoides spp.	3825	0.00900
Total Abundance w/ Epi.	7650	
Total Abundance w/o Epi.	7020	
Number of Taxa w/ Epi.	16	
Number of Taxa w/o Epi.	15	
Total Biomass w/ Epi.		20.45700
Total Biomass w/o Epi.		20.42100

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Chalk Point Discharge	Station: 074	Rep: 03
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 07SEP01
	Sampled Area: 0.022 sq.m	Time: 10:16:30
BOTTOM ENVIRONMENT		
Depth (m): 2.0	Salinity (ppt): 10.24	Temperature (C): 26.78
Dissolved Oxygen (mg/l): 4.7	Sediment Silt-Clay (%): 92.06	Total Carbon (%): 2.8
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 4.20	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	2.37 3	Pollution Indicative Species Abundance (%) 2.27 5
Abundance (#/m2)	1980 5	Pollution Indicative Species Biomass (%) 0.01
Biomass (g/m2)	24.14 3	Pollution Sensitive Species Abundance (%) 59.09
Carnivore-Omnivore Abundance (%)	13.64	Pollution Sensitive Species Biomass (%) 98.02 5
Deep Deposit Feeder Abundance (%)	13.64	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Ameroculodes species complex	45	0.00225
Carinoma tremaphoros	45	0.03150
Cyathura polita	180	0.60750
Eteone heteropoda	45	0.00225
Heteromastus filiformis	45	0.02250
Leptocheirus plumulosus	360	0.07650
Macoma balthica	945	22.86000
Macoma mitchelli	45	0.34200
Marenzelleria viridis	45	0.19800
Melita nitida (Epi)	90	0.00225
Tubificoides spp.	225	0.00225
Total Abundance w/ Epi.	2070	
Total Abundance w/o Epi.	1980	
Number of Taxa w/ Epi.	11	
Number of Taxa w/o Epi.	10	
Total Biomass w/ Epi.		24.14700
Total Biomass w/o Epi.		24.14475

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patuxent River	Station: 077	Rep: 01
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 07SEP01
	Sampled Area: 0.022 sq.m	Time: 10:35:42
BOTTOM ENVIRONMENT		
Depth (m): 2.0	Salinity (ppt): 5.87	Temperature (C): 26.56
Dissolved Oxygen (mg/l): 5.7	Sediment Silt-Clay (%): 83.58	Total Carbon (%): 3.18
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 1.80	Condition: Severely Degr.	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	2.26 3	Pollution Indicative Species Abundance (%) 44.44 1
Abundance (#/m2)	1215 3	Pollution Indicative Species Biomass (%) 18.92
Biomass (g/m2)	0.33 1	Pollution Sensitive Species Abundance (%) 7.41
Carnivore-Omnivore Abundance (%)	25.93	Pollution Sensitive Species Biomass (%) 8.11 1
Deep Deposit Feeder Abundance (%)	0.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	135	0.09000
Coelotanypus spp.	180	0.04050
Leptocheirus plumulosus	405	0.09450
Macoma mitchelli	45	0.05850
Rangia cuneata	90	0.02700
Streblospio benedicti	360	0.02250
Total Abundance w/ Epi.	1215	
Total Abundance w/o Epi.	1215	
Number of Taxa w/ Epi.	6	
Number of Taxa w/o Epi.	6	
Total Biomass w/ Epi.		0.33300
Total Biomass w/o Epi.		0.33300

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patuxent River	Station: 077	Rep: 02
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 07SEP01
	Sampled Area: 0.022 sq.m	Time: 10:35:42
BOTTOM ENVIRONMENT		
Depth (m): 2.0	Salinity (ppt): 5.87	Temperature (C): 26.56
Dissolved Oxygen (mg/l): 5.7	Sediment Silt-Clay (%): 83.58	Total Carbon (%): 3.18
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 1.80	Condition: Severely Degr.	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	1.73 3	Pollution Indicative Species Abundance (%) 62.59 1
Abundance (#/m2)	6615 1	Pollution Indicative Species Biomass (%) 21.43
Biomass (g/m2)	0.63 1	Pollution Sensitive Species Abundance (%) 4.76
Carnivore-Omnivore Abundance (%)	3.40	Pollution Sensitive Species Biomass (%) 42.14 3
Deep Deposit Feeder Abundance (%)	19.05	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	90	0.08100
Coelotanypus spp.	90	0.01800
Cyathura polita	45	0.01800
Edotea triloba (Epi)	45	0.01350
Leptocheirus plumulosus	720	0.13950
Macoma mitchelli	90	0.00450
Melita nitida (Epi)	45	0.00225
Rangia cuneata	270	0.24750
Streblospio benedicti	4050	0.11700
Tubificoides spp.	1260	0.00450
Total Abundance w/ Epi.	6705	
Total Abundance w/o Epi.	6615	
Number of Taxa w/ Epi.	10	
Number of Taxa w/o Epi.	8	
Total Biomass w/ Epi.		0.64575
Total Biomass w/o Epi.		0.63000

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patuxent River	Station: 077	Rep: 03
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 07SEP01
	Sampled Area: 0.022 sq.m	Time: 10:35:42
BOTTOM ENVIRONMENT		
Depth (m): 2.0	Salinity (ppt): 5.87	Temperature (C): 26.56
Dissolved Oxygen (mg/l): 5.7	Sediment Silt-Clay (%): 83.58	Total Carbon (%): 3.18
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.40	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	2.66 5	Pollution Indicative Species Abundance (%) 44.90 1
Abundance (#/m2)	2205 5	Pollution Indicative Species Biomass (%) 7.49
Biomass (g/m2)	1.02 3	Pollution Sensitive Species Abundance (%) 14.29
Carnivore-Omnivore Abundance (%)	22.45	Pollution Sensitive Species Biomass (%) 72.69 3
Deep Deposit Feeder Abundance (%)	20.41	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	180	0.14400
Coelotanypus spp.	180	0.03600
Cyathura polita	135	0.45450
Leptocheirus plumulosus	225	0.03150
Macoma mitchelli	45	0.00900
Marenzelleria viridis	90	0.22950
Rangia cuneata	90	0.05850
Streblospio benedicti	810	0.04050
Tubificoides spp.	450	0.01800
Total Abundance w/ Epi.	2205	
Total Abundance w/o Epi.	2205	
Number of Taxa w/ Epi.	9	
Number of Taxa w/o Epi.	9	
Total Biomass w/ Epi.		1.02150
Total Biomass w/o Epi.		1.02150

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patuxent River		Station: 079	Rep: 01
Gear: Wildco Box Corer		Habitat: Tidal Freshwater	Date: 21SEP01
		Sampled Area: 0.022 sq.m	Time: 10:33:57
BOTTOM ENVIRONMENT			
Depth (m): 1.5	Salinity (ppt): 1.18	Temperature (C): 21.82	
Dissolved Oxygen (mg/l): 6.8	Sediment Silt-Clay (%): 83.22	Total Carbon (%): 3.39	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score: 1.50	Condition: Severely Degr.		# Attributes Scored: 4
	Value	Score	Value
Shannon-Wiener Index	1.36		76.92
Abundance (#/m2)	9360	1	9.56
Deep Deposit Feeder Abundance (%)	96.63	1	77.88
Carnivore-Omnivore Abundance (%)	3.37		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Aulodrilus pigueti	180		
Branchiura sowerbyi	45		0.00225
Chironomidae			0.00225
Coelotanypus spp.	180		0.00225
Ilyodrilus templetoni	180		
Imm. Tubificid w/ Cap. Chaete *	1350		
Imm. Tubificid w/o Cap. Chaete *	7020		
Limnodrilus hoffmeisteri	180		
Limnodrilus udekemianus	90		
Oligochaeta			1.39725
Procladius spp.	45		
Synidotea laticauda (Epi)	225		0.04500
Tanypus neopunctipennis	90		
Total Abundance w/ Epi.	9585		
Total Abundance w/o Epi.	9360		
Number of Taxa w/ Epi.	9		
Number of Taxa w/o Epi.	8		
Total Biomass w/ Epi.			1.44900
Total Biomass w/o Epi.			1.40400

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patuxent River		Station: 079		Rep: 02	
Gear: Wildco Box Corer		Habitat: Tidal Freshwater		Date: 21SEP01	
		Sampled Area: 0.022 sq.m		Time: 10:33:57	
BOTTOM ENVIRONMENT					
Depth (m): 1.5		Salinity (ppt): 1.18		Temperature (C): 21.82	
Dissolved Oxygen (mg/l): 6.8		Sediment Silt-Clay (%): 83.22		Total Carbon (%): 3.39	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.50		Condition: Degraded		# Attributes Scored: 4	
	Value	Score		Value	Score
Shannon-Wiener Index	1.41		T.F. Pollution Indicative Spp. Abund. (%)	70.59	3
Abundance (#/m2)	6885	1	Tolerance Score	9.29	3
Deep Deposit Feeder Abundance (%)	94.77	3	Limnodrilus Abundance (%)	70.59	
Carnivore-Omnivore Abundance (%)	5.23				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Apocorophium lacustre (Epi)	45		0.00225		
Aulodrilus limnobius	90				
Aulodrilus pigueti	270				
Branchiura sowerbyi	45		0.00900		
Chironomidae			0.00225		
Coelotanypus spp.	225		0.01800		
Cryptochironomus spp.	45				
Harnischia spp.	90				
Imm. Tubificid w/ Cap. Chaete	1260				
Imm. Tubificid w/o Cap. Chaete	4860				
Oligochaeta			0.97650		
Total Abundance w/ Epi.	6930				
Total Abundance w/o Epi.	6885				
Number of Taxa w/ Epi.	9				
Number of Taxa w/o Epi.	8				
Total Biomass w/ Epi.			1.00800		
Total Biomass w/o Epi.			1.00575		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 201		Rep: 01	
Gear: Wildco Box Corer		Habitat: Low Mesohaline		Date: 11SEP01	
		Sampled Area: 0.022 sq.m		Time: 10:04:40	
BOTTOM ENVIRONMENT					
Depth (m): 4.0		Salinity (ppt): 11.04		Temperature (C): 26.02	
Dissolved Oxygen (mg/l): 4.2		Sediment Silt-Clay (%): 90.49		Total Carbon (%): 6.42	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 1.40		Condition: Severely Degr.		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	0.88	1	Pollution Indicative Species Abundance (%)	30.00	1
Abundance (#/m2)	450	1	Pollution Indicative Species Biomass (%)	0.26	
Biomass (g/m2)	0.86	1	Pollution Sensitive Species Abundance (%)	70.00	
Carnivore-Omnivore Abundance (%)	0.00		Pollution Sensitive Species Biomass (%)	99.74	3
Deep Deposit Feeder Abundance (%)	0.00				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Macoma balthica	315		0.85950		
Streblospio benedicti	135		0.00225		
Total Abundance w/ Epi.	450				
Total Abundance w/o Epi.	450				
Number of Taxa w/ Epi.	2				
Number of Taxa w/o Epi.	2				
Total Biomass w/ Epi.			0.86175		
Total Biomass w/o Epi.			0.86175		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patapsco & Back Rivers	Station: 201	Rep: 02
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 11SEP01
	Sampled Area: 0.022 sq.m	Time: 10:04:40
BOTTOM ENVIRONMENT		
Depth (m): 4.0	Salinity (ppt): 11.04	Temperature (C): 26.02
Dissolved Oxygen (mg/l): 4.2	Sediment Silt-Clay (%): 90.49	Total Carbon (%): 6.42
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 1.80	Condition: Severely Degr.	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	1.46 1	Pollution Indicative Species Abundance (%) 77.27 1
Abundance (#/m2)	990 3	Pollution Indicative Species Biomass (%) 11.11
Biomass (g/m2)	0.65 1	Pollution Sensitive Species Abundance (%) 9.09
Carnivore-Omnivore Abundance (%)	9.09	Pollution Sensitive Species Biomass (%) 60.42 3
Deep Deposit Feeder Abundance (%)	0.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	45	0.11250
Eteone heteropoda	45	0.03600
Hobsonia florida	45	0.01350
Macoma balthica	90	0.39150
Macoma mitchelli	45	0.05850
Streblospio benedicti	720	0.03600
Total Abundance w/ Epi.	990	
Total Abundance w/o Epi.	990	
Number of Taxa w/ Epi.	6	
Number of Taxa w/o Epi.	6	
Total Biomass w/ Epi.		0.64800
Total Biomass w/o Epi.		0.64800

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 201	Rep: 03
Gear: Wildco Box Corer		Habitat: Low Mesohaline	Date: 11SEP01
		Sampled Area: 0.022 sq.m	Time: 10:04:40
BOTTOM ENVIRONMENT			
Depth (m): 4.0	Salinity (ppt): 11.04	Temperature (C): 26.02	
Dissolved Oxygen (mg/l): 4.2	Sediment Silt-Clay (%): 90.49	Total Carbon (%): 6.42	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score: 2.60	Condition: Degraded		# Attributes Scored: 5
	Value	Score	Value Score
Shannon-Wiener Index	1.22	1	Pollution Indicative Species Abundance (%) 81.82 1
Abundance (#/m2)	2475	5	Pollution Indicative Species Biomass (%) 6.93
Biomass (g/m2)	1.69	3	Pollution Sensitive Species Abundance (%) 9.09
Carnivore-Omnivore Abundance (%)	12.73		Pollution Sensitive Species Biomass (%) 48.80 3
Deep Deposit Feeder Abundance (%)	1.82		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Eteone heteropoda	135		0.03600
Macoma balthica	225		0.82350
Neanthes succinea	180		0.72900
Streblospio benedicti	1890		0.08100
Tubificoides spp.	45		0.01800
Total Abundance w/ Epi.	2475		
Total Abundance w/o Epi.	2475		
Number of Taxa w/ Epi.	5		
Number of Taxa w/o Epi.	5		
Total Biomass w/ Epi.			1.68750
Total Biomass w/o Epi.			1.68750

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patapsco & Back Rivers	Station: 202	Rep: 01
Gear: Wildco Box Corer	Habitat: Low Mesohaline	Date: 11SEP01
	Sampled Area: 0.022 sq.m	Time: 8:28:59
BOTTOM ENVIRONMENT		
Depth (m): 6.5	Salinity (ppt): 11.44	Temperature (C): 25.58
Dissolved Oxygen (mg/l): 4.1	Sediment Silt-Clay (%): 67.48	Total Carbon (%): 4.49
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.40	Condition: Meets Goal	# Attributes Scored: 5
	Value Score	Value Score
Shannon-Wiener Index	2.10 3	Pollution Indicative Species Abundance (%) 14.29 3
Abundance (#/m2)	945 3	Pollution Indicative Species Biomass (%) 0.30
Biomass (g/m2)	1.48 3	Pollution Sensitive Species Abundance (%) 47.62
Carnivore-Omnivore Abundance (%)	14.29	Pollution Sensitive Species Biomass (%) 93.62 5
Deep Deposit Feeder Abundance (%)	0.00	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Americamysis bigelowi (Epi)	45	0.00225
Carinoma tremaphoros	90	0.07650
Eteone heteropoda	45	0.00225
Leptocheirus plumulosus	270	0.01350
Macoma balthica	405	1.35900
Marenzelleria viridis	45	0.02700
Streblospio benedicti	90	0.00225
Total Abundance w/ Epi.	990	
Total Abundance w/o Epi.	945	
Number of Taxa w/ Epi.	7	
Number of Taxa w/o Epi.	6	
Total Biomass w/ Epi.		1.48275
Total Biomass w/o Epi.		1.48050

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 202	Rep: 02
Gear: Wildco Box Corer		Habitat: Low Mesohaline	Date: 11SEP01
		Sampled Area: 0.022 sq.m	Time: 8:28:59
BOTTOM ENVIRONMENT			
Depth (m): 6.5	Salinity (ppt): 11.44	Temperature (C): 25.58	
Dissolved Oxygen (mg/l): 4.1	Sediment Silt-Clay (%): 67.48	Total Carbon (%): 4.49	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score: 2.60	Condition: Degraded		# Attributes Scored: 5
	Value	Score	Value Score
Shannon-Wiener Index	1.73	3	Pollution Indicative Species Abundance (%) 0.00 5
Abundance (#/m2)	585	3	Pollution Indicative Species Biomass (%) 0.00
Biomass (g/m2)	0.39	1	Pollution Sensitive Species Abundance (%) 15.38
Carnivore-Omnivore Abundance (%)	30.77		Pollution Sensitive Species Biomass (%) 32.18 1
Deep Deposit Feeder Abundance (%)	0.00		
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Carinoma tremaphoros	90		0.17550
Leptocheirus plumulosus	315		0.08550
Macoma balthica	90		0.12600
Mysidae (Epi)	45		0.00225
Neanthes succinea	90		0.00450
Total Abundance w/ Epi.	630		
Total Abundance w/o Epi.	585		
Number of Taxa w/ Epi.	5		
Number of Taxa w/o Epi.	4		
Total Biomass w/ Epi.			0.39375
Total Biomass w/o Epi.			0.39150

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 202		Rep: 03	
Gear: Wildco Box Corer		Habitat: Low Mesohaline		Date: 11SEP01	
		Sampled Area: 0.022 sq.m		Time: 8:28:59	
BOTTOM ENVIRONMENT					
Depth (m): 6.5		Salinity (ppt): 11.44		Temperature (C): 25.58	
Dissolved Oxygen (mg/l): 4.1		Sediment Silt-Clay (%): 67.48		Total Carbon (%): 4.49	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 3.00		Condition: Meets Goal		# Attributes Scored: 5	
	Value	Score		Value	Score
Shannon-Wiener Index	2.10	3	Pollution Indicative Species Abundance (%)	31.03	1
Abundance (#/m2)	1305	3	Pollution Indicative Species Biomass (%)	0.11	
Biomass (g/m2)	2.07	3	Pollution Sensitive Species Abundance (%)	44.83	
Carnivore-Omnivore Abundance (%)	6.90		Pollution Sensitive Species Biomass (%)	99.35	5
Deep Deposit Feeder Abundance (%)	6.90				
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Carinoma tremaphoros	45		0.00225		
Imm. Tubificid w/o Cap. Chaete	45				
Leptocheirus plumulosus	180		0.00225		
Macoma balthica	585		2.05650		
Neanthes succinea	45		0.00225		
Oligochaeta			0.00225		
Streblospio benedicti	360		0.00225		
Tubificoides spp.	45		0.00225		
Total Abundance w/ Epi.	1305				
Total Abundance w/o Epi.	1305				
Number of Taxa w/ Epi.	7				
Number of Taxa w/o Epi.	7				
Total Biomass w/ Epi.			2.07000		
Total Biomass w/o Epi.			2.07000		

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 203	Rep: 01
Gear: Young Grab		Habitat: Oligohaline	Date: 21SEP01
		Sampled Area: 0.044 sq.m	Time: 13:07:27
BOTTOM ENVIRONMENT			
Depth (m): 2.0	Salinity (ppt): 6.21	Temperature (C): 22.24	
Dissolved Oxygen (mg/l): 4.8	Sediment Silt-Clay (%): 98.32	Total Carbon (%): 5.14	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score: 2.00	Condition: Severely Degr.		# Attributes Scored: 6
	Value	Score	Value Score
Shannon-Wiener Index	1.58		Oligohaline Pollution Indicative Spp. Abund. 98.60 1
Abundance (#/m2)	30808	1	Tolerance Score 9.78 1
Deep Deposit Feeder Abundance (%)	30.97		Oligohaline Pollution Sensitive Spp. Abund. 1.33 3
Carnivore-Omnivore Abundance (%)	5.38	1	Tanypodinae/Chironomidae Abundance Ratio 1.45 5
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)		Biomass (g/m2)
Chironomidae			0.27264
Chironomus spp.	1545		
Coelotanypus spp.	23		0.01136
Imm. Tubificid w/o Cap. Chaete *	8452		
Leptocheirus plumulosus	523		0.12042
Limnodrilus hoffmeisteri	204		
Marenzelleria viridis	409		1.52451
Neanthes succinea	91		0.26355
Oligochaeta			0.46359
Rangia cuneata	23		0.01136
Streblospio benedicti	18653		1.70173
Synidotea laticauda (Epi)	23		0.08179
Tubificoides spp.	886		0.02954
Total Abundance w/ Epi.	30831		
Total Abundance w/o Epi.	30808		
Number of Taxa w/ Epi.	10		
Number of Taxa w/o Epi.	9		
Total Biomass w/ Epi.			4.48049
Total Biomass w/o Epi.			4.39869

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 203		Rep: 02	
Gear: Young Grab		Habitat: Oligohaline		Date: 21SEP01	
		Sampled Area: 0.044 sq.m		Time: 13:07:27	
BOTTOM ENVIRONMENT					
Depth (m): 2.0		Salinity (ppt): 6.21		Temperature (C): 22.24	
Dissolved Oxygen (mg/l): 4.8		Sediment Silt-Clay (%): 98.32		Total Carbon (%): 5.14	
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score: 2.00		Condition: Severely Degr.		# Attributes Scored: 6	
	Value	Score		Value	Score
Shannon-Wiener Index	1.49		Oligohaline Pollution Indicative Spp. Abund.	99.29	1
Abundance (#/m2)	35307	1	Tolerance Score	9.75	1
Deep Deposit Feeder Abundance (%)	26.90		Oligohaline Pollution Sensitive Spp. Abund.	0.58	3
Carnivore-Omnivore Abundance (%)	4.57	1	Tanypodinae/Chironomidae Abundance Ratio	8.82	5
BENTHIC ABUNDANCE (per sq. meter)					
TAXA	Abundance (#/m2)		Biomass (g/m2)		
Carinoma tremaphoros	23		0.01590		
Chironomidae			0.28627		
Chironomus spp.	1409				
Coelotanypus spp.	136		0.04317		
Hobsonia florida	23		0.00909		
Imm. Tubificid w/o Cap. Chaete	8179				
Leptocheirus plumulosus	682		0.17494		
Limnodrilus hoffmeisteri	68				
Marenzelleria viridis	204		0.76112		
Neanthes succinea	45		0.18858		
Oligochaeta			0.29054		
Polydora cornuta	91		0.00909		
Streblospio benedicti	23197		2.05616		
Tubificoides spp.	1250		0.03408		
Total Abundance w/ Epi.	35307				
Total Abundance w/o Epi.	35307				
Number of Taxa w/ Epi.	11				
Number of Taxa w/o Epi.	11				
Total Biomass w/ Epi.			3.86894		
Total Biomass w/o Epi.			3.86894		

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Patapsco & Back Rivers		Station: 203	Rep: 03
Gear: Young Grab		Habitat: Oligohaline	Date: 21SEP01
		Sampled Area: 0.044 sq.m	Time: 13:07:27
BOTTOM ENVIRONMENT			
Depth (m): 2.0	Salinity (ppt): 6.21	Temperature (C): 22.24	
Dissolved Oxygen (mg/l): 4.8	Sediment Silt-Clay (%): 98.32	Total Carbon (%): 5.14	
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score: 2.00	Condition: Severely Degr.	# Attributes Scored: 6	
	Value	Score	Value
Shannon-Wiener Index	1.55		Score
Abundance (#/m2)	39010	1	Oligohaline Pollution Indicative Spp. Abund. 99.42 1
Deep Deposit Feeder Abundance (%)	31.04		Tolerance Score 9.79 1
Carnivore-Omnivore Abundance (%)	7.80	1	Oligohaline Pollution Sensitive Spp. Abund. 0.47 3
			Tanypodinae/Chironomidae Abundance Ratio 0.76 5
BENTHIC ABUNDANCE (per sq. meter)			
TAXA	Abundance (#/m2)	Biomass (g/m2)	
Carinoma tremaphoros	23	0.00114	
Chironomidae		0.95424	
Chironomus spp.	2976		
Coelotanypus spp.	23	0.00114	
Heteromastus filiformis	23	0.00682	
Imm. Tubificid w/o Cap. Chaete *	10996		
Leptocheirus plumulosus	386	0.39533	
Limnodrilus hoffmeisteri	454		
Marenzelleria viridis	182	0.60435	
Neanthes succinea	23	0.00227	
Oligochaeta		0.26469	
Polydora cornuta	23	0.00114	
Rangia cuneata	23	0.58618	
Streblospio benedicti	23243	2.05843	
Synidotea laticauda (Epi)	159	0.21811	
Tubificoides spp.	636	0.00114	
Total Abundance w/ Epi.	39169		
Total Abundance w/o Epi.	39010		
Number of Taxa w/ Epi.	13		
Number of Taxa w/o Epi.	12		
Total Biomass w/ Epi.		5.09496	
Total Biomass w/o Epi.		4.87685	

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Lower Western Shore	Station: 204	Rep: 01
Gear: Young Grab	Habitat: High Mesohaline Mud	Date: 12SEP01
	Sampled Area: 0.044 sq.m	Time: 10:55:12
BOTTOM ENVIRONMENT		
Depth (m): 7.5	Salinity (ppt): 13.08	Temperature (C): 25.82
Dissolved Oxygen (mg/l): 4.8	Sediment Silt-Clay (%): 76.28	Total Carbon (%): 2.68
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 4.33	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	3.13 5	Pollution Indicative Species Abundance (%) 23.08
Abundance (#/m2)	1181 3	Pollution Indicative Species Biomass (%) 0.62 5
Biomass (g/m2)	1.65 3	Pollution Sensitive Species Abundance (%) 23.08
Carnivore-Omnivore Abundance (%)	34.62 5	Pollution Sensitive Species Biomass (%) 68.36 5
Deep Deposit Feeder Abundance (%)	28.85	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	45	0.01363
Eteone heteropoda	114	0.00909
Heteromastus filiformis	68	0.00114
Imm. Tubificid w/o Cap. Chaete	91	
Leptocheirus plumulosus	68	0.00227
Macoma balthica	273	1.12918
Macoma mitchelli	23	0.00114
Neanthes succinea	204	0.49075
Oligochaeta		0.00114
Paraesionia luteola	45	0.00114
Streblospio benedicti	68	0.00114
Tubificoides spp.	182	0.00114
Total Abundance w/ Epi.	1181	
Total Abundance w/o Epi.	1181	
Number of Taxa w/ Epi.	11	
Number of Taxa w/o Epi.	11	
Total Biomass w/ Epi.		1.65174
Total Biomass w/o Epi.		1.65174

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Lower Western Shore	Station: 204	Rep: 02
Gear: Young Grab	Habitat: High Mesohaline Mud	Date: 12SEP01
	Sampled Area: 0.044 sq.m	Time: 10:55:12
BOTTOM ENVIRONMENT		
Depth (m): 7.5	Salinity (ppt): 13.08	Temperature (C): 25.82
Dissolved Oxygen (mg/l): 4.8	Sediment Silt-Clay (%): 76.28	Total Carbon (%): 2.68
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.33	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.43 3	Pollution Indicative Species Abundance (%) 0.00
Abundance (#/m2)	863 1	Pollution Indicative Species Biomass (%) 0.00 5
Biomass (g/m2)	1.70 3	Pollution Sensitive Species Abundance (%) 15.79
Carnivore-Omnivore Abundance (%)	36.84 5	Pollution Sensitive Species Biomass (%) 51.87 3
Deep Deposit Feeder Abundance (%)	44.74	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	68	0.04771
Heteromastus filiformis	136	0.10906
Macoma balthica	136	0.88381
Macoma mitchelli	23	0.10906
Neanthes succinea	227	0.50438
Paraesionne luteola	23	0.02499
Tubificoides spp.	250	0.02499
Total Abundance w/ Epi.	863	
Total Abundance w/o Epi.	863	
Number of Taxa w/ Epi.	7	
Number of Taxa w/o Epi.	7	
Total Biomass w/ Epi.		1.70400
Total Biomass w/o Epi.		1.70400

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 01:2001/2002) FIXED STATIONS

Watershed: Lower Western Shore	Station: 204	Rep: 03
Gear: Young Grab	Habitat: High Mesohaline Mud	Date: 12SEP01
	Sampled Area: 0.044 sq.m	Time: 10:55:12
BOTTOM ENVIRONMENT		
Depth (m): 7.5	Salinity (ppt): 13.08	Temperature (C): 25.82
Dissolved Oxygen (mg/l): 4.8	Sediment Silt-Clay (%): 76.28	Total Carbon (%): 2.68
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score: 3.33	Condition: Meets Goal	# Attributes Scored: 6
	Value Score	Value Score
Shannon-Wiener Index	2.43 3	Pollution Indicative Species Abundance (%) 0.00
Abundance (#/m2)	886 1	Pollution Indicative Species Biomass (%) 0.00 5
Biomass (g/m2)	1.82 3	Pollution Sensitive Species Abundance (%) 25.64
Carnivore-Omnivore Abundance (%)	38.46 5	Pollution Sensitive Species Biomass (%) 45.91 3
Deep Deposit Feeder Abundance (%)	33.33	
BENTHIC ABUNDANCE (per sq. meter)		
TAXA	Abundance (#/m2)	Biomass (g/m2)
Carinoma tremaphoros	68	0.03862
Heteromastus filiformis	250	0.07270
Leptocheirus plumulosus	23	0.00682
Macoma balthica	227	0.83610
Neanthes succinea	204	0.86336
Paraesionia luteola	68	0.00227
Tubificoides spp.	45	0.00114
Total Abundance w/ Epi.	886	
Total Abundance w/o Epi.	886	
Number of Taxa w/ Epi.	7	
Number of Taxa w/o Epi.	7	
Total Biomass w/ Epi.		1.82101
Total Biomass w/o Epi.		1.82101

DATA SUMMARY C

**BENTHIC ENVIRONMENT AND COMMUNITY
COMPOSITION AT THE MARYLAND BAY
RANDOM SITES: SUMMER 2001**

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08401	08402	08403	08405	08406
Watershed	Eastern Tribs	Eastern Tribs	Eastern Tribs	Eastern Tribs	Eastern Tribs
Habitat	Low Mesohaline	Low Mesohaline	Low Mesohaline	High Meso Mud	High Meso Mud
Date	09/24/01	09/24/01	09/24/01	09/05/01	09/05/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	2.7	6.8	1.5	2.0	3.0
Salinity (ppt)	11.42	9.39	5.43	16.99	17.04
Temperature (C)	24.80	24.08	23.81	24.56	24.94
Dissolved Oxygen (mg/L)	9.8	8.1	9.6	6.9	6.5
Sediment Silt-Clay (%)	4.62	88.53	72.94	75.18	66.53
Total Carbon (%)	0.11	2.64	4.57	3.20	2.29
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.40	2.60	2.60	3.00	2.67
Condition	Meets Goal	Degraded	Degraded	Meets Goal	Marginal
# Attributes Scored	5	5	5	6	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.35 3	1.41 1	2.36 3	3.16 5	2.01 3
Abundance (#/m2)	3590 3	7498 1	5112 3	659 1	795 1
Biomass (g/m2)	2.40 3	1.60 3	1.10 3	0.51 3	0.13 1
Pollution Indicative Spp Abund (%)	4.43 5	4.85 5	26.67 1	10.34	11.43
Pollution Indicative Spp Biom (%)	0.57	2.98	3.11	26.85 3	3.57 5
Pollution Sensitive Spp Abund (%)	61.39	16.67	7.56	51.72	68.57
Pollution Sensitive Spp Biom (%)	75.67 3	66.48 3	58.51 3	11.63 1	26.79 1
Carnivore-Omnivore Abundance (%)	21.52	20.61	6.22	41.38 5	68.57 5
Deep Deposit Feeder Abundance (%)	20.25	0.00	17.78	34.48	11.43

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08401	08402	08403	08405	08406
Acteocina canaliculata				136	454
Ameroculodes species complex			23		
Ampelisca abdita					68
Amphiporus bioculatus					23
Apocorophium lacustre (Epi.)		23			
Boccardiella ligERICA		5566			
Carinoma tremaphoros	114	91	23		
Coelotanypus spp.			159		
Cryptochironomus spp.			23		
Cyathura polita	591	1045	91		
Cyclaspis varians	23				
Edotea triloba (Epi.)		136	23		
Eteone heteropoda	23	227			
Gammarus daiberi (Epi.)			23		
Glycinde solitaria	23			68	
Haminoea solitaria				68	23
Heteromastus filiformis	727				
Hobsonia florida			45		
Imm. Tubificid w/o Cap. Chaete *			432		
Leitoscoloplos robustus				23	
Leitoscoloplos spp. *				23	
Leptocheirus plumulosus	114		2681		
Leucon americanus		23			
Limnodrilus hoffmeisteri			23		
Littoridinops tenuipes (Epi.)	23				
Macoma balthica		23			
Macoma mitchelli	227	23		68	
Marenzelleria viridis	1590	91	273		

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	08401	08402	08403	08405	08406
Mediomastus ambiseta				136	91
Melinna maculata				23	
Melita nitida (Epi.)			23		
Mulinia lateralis				23	
Neanthes succinea	23	182			
Neomysis americana (Epi.)		23			
Paraprionospio pinnata				45	91
Polydora cornuta			91		
Procladius spp.			23		
Ptilanthura tenuis					45
Rangia cuneata		91	23		
Streblospio benedicti	136	136	750		
Tubificoides spp.			454	45	
Total Abundance w/ Epifauna	3612	7679	5180	659	795
Total Abundance w/o Epifauna	3590	7498	5112	659	795
Number of Taxa w/ Epifauna	12	14	17	10	7
Number of Taxa w/o Epifauna	11	11	14	10	7
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08401	08402	08403	08405	08406
Acteocina canaliculata				0.0114	0.0227
Ameroculodes species complex			0.0045		
Ampelisca abdita					0.0068
Amphiporus bioculatus					0.0068
Apocorophium lacustre (Epi.)		0.0011			

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08401	08402	08403	08405	08406
Boccardiella ligERICA		0.2636			
Carinoma tremaphoros	0.0364	0.0295	0.0023		
Chironomidae			0.0011		
Coelotanypus spp.			0.0068		
Cyathura polita	0.2885	0.7861	0.0204		
Cyclaspis varians	0.0011				
Edotea triloba (Epi.)		0.0204	0.0011		
Eteone heteropoda	0.0114	0.0273			
Gammarus spp. (Epi.)			0.0011		
Glycinde solitaria	0.0045			0.0386	
Haminoea solitaria				0.0227	0.0091
Heteromastus filiformis	0.4680				
Hobsonia florida			0.0045		
Leitoscoloplos robustus				0.1250	
Leitoscoloplos spp. *				0.0204	
Leptocheirus plumulosus	0.0182		0.3931		
Leucon americanus		0.0159			
Littoridinops tenuipes (Epi.)	0.0011				
Macoma balthica		0.1000			
Macoma mitchelli	0.0364	0.0204		0.0772	
Marenzelleria viridis	1.5268	0.0841	0.6180		
Mediomastus ambiseta				0.0091	0.0114
Melinna maculata				0.0602	
Melita nitida (Epi.)			0.0011		
Mulinia lateralis				0.0114	
Neanthes succinea	0.0114	0.1590			
Neomysis americana (Epi.)		0.0227			
Oligochaeta			0.0011		

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08401	08402	08403	08405	08406
Paraprionospio pinnata			0.0068	0.1250	0.0045
Polydora cornuta					0.0659
Ptilanthura tenuis					
Rangia cuneata		0.0932	0.0023		
Streblospio benedicti	0.0023	0.0204	0.0273		
Tubificoides spp.			0.0068	0.0068	
Total Biomass w/ Epifauna	2.4060	1.6438	1.0985	0.5078	0.1272
Total Biomass w/o Epifauna	2.4049	1.5995	1.0951	0.5078	0.1272

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08407	08408	08409	08411	08413
Watershed	Eastern Tribs	Eastern Tribs	Eastern Tribs	Eastern Tribs	Eastern Tribs
Habitat	High Meso Sand	Low Mesohaline	Low Mesohaline	Low Mesohaline	High Meso Sand
Date	09/05/01	09/05/01	09/24/01	09/04/01	09/04/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	2.0	2.0	3.8	5.0	3.0
Salinity (ppt)	16.18	10.00	6.62	9.97	12.57
Temperature (C)	25.14	25.91	23.32	26.26	25.92
Dissolved Oxygen (mg/L)	7.2	6.5	9.5	6.5	6.3
Sediment Silt-Clay (%)	3.64	63.43	85.67	66.83	25.56
Total Carbon (%)	0.10	2.97	2.20	2.24	0.31
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	4.67	3.40	2.60	3.80	3.33
Condition	Meets Goal	Meets Goal	Degraded	Meets Goal	Meets Goal
# Attributes Scored	6	5	5	5	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	3.20 5	3.37 5	0.92 1	2.79 5	2.97 3
Abundance (#/m2)	1954 5	1181 3	9724 1	3885 3	2567 5
Biomass (g/m2)	2.92 3	0.88 1	1.65 3	4.97 3	1.93 3
Pollution Indicative Spp Abund (%)	2.33 5	19.23 3	0.00 5	11.11 3	22.12 3
Pollution Indicative Spp Biom (%)	9.49	1.67	0.00	0.25	38.52
Pollution Sensitive Spp Abund (%)	63.95 5	38.46	13.55	40.35	19.47 3
Pollution Sensitive Spp Biom (%)	4.35	91.14 5	73.38 3	87.76 5	23.20
Carnivore-Omnivore Abundance (%)	47.67 5	44.23	13.79	24.56	28.32 3
Deep Deposit Feeder Abundance (%)	34.88	28.85	0.23	42.11	38.05

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08407	08408	08409	08411	08413
<i>Acteocina canaliculata</i>	568				91
<i>Americamysis bigelowi</i> (Epi.)					23
<i>Ampelisca abdita</i>	23				
<i>Ampelisca verrilli</i>	23				
<i>Amphiporus bioculatus</i>				68	
<i>Boccardiella ligerica</i>			8043		
<i>Carinoma tremaphoros</i>		136			23
<i>Chiridotea almyra</i>			341		
<i>Coelotanypus</i> spp.				23	
<i>Cyathura polita</i>		273	1000	613	23
<i>Eteone heteropoda</i>				23	
Gastropoda (Epi.)		23			
<i>Gemma gemma</i>					45
<i>Glycinde solitaria</i>	227	91			227
<i>Haminoea solitaria</i>	45				
<i>Heteromastus filiformis</i>	273	159		250	863
Imm. Tubificid w/o Cap. Chaete		114			
Imm. Tubificid w/o Cap. Chaete *				91	
<i>Lepidactylus dytiscus</i>					23
<i>Leptosynapta tenuis</i>	45				
<i>Leucon americanus</i>		23			
<i>Limnodrilus hoffmeisteri</i>				23	
<i>Listriella barnardi</i>	45				
<i>Macoma balthica</i>		45		909	136
<i>Macoma mitchelli</i>		91		68	68
<i>Marenzelleria viridis</i>		45	318		23
<i>Mediomastus ambiseta</i>	364				
<i>Melita nitida</i> (Epi.)				45	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	08407	08408	08409	08411	08413
Mulinia lateralis	23	68			477
Nassarius trivittatus	45				
Neanthes succinea		23		68	364
Parahesionia luteola				159	
Pectinaria gouldii					23
Phoronis spp.	45				
Ptilanthura tenuis	45				
Rangia cuneata				45	
Scolelepis texana	68				
Spiophanes bombyx	45				
Streblospio benedicti	23	45		273	91
Stylochus ellipticus (Epi.)	23				
Tubificoides spp.	45	68	23	1272	91
Total Abundance w/ Epifauna	1977	1204	9724	3931	2590
Total Abundance w/o Epifauna	1954	1181	9724	3885	2567
Number of Taxa w/ Epifauna	18	14	5	14	16
Number of Taxa w/o Epifauna	17	13	5	13	15
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08407	08408	08409	08411	08413
Acteocina canaliculata	0.0500				0.0068
Americamysis bigelowi (Epi.)					0.0023
Ampelisca abdita	0.0136				
Ampelisca verrilli	0.0159				
Amphiporus bioculatus				0.0091	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08407	08408	08409	08411	08413
Boccardiella ligERICA			0.3817		
Carinoma tremaphoros		0.0227			0.0136
Chiridotea almyra			0.0545		
Coelotanypus spp.				0.0011	
Cyathura polita		0.4476	0.7180	0.6839	0.0454
Eteone heteropoda				0.0023	
Gastropoda (Epi.)		0.0091			
Gemma gemma					0.0023
Glycinde solitaria	0.0364	0.0454			0.0772
Haminoea solitaria	0.0182				
Heteromastus filiformis	0.0432	0.0341		0.1204	0.1977
Lepidactylus dytiscus					0.0045
Leptosynapta tenuis	0.0341				
Leucon americanus		0.0011			
Listriella barnardi	0.0011				
Macoma balthica		0.2113		3.6738	0.2863
Macoma mitchelli		0.0023		0.0273	0.0227
Marenzelleria viridis		0.1022	0.4908		0.0318
Mediomastus ambiseta	0.0091				
Melita nitida (Epi.)				0.0011	
Mulinia lateralis	0.2704	0.0136			0.7384
Nassarius trivittatus	2.3742				
Neanthes succinea		0.0011		0.4271	0.4953
Oligochaeta		0.0011		0.0011	
Paraesionia luteola				0.0023	
Pectinaria gouldii					0.0011
Phoronis spp.	0.0045				
Ptilanthura tenuis	0.0045				

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.						
Site	08407	08408	08409	08411	08413	
Rangia cuneata				0.0068		
Scolecopsis texana	0.0114					
Spiophanes bombyx	0.0273					
Streblospio benedicti	0.0068	0.0011		0.0091	0.0045	
Stylochus ellipticus (Epi.)	0.0011					
Tubificoides spp.	0.0011	0.0011	0.0023	0.0091	0.0011	
Total Biomass w/ Epifauna	2.9229	0.8940	1.6472	4.9745	1.9312	
Total Biomass w/o Epifauna	2.9218	0.8849	1.6472	4.9734	1.9289	

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08414		08416		08417		08418		08419	
Watershed	Eastern Tribs		Eastern Tribs		Eastern Tribs		Eastern Tribs		Eastern Tribs	
Habitat	Low Mesohaline		High Meso Mud		High Meso Mud		High Meso Mud		High Meso Sand	
Date	09/04/01		09/10/01		09/10/01		09/10/01		09/10/01	
Gear	Young Grab		Young Grab		Young Grab		Young Grab		Young Grab	
Sampled Area (sq.m)	0.044		0.044		0.044		0.044		0.044	
BOTTOM ENVIRONMENT										
Depth (m)	3.0		6.5		8.5		13.0		3.0	
Salinity (ppt)	8.29		13.20		13.23		13.45		12.22	
Temperature (C)	26.40		25.40		25.38		25.35		25.48	
Dissolved Oxygen (mg/L)	5.7		3.4		3.5		2.9		6.1	
Sediment Silt-Clay (%)	71.81		54.75		69.26		91.02		7.73	
Total Carbon (%)	2.97		1.24		1.89		3.11		0.32	
BENTHIC INDEX OF BIOTIC INTEGRITY										
B-IBI Score	1.80		3.33		4.67		1.33		2.00	
Condition	Severely Degr.		Meets Goal		Meets Goal		Severely Degr.		Severely Degr.	
# Attributes Scored	5		6		6		6		6	
	Value	Score	Value	Score	Value	Score	Value	Score	Value	Score
Shannon-Wiener Index	2.33	3	2.61	3	3.13	5	2.33	3	2.54	3
Abundance (#/m2)	12632	1	4180	3	1272	3	341	1	9656	1
Biomass (g/m2)	3.41	3	2.49	5	4.61	5	0.41	1	2.88	3
Pollution Indicative Spp Abund (%)	33.63	1	8.15		7.14		33.33		21.65	3
Pollution Indicative Spp Biom (%)	1.97		9.75	3	2.22	5	36.67	1	49.43	
Pollution Sensitive Spp Abund (%)	0.18		12.50		26.79		0.00		5.65	1
Pollution Sensitive Spp Biom (%)	0.03	1	25.79	1	67.83	5	0.00	1	8.92	
Carnivore-Omnivore Abundance (%)	25.72		28.80	5	39.29	5	6.67	1	7.53	1
Deep Deposit Feeder Abundance (%)	41.19		57.61		32.14		46.67		20.94	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08414	08416	08417	08418	08419
<i>Amphiporus bioculatus</i>		68	45		114
Anthozoa	45				
<i>Apocorophium lacustre</i> (Epi.)	114				
<i>Balanus improvisus</i> (Epi.)	1363				
<i>Boccardiella ligERICA</i>	91				
<i>Carinoma tremaphoros</i>	23	68	91	23	45
<i>Cyathura polita</i>	23				114
<i>Cyclaspis varians</i>					1568
<i>Edotea triloba</i> (Epi.)					204
<i>Edwardsia elegans</i>					23
<i>Eteone heteropoda</i>	227				23
<i>Glycinde solitaria</i>		318	91		318
<i>Heteromastus filiformis</i>	613	1954	182	91	1931
Imm. Tubificid w/o Cap. Chaete	432	114			
<i>Ischadium recurvum</i> (Epi.)	68				
<i>Leitoscoloplos</i> spp.			114	45	
<i>Leptocheirus plumulosus</i>		91		45	
<i>Macoma balthica</i>		159	250		23
<i>Macoma mitchelli</i>	45	45	23		3158
<i>Marenzelleria viridis</i>		45			91
<i>Melita nitida</i> (Epi.)	1091				
<i>Micrura leidyi</i>					23
<i>Mulinia lateralis</i>		45	91	114	1954
Mysidae (Epi.)			23		
<i>Mytilopsis leucophaeata</i> (Epi.)	45				
<i>Neanthes succinea</i>	2931	704	204		68
<i>Parahesion luteola</i>		45	68		
<i>Polydora cornuta</i>	454				

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	08414	08416	08417	08418	08419
Rhithropanopeus harrisii (Epi.)	250				
Streblospio benedicti	3590	182			114
Stylochus ellipticus (Epi.)	23				
Tubificoides spp.	4158	341	114	23	91
Total Abundance w/ Epifauna	15586	4180	1295	341	9860
Total Abundance w/o Epifauna	12632	4180	1272	341	9656
Number of Taxa w/ Epifauna	19	14	12	6	17
Number of Taxa w/o Epifauna	12	14	11	6	16
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08414	08416	08417	08418	08419
Amphiporus bioculatus		0.0114	0.0023		0.0136
Anthozoa	0.3204				
Apocorophium lacustre (Epi.)	0.0011				
Balanus improvisus (Epi.)	5.5414				
Boccardiella ligerica	0.0011				
Carinoma tremaphoros	0.0011	0.0409	0.0341	0.0295	0.0114
Cyathura polita	0.0011				0.0863
Cyclaspis varians					0.0477
Edotea triloba (Epi.)					0.0068
Edwardsia elegans					0.0011
Eteone heteropoda	0.0011				0.0011
Glycinde solitaria		0.0318	0.0250		0.0386
Heteromastus filiformis	0.1840	0.3544	0.1363	0.0273	0.4044
Ischadium recurvum (Epi.)	4.3145				

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08414	08416	08417	08418	08419
Leitoscoloplos spp.			0.5498	0.1613	
Leptocheirus plumulosus		0.0454		0.0364	
Macoma balthica		0.4771	3.1036		0.0750
Macoma mitchelli	0.0591	0.0409	0.0011		0.3703
Marenzelleria viridis		0.1340			0.0568
Melita nitida (Epi.)	0.1227				
Micrura leidyi					0.0841
Mulinia lateralis		0.2386	0.1022	0.1500	1.4200
Mysidae (Epi.)			0.0068		
Mytilopsis leucophaeata (Epi.)	0.0011				
Neanthes succinea	2.7128	1.0996	0.6543		0.2522
Oligochaeta	0.0011	0.0011			
Parahesionia luteola		0.0068	0.0023		
Polydora cornuta	0.0011				
Rhithropanopeus harrisi (Epi.)	1.5927				
Streblospio benedicti	0.0659	0.0045			0.0011
Stylochus ellipticus (Epi.)	0.0682				
Tubificoides spp.	0.0568	0.0068	0.0011	0.0045	0.0136
Total Biomass w/ Epifauna	15.0475	2.4935	4.6190	0.4090	2.8843
Total Biomass w/o Epifauna	3.4057	2.4935	4.6122	0.4090	2.8775

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08420	08421	08422	08426	08427
Watershed	Eastern Tribs	Eastern Tribs	Eastern Tribs	Eastern Tribs	Eastern Tribs
Habitat	High Meso Sand	High Meso Mud	Low Mesohaline	High Meso Sand	Low Mesohaline
Date	09/10/01	09/10/01	09/10/01	09/10/01	09/04/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	2.0	14.0	3.5	3.0	6.0
Salinity (ppt)	12.54	13.10	10.22	13.22	10.23
Temperature (C)	25.52	25.31	25.82	25.15	26.30
Dissolved Oxygen (mg/L)	6.7	2.7	6.9	5.7	6.3
Sediment Silt-Clay (%)	2.42	62.34	56.26	3.15	73.61
Total Carbon (%)	0.10	3.08	1.77	0.13	2.08
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	2.00	2.67	4.60	1.33	4.20
Condition	Severely Degr.	Marginal	Meets Goal	Severely Degr.	Meets Goal
# Attributes Scored	6	6	5	6	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.46 1	2.49 3	2.97 5	2.04 1	2.68 5
Abundance (#/m2)	3204 3	613 1	2363 5	3431 3	1272 3
Biomass (g/m2)	1.21 3	0.56 3	3.14 3	0.54 1	1.68 3
Pollution Indicative Spp Abund (%)	20.57 3	18.52	2.88 5	43.71 1	8.93 5
Pollution Indicative Spp Biom (%)	8.67	5.23 3	0.07	32.27	0.54
Pollution Sensitive Spp Abund (%)	2.84 1	0.00	44.23	3.97 1	58.93
Pollution Sensitive Spp Biom (%)	1.89	0.00 1	80.89 5	8.07	95.73 5
Carnivore-Omnivore Abundance (%)	8.51 1	62.96 5	47.12	4.64 1	30.36
Deep Deposit Feeder Abundance (%)	4.96	3.70	14.42	19.21	26.79

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08420	08421	08422	08426	08427
<i>Acteocina canaliculata</i>	23			23	
<i>Americamysis bigelowi</i> (Epi.)				68	
<i>Ameroculodes</i> species complex	23		23	23	
<i>Carinoma tremaphoros</i>		23	204	23	45
<i>Cyathura polita</i>	45		772	23	182
<i>Edotea triloba</i> (Epi.)		23	136		
<i>Eteone heteropoda</i>			23		
<i>Gemma gemma</i>	45				
<i>Glycinde solitaria</i>	23			68	45
<i>Haminoea solitaria</i>	136			23	
<i>Heteromastus filiformis</i>	114		227	636	23
Imm. Tubificid w/o Cap. Chaete		23			91
<i>Leitoscoloplos</i> spp.	23			23	
<i>Lepidactylus dytiscus</i>	1068			23	
<i>Leptocheirus plumulosus</i>		45	364	23	
<i>Macoma balthica</i>			227		477
<i>Macoma mitchelli</i>	977		204	1022	
<i>Marenzelleria viridis</i>			45	23	45
<i>Melita nitida</i> (Epi.)			68		
<i>Micrura leidyi</i>	23				
<i>Mulinia lateralis</i>	636	68	45	1500	23
<i>Neanthes succinea</i>	23	250	114		
<i>Parahesionia luteola</i>		114			114
<i>Paraprionospio pinnata</i>		23			
<i>Streblospio benedicti</i>	23				
Tellinidae		68			

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	08420	08421	08422	08426	08427
Tubificoides spp.	23		114		227
Total Abundance w/ Epifauna	3204	636	2567	3499	1272
Total Abundance w/o Epifauna	3204	613	2363	3431	1272
Number of Taxa w/ Epifauna	15	9	14	14	10
Number of Taxa w/o Epifauna	15	8	12	13	10
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08420	08421	08422	08426	08427
Acteocina canaliculata	0.0023			0.0011	
Americamysis bigelowi (Epi.)				0.0011	
Ameroculodes species complex	0.0011		0.0011	0.0011	
Carinoma tremaphoros		0.0114	0.0182	0.0011	0.0386
Cyathura polita	0.0091		1.3927	0.0227	0.5680
Edotea triloba (Epi.)		0.0011	0.0045		
Eteone heteropoda			0.0011		
Gemma gemma	0.0136				
Glycinde solitaria	0.0114			0.0011	0.0295
Haminoea solitaria	0.0954			0.0011	
Heteromastus filiformis	0.0409		0.0591	0.1613	0.0091
Leitoscoloplos spp.	0.1477			0.0068	
Lepidactylus dytiscus	0.4067			0.0011	
Leptocheirus plumulosus		0.0273	0.0772	0.0011	
Macoma balthica			1.1451		0.8338
Macoma mitchelli	0.2976		0.2499	0.1454	
Marenzelleria viridis			0.0011	0.0182	0.1727

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08420	08421	08422	08426	08427
Melita nitida (Epi.)			0.0011		
Micrura leidyi	0.0409				
Mulinia lateralis	0.0909	0.0204	0.0011	0.1727	0.0091
Neanthes succinea	0.0182	0.4771	0.1908		
Oligochaeta		0.0011			0.0011
Parahesionia luteola		0.0045			0.0068
Paraprionospio pinnata		0.0091			
Streblospio benedicti	0.0136				
Tellinidae		0.0136			
Tubificoides spp.	0.0159		0.0011		0.0068
Total Biomass w/ Epifauna	1.2053	0.5657	3.1444	0.5362	1.6756
Total Biomass w/o Epifauna	1.2053	0.5646	3.1388	0.5351	1.6756

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08501		08502		08503		08504		08505	
Watershed	Mainstem		Mainstem		Mainstem		Mainstem		Mainstem	
Habitat	Polyhaline Sand		High Meso Sand		High Meso Sand		High Meso Sand		Polyhaline Sand	
Date	09/05/01		09/05/01		09/05/01		09/05/01		09/05/01	
Gear	Young Grab		Young Grab		Young Grab		Young Grab		Young Grab	
Sampled Area (sq.m)	0.044		0.044		0.044		0.044		0.044	
BOTTOM ENVIRONMENT										
Depth (m)	12.0		6.0		7.0		13.0		2.0	
Salinity (ppt)	19.66		16.70		16.64		16.50		18.28	
Temperature (C)	26.12		25.95		25.97		25.75		26.30	
Dissolved Oxygen (mg/L)	2.5		7.2		7.3		6.9		3.7	
Sediment Silt-Clay (%)	2.95		2.23		3.87		2.10		0.99	
Total Carbon (%)	0.08		0.04		0.17		0.12		0.02	
BENTHIC INDEX OF BIOTIC INTEGRITY										
B-IBI Score	3.00		4.33		4.00		4.33		3.33	
Condition	Meets Goal		Meets Goal		Meets Goal		Meets Goal		Meets Goal	
# Attributes Scored	6		6		6		6		6	
	Value	Score	Value	Score	Value	Score	Value	Score	Value	Score
Shannon-Wiener Index	3.21	3	2.69	3	3.36	5	3.45	5	3.40	3
Abundance (#/m2)	1636	3	1863	5	1931	5	1749	5	2499	3
Biomass (g/m2)	2.56	3	2.51	3	0.42	1	0.34	1	2.34	3
Pollution Indicative Spp Abund (%)	4.17		0.00	5	12.94	3	0.00	5	0.91	
Pollution Indicative Spp Biom (%)	1.07	5	0.00		25.68		0.00		0.97	5
Pollution Sensitive Spp Abund (%)	45.83	3	65.85	5	43.53	5	63.64	5	54.55	5
Pollution Sensitive Spp Biom (%)	83.39		85.18		39.89		64.19		11.56	
Carnivore-Omnivore Abundance (%)	25.00		52.44	5	36.47	5	44.16	5	50.00	
Deep Deposit Feeder Abundance (%)	2.78	1	7.32		8.24		28.57		2.73	1

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08501	08502	08503	08504	08505
<i>Acteocina canaliculata</i>	318	932	500	364	727
<i>Ampelisca abdita</i>	477	23	114	136	182
<i>Ampelisca</i> spp. *		227	318		
<i>Ampelisca verrilli</i>	23	45	45		
<i>Amphiporus bioculatus</i>	23				23
<i>Apocorophium lacustre</i> (Epi.)					45
<i>Branchiostoma caribaeum</i>	159				341
<i>Crangon septemspinosa</i> (Epi.)					45
<i>Edotea triloba</i> (Epi.)				23	
Gastropoda *		23			
<i>Glycinde solitaria</i>	45	45	114	114	227
<i>Heteromastus filiformis</i>		91		45	
<i>Lepidactylus dytiscus</i>					23
<i>Leptosynapta tenuis</i>		45	23		
<i>Listriella barnardi</i>	23	23	68		
<i>Loimia medusa</i>	159	136	159	23	91
<i>Marenzelleria viridis</i>				45	
<i>Mediomastus ambiseta</i>		23		341	
<i>Mercenaria mercenaria</i>	91				
<i>Molgula manhattensis</i> (Epi.)	45			23	23
<i>Neanthes succinea</i>	23		45	68	159
Nemertinea			23		
<i>Paraprionospio pinnata</i>	68		250		
<i>Parvilucina multilineata</i>				23	
<i>Pectinaria gouldii</i>	45	23	114	68	
<i>Phoronis</i> spp.		68		114	91
<i>Podarkeopsis levifuscina</i>					45
<i>Pseudeurythoe paucibranchiata</i>					68

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	08501	08502	08503	08504	08505
<i>Ptilanthura tenuis</i>				23	
<i>Rictaxis punctostriatus</i>			23	204	
<i>Saccoglossus kowalevskii</i>		45		23	
<i>Scoloplos rubra</i>					23
<i>Spiochaetopterus costarum</i>	68	23	68	114	114
<i>Spiophanes bombyx</i>	68				114
<i>Streblospio benedicti</i>					23
<i>Stylochus ellipticus</i> (Epi.)		23			
<i>Tharyx</i> sp. A Morris	45	114	23		204
<i>Tubificoides</i> spp.			45	45	45
Total Abundance w/ Epifauna	1681	1908	1931	1795	2613
Total Abundance w/o Epifauna	1636	1863	1931	1749	2499
Number of Taxa w/ Epifauna	16	15	15	18	20
Number of Taxa w/o Epifauna	15	14	15	16	17
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08501	08502	08503	08504	08505
<i>Acteocina canaliculata</i>	0.0273	0.0011	0.0386	0.0682	0.0364
<i>Ampelisca abdita</i>	0.0477	0.0091	0.0227	0.0068	0.0250
<i>Ampelisca</i> spp. *		0.0114	0.0227		
<i>Ampelisca verrilli</i>	0.0227	0.2363	0.0159		
<i>Amphiporus bioculatus</i>	0.0091				0.0011
<i>Apocorophium lacustre</i> (Epi.)					0.0045
<i>Branchiostoma caribaeum</i>	0.2704				1.7903
<i>Crangon septemspinosa</i> (Epi.)					0.0932

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08501	08502	08503	08504	08505
<i>Edotea triloba</i> (Epi.)				0.0011	
Gastropoda *		0.0011			
<i>Glycinde solitaria</i>	0.0227	0.0045	0.0182	0.0023	0.0432
<i>Heteromastus filiformis</i>		0.0227		0.0114	
<i>Lepidactylus dytiscus</i>					0.0023
<i>Leptosynapta tenuis</i>		0.0136	0.0091		
<i>Listriella barnardi</i>	0.0045	0.0045	0.0045		
<i>Loimia medusa</i>	0.4726	2.1039	0.0909	0.0114	0.0477
<i>Marenzelleria viridis</i>				0.0409	
<i>Mediomastus ambiseta</i>		0.0023		0.0068	
<i>Mercenaria mercenaria</i>	1.5540				
<i>Molgula manhattensis</i> (Epi.)	0.0114			0.0045	0.0250
<i>Neanthes succinea</i>	0.0273		0.0364	0.0659	0.0636
Nemertinea			0.0068		
<i>Paraprionospio pinnata</i>	0.0273		0.1068		
<i>Parvilucina multilineata</i>				0.0023	
<i>Pectinaria gouldii</i>	0.0136	0.0250	0.0114	0.0114	
<i>Phoronis</i> spp.		0.0227		0.0750	0.0250
<i>Podarkeopsis levifuscina</i>					0.0204
<i>Pseudeurythoe paucibranchiata</i>					0.0523
<i>Ptilanthura tenuis</i>				0.0011	
<i>Rictaxis punctostriatus</i>			0.0068	0.0023	
<i>Saccoglossus kowalevskii</i>		0.0182		0.0182	
<i>Scoloplos rubra</i>					0.0182
<i>Spiochaetopterus costarum</i>	0.0114	0.0068	0.0182	0.0114	0.0273
<i>Spiophanes bombyx</i>	0.0454				0.0909
<i>Streblospio benedicti</i>					0.0227
<i>Stylochus ellipticus</i> (Epi.)		0.0114			

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08501	08502	08503	08504	08505
Tharyx sp. A Morris	0.0023	0.0318	0.0045		0.0523
Tubificoides spp.			0.0023	0.0011	0.0204
Total Biomass w/ Epifauna	2.5696	2.5265	0.4158	0.3419	2.4617
Total Biomass w/o Epifauna	2.5583	2.5140	0.4158	0.3363	2.3390

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08506	08507	08508	08509	08510
Watershed	Mainstem	Mainstem	Mainstem	Mainstem	Mainstem
Habitat	High Meso Mud	High Meso Sand	Polyhaline Sand	High Meso Sand	High Meso Sand
Date	09/05/01	09/05/01	09/05/01	09/05/01	09/05/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	6.0	6.0	8.0	2.0	3.0
Salinity (ppt)	16.58	16.35	20.30	15.26	13.14
Temperature (C)	26.10	25.96	26.21	24.99	25.49
Dissolved Oxygen (mg/L)	6.0	7.5	1.3	7.0	6.9
Sediment Silt-Clay (%)	49.90	2.26	2.08	9.88	39.55
Total Carbon (%)	1.95	0.05	0.04	0.13	1.26
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	1.00	4.00	2.67	3.33	4.00
Condition	Severely Degr.	Meets Goal	Marginal	Meets Goal	Meets Goal
# Attributes Scored	6	6	6	6	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	0.00 1	3.34 5	3.19 3	2.64 3	2.71 3
Abundance (#/m2)	0 1	2136 5	2681 3	2363 5	2545 5
Biomass (g/m2)	0.00 1	0.83 1	0.54 1	0.40 1	1.46 3
Pollution Indicative Spp Abund (%)	100.00	0.00 5	8.47	1.92 5	0.00 5
Pollution Indicative Spp Biom (%)	100.00 1	0.00	10.97 3	0.28	0.00
Pollution Sensitive Spp Abund (%)	0.00	40.43 5	57.63 5	16.35 3	31.25 3
Pollution Sensitive Spp Biom (%)	0.00 1	75.27	44.30	5.70	44.98
Carnivore-Omnivore Abundance (%)	0.00 1	25.53 3	43.22	20.19 3	41.07 5
Deep Deposit Feeder Abundance (%)	0.00	29.79	6.78 1	66.35	44.64

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08506	08507	08508	08509	08510
<i>Acanthohaustorius millsi</i>		23			
<i>Acteocina canaliculata</i>	409		954	295	386
<i>Ampelisca abdita</i>	477		341	182	45
<i>Ampelisca vadorum</i>			23		
<i>Amphiporus bioculatus</i>		23			23
<i>Carinoma tremaphoros</i>					45
<i>Edotea triloba</i> (Epi.)				23	
<i>Glycinde solitaria</i>		91	114	68	273
<i>Heteromastus filiformis</i>	182		45	432	1022
<i>Leitoscoloplos</i> spp.				45	
<i>Leptosynapta tenuis</i>		68			
<i>Leucon americanus</i>				23	45
<i>Listriella barnardi</i>			45	23	
<i>Listriella clymenellae</i>		114			
<i>Loimia medusa</i>		91	91		
<i>Macoma balthica</i>					136
<i>Macoma mitchelli</i>				23	136
Maldanidae				23	
<i>Mediomastus ambiseta</i>		91			
<i>Mulinia lateralis</i>				45	
<i>Mya arenaria</i>				23	
<i>Neanthes succinea</i>		23	23	114	295
Nemertinea			23		
<i>Oxyurostylis smithi</i>		68			
<i>Parahezione luteola</i>					23
<i>Paraprionospio pinnata</i>			227		
<i>Parvilucina multilineata</i>		23	23		
<i>Pectinaria gouldii</i>			114	45	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	08506	08507	08508	08509	08510
Phoronis spp.		23	68		
Ptilanthura tenuis			45		
Saccoglossus kowalevskii			45		
Spiochaetopterus costarum			318		
Spiophanes bombyx		45			
Stylochus ellipticus (Epi.)			23		
Tellinidae		23			
Tharyx sp. A Morris			159		
Tubificoides spp.		364	23	1022	114
Total Abundance w/ Epifauna	0	2136	2704	2386	2545
Total Abundance w/o Epifauna		2136	2681	2363	2545
Number of Taxa w/ Epifauna	0	17	19	15	12
Number of Taxa w/o Epifauna	0	17	18	14	12
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08506	08507	08508	08509	08510
Acanthohaustorius millsii		0.0091			
Acteocina canaliculata		0.0318	0.0863	0.0114	0.0091
Ampelisca abdita		0.0432	0.0364	0.0023	0.0011
Ampelisca vadorum			0.0068		
Amphiporus bioculatus		0.0068			0.0011
Carinoma tremaphoros					0.0818
Edotea triloba (Epi.)				0.0023	
Glycinde solitaria		0.0250	0.0364	0.0045	0.0818
Heteromastus filiformis		0.0432	0.0227	0.0954	0.1204

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08506	08507	08508	08509	08510
Leitoscoloplos spp.				0.0750	
Leptosynapta tenuis		0.0295			
Leucon americanus				0.0011	0.0011
Listriella barnardi			0.0114	0.0023	
Listriella clymenellae		0.0250			
Loimia medusa		0.4658	0.0454		
Macoma balthica					0.5657
Macoma mitchelli				0.0011	0.0068
Maldanidae				0.0932	
Mediomastus ambiseta		0.0045			
Mulinia lateralis				0.0011	
Mya arenaria				0.0068	
Neanthes succinea		0.0136	0.0068	0.0909	0.5884
Nemertinea			0.0091		
Oxyurostylis smithi		0.0159			
Parahesion luteola					0.0011
Paraprionospio pinnata			0.0591		
Parvilucina multilineata		0.0250	0.0591		
Pectinaria gouldii			0.0068	0.0023	
Phoronis spp.		0.0159	0.0341		
Ptilanthura tenuis			0.0068		
Saccoglossus kowalevskii			0.0227		
Spiochaetopterus costarum			0.0364		
Spiophanes bombyx		0.0545			
Stylochus ellipticus (Epi.)			0.0068		
Tellinidae		0.0136			
Tharyx sp. A Morris			0.0454		

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08506	08507	08508	08509	08510
Tubificoides spp.		0.0045	0.0068	0.0114	0.0011
Total Biomass w/ Epifauna	0.0000	0.8270	0.5453	0.4010	1.4598
Total Biomass w/o Epifauna		0.8270	0.5385	0.3987	1.4598

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08511	08512	08513	08514	08515
Watershed	Mainstem	Mainstem	Mainstem	Mainstem	Mainstem
Habitat	High Meso Mud	High Meso Sand	High Meso Mud	High Meso Sand	High Meso Mud
Date	09/07/01	09/07/01	09/04/01	09/04/01	09/04/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	8.0	8.0	2.0	3.0	11.0
Salinity (ppt)	16.15	16.09	14.49	14.55	17.62
Temperature (C)	25.80	25.86	25.30	25.22	25.99
Dissolved Oxygen (mg/L)	5.2	5.7	7.6	8.3	0.6
Sediment Silt-Clay (%)	63.51	13.10	63.85	10.90	75.25
Total Carbon (%)	1.71	0.61	1.67	0.74	4.09
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.33	4.33	2.67	3.00	1.00
Condition	Meets Goal	Meets Goal	Marginal	Meets Goal	Severely Degr.
# Attributes Scored	6	6	6	6	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.81 3	3.25 5	2.84 3	2.99 3	0.00 1
Abundance (#/m2)	727 1	1681 5	932 1	2227 5	23 1
Biomass (g/m2)	0.81 3	1.61 3	0.32 1	0.75 1	0.00 1
Pollution Indicative Spp Abund (%)	21.88	12.16 3	24.39	27.55 1	100.00
Pollution Indicative Spp Biom (%)	0.28 5	16.74	12.06 3	22.36	100.00 1
Pollution Sensitive Spp Abund (%)	37.50	40.54 5	21.95	39.80 3	0.00
Pollution Sensitive Spp Biom (%)	47.04 3	44.63	60.28 3	6.01	0.00 1
Carnivore-Omnivore Abundance (%)	50.00 5	58.11 5	39.02 5	42.86 5	0.00 1
Deep Deposit Feeder Abundance (%)	28.13	18.92	21.95	15.31	0.00

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08511	08512	08513	08514	08515
<i>Acteocina canaliculata</i>	91	409	23	545	
<i>Ampelisca abdita</i>		114		23	
<i>Amphiporus bioculatus</i>		23			
<i>Carinoma tremaphoros</i>				23	
<i>Cyathura polita</i>			91	23	
<i>Diadumene leucolena</i> (Epi.)		23			
<i>Gemma gemma</i>				227	
<i>Glycinde solitaria</i>	68	227	91	182	
<i>Haminoea solitaria</i>			23	23	
<i>Heteromastus filiformis</i>		159	204	182	
<i>Leitoscoloplos robustus</i>	45				
<i>Leitoscoloplos</i> spp.		45			
<i>Loimia medusa</i>		23			
<i>Macoma mitchelli</i>			136		
<i>Mediomastus ambiseta</i>	114			136	
<i>Mulinia lateralis</i>		68	227	613	
Mysidae (Epi.)				23	
<i>Neanthes succinea</i>	182	295	45	136	
Nemertinea		23			
<i>Parahesion luteola</i>	23		91	23	
<i>Paraprionospio pinnata</i>	159	136			
<i>Pectinaria gouldii</i>	23	68		23	
<i>Saccoglossus kowalevskii</i>		23			
<i>Spiochaetopterus costarum</i>		23			
<i>Streblospio benedicti</i>					23
Tellinidae				68	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	08511	08512	08513	08514	08515
Tubificoides spp.	23	45			
Total Abundance w/ Epifauna	727	1704	932	2249	23
Total Abundance w/o Epifauna	727	1681	932	2227	23
Number of Taxa w/ Epifauna	9	16	9	15	1
Number of Taxa w/o Epifauna	9	15	9	14	1
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08511	08512	08513	08514	08515
Acteocina canaliculata	0.0011	0.0011	0.0068	0.0091	
Ampelisca abdita		0.0011		0.0068	
Amphiporus bioculatus		0.0011			
Carinoma tremaphoros				0.0432	
Cyathura polita			0.1545	0.0011	
Diadumene leucolena (Epi.)		0.0011			
Gemma gemma				0.0295	
Glycinde solitaria	0.3772	0.0068	0.0318	0.0327	
Haminoea solitaria			0.0068	0.0011	
Heteromastus filiformis		0.0432	0.0318	0.1545	
Leitoscoloplos robustus	0.0091				
Leitoscoloplos spp.		0.0863			
Loimia medusa		0.7089			
Macoma mitchelli			0.0159		
Mediomastus ambiseta	0.0011			0.0023	
Mulinia lateralis		0.2681	0.0386	0.1681	
Mysidae (Epi.)				0.0011	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08511	08512	08513	08514	08515
Neanthes succinea	0.0011	0.3658	0.0273	0.2976	
Nemertinea		0.0136			
Parahelesione luteola	0.0023		0.0068	0.0011	
Paraprionospio pinnata	0.0023	0.0011			
Pectinaria gouldii	0.4112	0.0932		0.0023	
Saccoglossus kowalevskii		0.0159			
Spiochaetopterus costarum		0.0011			
Streblospio benedicti					0.0023
Tellinidae				0.0023	
Tubificoides spp.	0.0011	0.0011			
Total Biomass w/ Epifauna	0.8066	1.6097	0.3204	0.7529	0.0023
Total Biomass w/o Epifauna	0.8066	1.6086	0.3204	0.7518	0.0023

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08516	08517	08518	08519	08520
Watershed	Mainstem	Mainstem	Mainstem	Mainstem	Mainstem
Habitat	High Meso Mud	High Meso Sand	High Meso Sand	High Meso Sand	High Meso Mud
Date	09/04/01	09/04/01	09/04/01	09/04/01	09/04/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	10.0	5.0	7.0	2.0	3.0
Salinity (ppt)	16.04	14.81	14.93	14.92	12.37
Temperature (C)	25.79	25.90	25.87	26.09	26.05
Dissolved Oxygen (mg/L)	3.7	7.7	7.0	7.7	7.2
Sediment Silt-Clay (%)	86.29	17.04	3.18	6.57	95.25
Total Carbon (%)	1.86	0.50	0.03	0.14	1.43
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	2.67	3.33	3.67	2.00	2.67
Condition	Marginal	Meets Goal	Meets Goal	Severely Degr.	Marginal
# Attributes Scored	6	6	6	6	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.84 3	2.97 3	2.10 1	0.10 1	2.69 3
Abundance (#/m2)	772 1	3317 3	3067 3	446107 1	977 1
Biomass (g/m2)	0.65 3	4.28 5	1.07 3	25.91 3	0.46 1
Pollution Indicative Spp Abund (%)	44.12	27.40 1	0.74 5	0.06 5	23.26
Pollution Indicative Spp Biom (%)	22.82 3	0.77	18.26	1.03	8.89 3
Pollution Sensitive Spp Abund (%)	8.82	16.44 3	77.04 5	1.06 1	6.98
Pollution Sensitive Spp Biom (%)	0.35 1	15.24	59.66	2.11	30.12 3
Carnivore-Omnivore Abundance (%)	41.18 5	39.73 5	78.52 5	1.12 1	32.56 5
Deep Deposit Feeder Abundance (%)	8.82	19.18	2.96	0.01	2.33

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08516	08517	08518	08519	08520
Acteocina canaliculata	68		1954	4658	
Americamysis bigelowi (Epi.)	23				
Ampelisca abdita			114		
Amphiporus bioculatus					23
Carinoma tremaphoros		23			45
Coelotanypus spp.					68
Cyathura polita					68
Eteone heteropoda				68	
Gemma gemma	23	182		440791	
Glycinde solitaria		432	204	68	
Haminoea solitaria			23	136	45
Heteromastus filiformis	45	182	91	45	23
Hobsonia florida					23
Leitoscoloplos robustus		136			
Macoma balthica		114			
Macoma mitchelli	23	159		91	454
Marenzelleria viridis			68		
Micrura leidyi				23	
Mulinia lateralis	45	23	23	136	91
Neanthes succinea	91	818	45	45	23
Nemertinea			23		
Odostomia engonia (Epi.)	23				
Parahelesione luteola	159	45			45
Paraprionospio pinnata	250	23			
Pectinaria gouldii	23				
Phoronis spp.			114		
Rictaxis punctostriatus			159		
Sayella chesapeakea (Epi.)				23	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	08516	08517	08518	08519	08520
<i>Spiochaetopterus costarum</i>			23		
<i>Streblospio benedicti</i>	45	863		45	68
<i>Stylochus ellipticus</i> (Epi.)			45	23	
<i>Tharyx</i> sp. A Morris			227		
<i>Tubificoides</i> spp.		318			
Total Abundance w/ Epifauna	818	3317	3113	446153	977
Total Abundance w/o Epifauna	772	3317	3067	446107	977
Number of Taxa w/ Epifauna	12	13	14	13	12
Number of Taxa w/o Epifauna	10	13	13	11	12
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08516	08517	08518	08519	08520
<i>Acteocina canaliculata</i>	0.0023		0.3204	0.5453	
<i>Americamysis bigelowi</i> (Epi.)	0.0011				
<i>Ampelisca abdita</i>			0.0068		
<i>Amphiporus bioculatus</i>					0.0011
<i>Carinoma tremaphoros</i>		0.0182			0.0318
<i>Coelotanypus</i> spp.					0.0318
<i>Cyathura polita</i>					0.1386
<i>Eteone heteropoda</i>				0.0011	
<i>Gemma gemma</i>	0.0011	0.0295		24.9716	
<i>Glycinde solitaria</i>		0.1454	0.0182	0.0011	
<i>Haminoea solitaria</i>			0.0068	0.0182	0.0023
<i>Heteromastus filiformis</i>	0.0011	0.2090	0.0318	0.0432	0.0068
<i>Hobsonia florida</i>					0.0045

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08516	08517	08518	08519	08520
Leitoscoloplos spp.		0.6657			
Macoma balthica		0.5067			
Macoma mitchelli	0.1091	0.3658		0.0011	0.1954
Marenzelleria viridis			0.0409		
Micrura leidyi				0.0568	
Mulinia lateralis	0.0636	0.0045	0.1954	0.2658	0.0045
Neanthes succinea	0.3772	2.2993	0.0114	0.0011	0.0341
Nemertinea			0.0591		
Odostomia engonia (Epi.)	0.0023				
Parahesion luteola	0.0114	0.0045			0.0045
Paraprionospio pinnata	0.0841	0.0011			
Pectinaria gouldii	0.0011				
Phoronis spp.			0.2317		
Rictaxis punctostriatus			0.0704		
Sayella chesapeakea (Epi.)				0.0011	
Spiochaetopterus costarum			0.0273		
Streblospio benedicti	0.0011	0.0273		0.0011	0.0045
Stylochus ellipticus (Epi.)			0.0114	0.0011	
Tharyx sp. A Morris			0.0500		
Tubificoides spp.		0.0011			
Total Biomass w/ Epifauna	0.6555	4.2782	1.0815	25.9088	0.4601
Total Biomass w/o Epifauna	0.6521	4.2782	1.0701	25.9065	0.4601

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08521	08522	08523	08524	08525
Watershed	Mainstem	Mainstem	Mainstem	Mainstem	Mainstem
Habitat	High Meso Sand	High Meso Sand	High Meso Mud	High Meso Mud	High Meso Sand
Date	09/04/01	09/10/01	09/10/01	09/12/01	09/12/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	4.0	2.0	9.0	5.0	3.0
Salinity (ppt)	14.85	14.99	14.24	14.64	14.60
Temperature (C)	25.76	26.18	25.54	25.19	25.32
Dissolved Oxygen (mg/L)	6.6	7.8	7.1	5.6	4.5
Sediment Silt-Clay (%)	5.44	1.70	86.69	53.34	6.07
Total Carbon (%)	0.09	0.07	3.20	1.03	0.06
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	2.00	2.33	1.00	4.00	2.00
Condition	Severely Degr.	Degraded	Severely Degr.	Meets Goal	Severely Degr.
# Attributes Scored	6	6	6	6	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	0.05 1	0.26 1	0.00 1	2.69 3	2.87 3
Abundance (#/m2)	296360 1	123392 1	0 1	1681 5	1181 3
Biomass (g/m2)	44.22 3	13.03 5	0.00 1	2.25 5	0.82 1
Pollution Indicative Spp Abund (%)	0.08 5	0.88 5	100.00	12.16	19.23 3
Pollution Indicative Spp Biom (%)	0.94	8.30	100.00 1	0.86 5	58.09
Pollution Sensitive Spp Abund (%)	0.18 1	0.90 1	0.00	14.86	9.62 1
Pollution Sensitive Spp Biom (%)	0.07	0.76	0.00 1	8.28 1	0.69
Carnivore-Omnivore Abundance (%)	0.28 1	1.05 1	0.00 1	43.24 5	15.38 1
Deep Deposit Feeder Abundance (%)	0.04	0.06	0.00	33.78	21.15

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08521	08522	08523	08524	08525
<i>Acteocina canaliculata</i>	409	1091			91
<i>Americamysis almyra</i> (Epi.)				45	
<i>Ameroculodes species complex</i>		23			
<i>Balanus improvisus</i> (Epi.)	114				
<i>Carinoma tremaphoros</i>				45	23
<i>Edotea triloba</i> (Epi.)		23			
<i>Eteone foliosa</i>					23
<i>Eteone heteropoda</i>	91				
<i>Gemma gemma</i>	295201	119825			114
<i>Glycinde solitaria</i>	45	23		159	23
<i>Haminoea solitaria</i>		68			
<i>Heteromastus filiformis</i>	68	68		545	227
<i>Lepidactylus dytiscus</i>		523			91
<i>Macoma balthica</i>				91	
<i>Macoma mitchelli</i>		568		91	318
<i>Micrura leidyi</i>	23	68			
<i>Mulinia lateralis</i>	136	1091		159	227
<i>Mya arenaria</i>	68				
<i>Neanthes succinea</i>	273	23		454	
<i>Parahesionia luteola</i>				68	
<i>Pectinaria gouldii</i>				23	
<i>Rictaxis punctostriatus</i>		23			23
<i>Streblospio benedicti</i>				45	
<i>Stylochus ellipticus</i> (Epi.)	45	23			

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	08521	08522	08523	08524	08525
Tubificoides spp.	45				23
Total Abundance w/ Epifauna	296519	123438	0	1727	1181
Total Abundance w/o Epifauna	296360	123392		1681	1181
Number of Taxa w/ Epifauna	12	14	0	11	11
Number of Taxa w/o Epifauna	10	12	0	10	11
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08521	08522	08523	08524	08525
Acteocina canaliculata	0.0182	0.0977			0.0045
Americamysis almyra (Epi.)				0.0023	
Ameroculodes species complex		0.0182			
Balanus improvisus (Epi.)	0.0011				
Carinoma tremaphoros				0.0136	0.0023
Edotea triloba (Epi.)		0.0114			
Eteone foliosa					0.0295
Eteone heteropoda	0.0023				
Gemma gemma	43.4202	11.1510			0.0011
Glycinde solitaria	0.0011	0.0011		0.0341	0.0011
Haminoea solitaria		0.0341			
Heteromastus filiformis	0.2045	0.0182		0.1272	0.1022
Lepidactylus dytiscus		0.2022			0.0227
Macoma balthica				0.1522	
Macoma mitchelli		0.0454		0.0011	0.1772
Micrura leidyi	0.1022	0.3703			
Mulinia lateralis	0.4135	1.0815		0.0182	0.4771

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08521	08522	08523	08524	08525
Mya arenaria	0.0136				
Neanthes succinea	0.0432	0.0136		1.8971	
Parahelesione luteola				0.0011	
Pectinaria gouldii				0.0045	
Rictaxis punctostriatus		0.0011			0.0011
Streblospio benedicti				0.0011	
Stylochus ellipticus (Epi.)	0.0204	0.0011			
Tubificoides spp.	0.0011				0.0023
Total Biomass w/ Epifauna	44.2415	13.0470	0.0000	2.2527	0.8213
Total Biomass w/o Epifauna	44.2199	13.0345		2.2504	0.8213

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08301		08302		08303		08304		08305	
Watershed	Western Tribs		Western Tribs		Western Tribs		Western Tribs		Western Tribs	
Habitat	High Meso Sand		High Meso Mud		High Meso Mud		High Meso Mud		High Meso Mud	
Date	09/12/01		09/12/01		09/12/01		09/12/01		09/12/01	
Gear	Young Grab		Young Grab		Young Grab		Young Grab		Young Grab	
Sampled Area (sq.m)	0.044		0.044		0.044		0.044		0.044	
BOTTOM ENVIRONMENT										
Depth (m)	3.0		3.0		7.0		7.0		6.0	
Salinity (ppt)	13.66		13.71		13.89		14.02		13.31	
Temperature (C)	25.19		25.86		25.62		25.76		25.81	
Dissolved Oxygen (mg/L)	6.3		2.8		3.5		3.4		4.2	
Sediment Silt-Clay (%)	13.75		81.47		83.87		96.25		85.79	
Total Carbon (%)	0.18		3.70		3.04		3.42		3.69	
BENTHIC INDEX OF BIOTIC INTEGRITY										
B-IBI Score	2.00		3.00		3.67		3.67		2.67	
Condition	Severely Degr.		Meets Goal		Meets Goal		Meets Goal		Marginal	
# Attributes Scored	6		6		6		6		6	
	Value	Score	Value	Score	Value	Score	Value	Score	Value	Score
Shannon-Wiener Index	2.25	1	2.32	3	2.56	3	2.39	3	2.12	3
Abundance (#/m2)	2454	5	477	1	1500	3	1045	3	250	1
Biomass (g/m2)	0.85	1	1.55	3	1.96	3	3.80	5	0.55	3
Pollution Indicative Spp Abund (%)	11.11	3	4.76		1.52		8.70		27.27	
Pollution Indicative Spp Biom (%)	32.66		0.58	5	0.06	5	0.03	5	5.83	3
Pollution Sensitive Spp Abund (%)	6.48	1	28.57		10.61		10.87		27.27	
Pollution Sensitive Spp Biom (%)	13.65		26.46	1	32.52	3	77.97	5	82.92	3
Carnivore-Omnivore Abundance (%)	12.96	1	47.62	5	33.33	5	8.70	1	18.18	3
Deep Deposit Feeder Abundance (%)	25.93		9.52		18.18		21.74		36.36	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08301	08302	08303	08304	08305
<i>Amphiporus bioculatus</i>			23		
<i>Carinoma tremaphoros</i>	23	45	45		
<i>Cyclaspis varians</i>	23				
<i>Eteone heteropoda</i>					23
<i>Glycinde solitaria</i>	91		23		
<i>Heteromastus filiformis</i>	636	45	182	68	91
<i>Leptocheirus plumulosus</i>	23	23	500	500	
<i>Macoma balthica</i>	23	136	136	114	68
<i>Macoma mitchelli</i>	1113	23	68	23	
<i>Marenzelleria viridis</i>	45				
<i>Micrura leidyi</i>				23	
<i>Mulinia lateralis</i>	250				
<i>Neanthes succinea</i>	204	182	409	23	23
<i>Parahesion luteola</i>				45	
<i>Streblospio benedicti</i>	23	23	23	91	45
<i>Tubificoides</i> spp.			91	159	
Total Abundance w/ Epifauna	2454	477	1500	1045	250
Total Abundance w/o Epifauna	2454	477	1500	1045	250
Number of Taxa w/ Epifauna	11	7	10	9	5
Number of Taxa w/o Epifauna	11	7	10	9	5
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08301	08302	08303	08304	08305
<i>Amphiporus bioculatus</i>			0.0011		
<i>Carinoma tremaphoros</i>	0.0011	0.0273	0.0364		

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08301	08302	08303	08304	08305
Cyclaspis varians	0.0011				
Eteone heteropoda					0.0182
Glycinde solitaria	0.0295		0.0159		
Heteromastus filiformis	0.1931	0.0341	0.0386	0.1409	0.0318
Leptocheirus plumulosus	0.0011	0.0114	0.2386	0.1295	
Macoma balthica	0.0727	0.4112	0.6225	2.9627	0.4521
Macoma mitchelli	0.1045	0.1227	0.1318	0.1068	
Marenzelleria viridis	0.0136				
Micrura leidyi				0.0523	
Mulinia lateralis	0.2749				
Neanthes succinea	0.1545	0.9383	0.8702	0.4044	0.0295
Parahesionia luteola				0.0011	
Streblospio benedicti	0.0023	0.0091	0.0011	0.0011	0.0136
Tubificoides spp.			0.0068	0.0011	
Total Biomass w/ Epifauna	0.8486	1.5540	1.9630	3.7999	0.5453
Total Biomass w/o Epifauna	0.8486	1.5540	1.9630	3.7999	0.5453

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08306	08307	08308	08309	08310
Watershed	Western Tribs	Western Tribs	Western Tribs	Western Tribs	Western Tribs
Habitat	High Meso Mud	High Meso Mud	High Meso Mud	Low Mesohaline	High Meso Mud
Date	09/12/01	09/12/01	09/12/01	09/12/01	09/12/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	4.0	4.0	5.0	2.0	5.0
Salinity (ppt)	12.45	12.52	12.23	11.10	12.95
Temperature (C)	25.71	26.02	25.53	25.45	25.47
Dissolved Oxygen (mg/L)	6.2	0.7	6.7	7.5	2.2
Sediment Silt-Clay (%)	85.50	78.83	69.74	7.10	84.58
Total Carbon (%)	3.31	5.12	1.99	0.12	4.78
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.33	2.67	3.67	3.00	1.67
Condition	Meets Goal	Marginal	Meets Goal	Meets Goal	Severely Degr.
# Attributes Scored	6	6	6	5	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.57 3	2.85 3	2.04 3	2.52 5	1.68 1
Abundance (#/m2)	1000 1	227 1	7248 1	1045 3	250 1
Biomass (g/m2)	0.52 3	0.10 1	4.80 5	0.24 1	0.03 1
Pollution Indicative Spp Abund (%)	68.18	0.00	4.08	4.35 5	90.91
Pollution Indicative Spp Biom (%)	0.44 5	0.00 5	0.24 5	0.93	72.00 1
Pollution Sensitive Spp Abund (%)	6.82	20.00	7.52	19.57	0.00
Pollution Sensitive Spp Biom (%)	81.50 3	3.45 1	69.60 5	37.85 1	0.00 1
Carnivore-Omnivore Abundance (%)	56.82 5	50.00 5	11.29 3	26.09	45.45 5
Deep Deposit Feeder Abundance (%)	25.00	0.00	55.49	19.57	9.09

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08306	08307	08308	08309	08310
Acteocina canaliculata		23			
Ampelisca verrilli		68			
Chironomidae pupae *	68				
Chironomus spp.	432				91
Cyathura polita				136	
Edwardsia elegans				68	
Eteone heteropoda	45		23	45	23
Glycinde solitaria		23	23		
Haminoea solitaria		23			
Heteromastus filiformis	23		159	204	
Imm. Tubificid w/o Cap. Chaete	91				
Laeonereis culveri				23	
Lepidactylus dytiscus				23	
Leptocheirus plumulosus			1568	45	
Listriella barnardi		23			
Macoma balthica	68		523		
Macoma mitchelli			45	432	
Marenzelleria viridis				68	
Neanthes succinea	23	23	682		
Nemertinea			68		
Oxyurostylis smithi		23			
Parahesion luteola			23		
Rictaxis punctostriatus		23			
Streblospio benedicti	114		273		114

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	08306	08307	08308	08309	08310
Tubificoides spp.	136		3862		23
Total Abundance w/ Epifauna	1000	227	7248	1045	250
Total Abundance w/o Epifauna	1000	227	7248	1045	250
Number of Taxa w/ Epifauna	8	8	11	9	4
Number of Taxa w/o Epifauna	8	8	11	9	4
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08306	08307	08308	08309	08310
Acteocina canaliculata		0.0023			
Ampelisca verrilli		0.0023			
Chironomidae	0.0011				0.0011
Chironomidae pupae *	0.0011				
Cyathura polita				0.0909	
Edwardsia elegans				0.0477	
Eteone heteropoda	0.0011		0.0068	0.0023	0.0091
Glycinde solitaria		0.0011	0.0023		
Haminoea solitaria		0.0011			
Heteromastus filiformis	0.0409		0.0886	0.0886	
Laeonereis culveri				0.0091	
Lepidactylus dytiscus				0.0011	
Leptocheirus plumulosus			0.3612	0.0011	
Listriella barnardi		0.0011			
Macoma balthica	0.4203		3.3353		
Macoma mitchelli			0.1522	0.0011	
Marenzelleria viridis				0.0011	

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08306	08307	08308	08309	08310
Neanthes succinea	0.0477	0.0886	0.7975		
Nemertinea			0.0114		
Oligochaeta	0.0011				
Oxyurostylis smithi		0.0011			
Paraehesione luteola			0.0011		
Rictaxis punctostriatus		0.0011			
Streblospio benedicti	0.0011		0.0045		0.0114
Tubificoides spp.	0.0011		0.0341		0.0068
Total Biomass w/ Epifauna	0.5157	0.0988	4.7951	0.2431	0.0284
Total Biomass w/o Epifauna	0.5157	0.0988	4.7951	0.2431	0.0284

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08311	08312	08313	08314	08315
Watershed	Western Tribs	Western Tribs	Western Tribs	Western Tribs	Western Tribs
Habitat	Low Mesohaline	Low Mesohaline	High Meso Mud	Low Mesohaline	Low Mesohaline
Date	09/12/01	09/12/01	09/12/01	09/11/01	09/11/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	2.0	2.0	4.0	3.0	6.0
Salinity (ppt)	11.74	10.46	12.28	11.14	11.66
Temperature (C)	25.50	26.38	25.65	24.73	25.47
Dissolved Oxygen (mg/L)	4.4	1.3	1.8	6.6	2.8
Sediment Silt-Clay (%)	82.74	76.17	86.52	7.23	74.30
Total Carbon (%)	4.04	5.61	3.99	0.16	3.09
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.40	1.00	3.33	3.40	3.40
Condition	Meets Goal	Severely Degr.	Meets Goal	Meets Goal	Meets Goal
# Attributes Scored	5	5	6	5	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	1.18 1	0.00 1	1.30 1	2.66 5	1.92 3
Abundance (#/m2)	2545 3	0 1	1091 3	4135 3	3931 3
Biomass (g/m2)	3.14 3	0.00 1	8.72 5	2.60 3	3.40 3
Pollution Indicative Spp Abund (%)	5.36 5	100.00 1	2.08	10.44 3	2.89 5
Pollution Indicative Spp Biom (%)	0.22	100.00	0.00 5	4.89	0.37
Pollution Sensitive Spp Abund (%)	13.39	0.00	31.25	12.64	8.67
Pollution Sensitive Spp Biom (%)	87.23 5	0.00 1	99.67 5	46.55 3	42.66 3
Carnivore-Omnivore Abundance (%)	6.25	0.00	4.17 1	10.99	39.88
Deep Deposit Feeder Abundance (%)	78.57	0.00	64.58	9.89	5.20

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08311	08312	08313	08314	08315
Balanus improvisus (Epi.)				23	
Carinoma tremaphoros	23		23	23	23
Chironomus spp.	114		23		
Cyathura polita				114	
Edotea triloba (Epi.)				91	
Eteone heteropoda				136	91
Geukensia demissa (Epi.)				45	
Glycinde solitaria					23
Heteromastus filiformis	23		23	159	
Leptocheirus plumulosus				659	1818
Leucon americanus	23				
Macoma balthica	341		341	136	318
Macoma mitchelli				1908	
Marenzelleria viridis				273	
Mulinia lateralis				91	
Mysidae (Epi.)					23
Neanthes succinea	23			182	1363
Parahesion luteola					68
Rhithropanopeus harrisi (Epi.)				23	
Streblospio benedicti	23			204	23
Tubificoides spp.	1977		682	250	204
Total Abundance w/ Epifauna	2545	0	1091	4317	3953
Total Abundance w/o Epifauna	2545		1091	4135	3931
Number of Taxa w/ Epifauna	8	0	5	16	10
Number of Taxa w/o Epifauna	8	0	5	12	9

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)					
Site	08311	08312	08313	08314	08315
Balanus improvisus (Epi.)				0.1045	
Carinoma tremaphoros	0.0091		0.0045	0.0045	0.0068
Chironomidae	0.0011		0.0011		
Cyathura polita				0.0909	
Edotea triloba (Epi.)				0.0091	
Eteone heteropoda				0.0227	0.0114
Geukensia demissa (Epi.)				0.0045	
Glycinde solitaria					0.0091
Heteromastus filiformis	0.0704		0.0136	0.0727	
Leptocheirus plumulosus				0.1340	0.3340
Leucon americanus	0.0045				
Macoma balthica	2.7400		8.6881	0.9247	1.4404
Macoma mitchelli				0.3317	
Marenzelleria viridis				0.1954	
Mulinia lateralis				0.1000	
Mysidae (Epi.)					0.0045
Neanthes succinea	0.2817			0.7180	1.5881
Parahesion luteola					0.0045
Rhithropanopeus harrisi (Epi.)				0.0750	
Streblospio benedicti	0.0068			0.0045	0.0011
Tubificoides spp.	0.0273		0.0091	0.0023	0.0023
Total Biomass w/ Epifauna	3.1410	0.0000	8.7165	2.7946	3.4023
Total Biomass w/o Epifauna	3.1410		8.7165	2.6014	3.3978

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08316	08317	08318	08319	08320
Watershed	Western Tribs	Western Tribs	Western Tribs	Western Tribs	Western Tribs
Habitat	Low Mesohaline	High Meso Mud	Low Mesohaline	Low Mesohaline	Low Mesohaline
Date	09/11/01	09/11/01	09/11/01	09/11/01	09/11/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	4.0	16.0	6.0	3.0	2.0
Salinity (ppt)	11.10	14.83	11.56	11.20	11.15
Temperature (C)	25.73	25.58	25.70	26.27	26.28
Dissolved Oxygen (mg/L)	5.4	0.7	4.3	2.0	1.8
Sediment Silt-Clay (%)	23.24	99.39	87.44	48.82	65.73
Total Carbon (%)	1.24	3.70	3.71	4.28	4.85
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.80	1.00	3.40	3.00	3.40
Condition	Meets Goal	Severely Degr.	Meets Goal	Meets Goal	Meets Goal
# Attributes Scored	5	6	5	5	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.57 5	0.00 1	1.97 3	2.31 3	1.86 3
Abundance (#/m2)	4839 3	0 1	1022 3	2749 3	2658 3
Biomass (g/m2)	3.55 3	0.00 1	4.72 3	13.80 3	5.67 5
Pollution Indicative Spp Abund (%)	1.41 5	100.00	8.89 5	38.84 1	15.38 3
Pollution Indicative Spp Biom (%)	0.06	100.00 1	0.05	0.22	0.34
Pollution Sensitive Spp Abund (%)	13.15	0.00	64.44	30.58	7.69
Pollution Sensitive Spp Biom (%)	62.31 3	0.00 1	78.86 3	96.89 5	67.68 3
Carnivore-Omnivore Abundance (%)	14.55	0.00 1	17.78	14.05	10.26
Deep Deposit Feeder Abundance (%)	19.72	0.00	0.00	17.36	64.10

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08316	08317	08318	08319	08320
Americamysis bigelowi (Epi.)			23		
Amphiporus bioculatus	23				
Carinoma tremaphoros	114			45	
Chironomus spp.				23	
Coelotanypus spp.					23
Edwardsia elegans				45	45
Eteone heteropoda	45			68	
Glycinde solitaria	45				
Heteromastus filiformis	932				45
Hobsonia florida				45	
Leptocheirus plumulosus	1999		68	23	45
Macoma balthica	295		545	841	204
Macoma mitchelli	568		23		45
Marenzelleria viridis	227		114		
Mya arenaria	23				
Mytilopsis leucophaeata (Epi.)				23	
Neanthes succinea	477		182	204	204
Rangia cuneata	45				
Streblospio benedicti	23		91	977	386
Tubificoides spp.	23			477	1659
Total Abundance w/ Epifauna	4839	0	1045	2772	2658
Total Abundance w/o Epifauna	4839		1022	2749	2658
Number of Taxa w/ Epifauna	14	0	7	11	9
Number of Taxa w/o Epifauna	14	0	6	10	9

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)					
Site	08316	08317	08318	08319	08320
Americamysis bigelowi (Epi.)			0.0011		
Amphiporus bioculatus	0.0011				
Carinoma tremaphoros	0.0011			0.0023	
Chironomidae				0.0011	
Coelotanypus spp.					0.0011
Edwardsia elegans				0.0114	0.0045
Eteone heteropoda	0.0011			0.0011	
Glycinde solitaria	0.0011				
Heteromastus filiformis	0.6521				0.0682
Hobsonia florida				0.0045	
Leptocheirus plumulosus	0.0011		0.0182	0.0023	0.0023
Macoma balthica	0.6793		3.5443	13.3730	3.8374
Macoma mitchelli	0.0011		0.1363		0.2522
Marenzelleria viridis	0.1749		0.1772		
Mya arenaria	0.9292				
Mytilopsis leucophaeata (Epi.)				0.0500	
Neanthes succinea	0.6793		0.8406	0.3635	1.4723
Rangia cuneata	0.4294				
Streblospio benedicti	0.0011		0.0023	0.0295	0.0182
Tubificoides spp.	0.0011			0.0136	0.0136
Total Biomass w/ Epifauna	3.5534	0.0000	4.7201	13.8524	5.6698
Total Biomass w/o Epifauna	3.5534		4.7189	13.8024	5.6698

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08321	
Watershed	Western Tribs	
Habitat	Low Mesohaline	
Date	09/21/01	
Gear	Young Grab	
Sampled Area (sq.m)	0.044	
BOTTOM ENVIRONMENT		
Depth (m)	2.5	
Salinity (ppt)	6.26	
Temperature (C)	22.30	
Dissolved Oxygen (mg/L)	3.9	
Sediment Silt-Clay (%)	90.93	
Total Carbon (%)	4.96	
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score	1.40	
Condition	Severely Degr.	
# Attributes Scored	5	
	Value	Score
Shannon-Wiener Index	1.69	1
Abundance (#/m2)	34012	1
Biomass (g/m2)	4.75	3
Pollution Indicative Spp Abund (%)	94.46	1
Pollution Indicative Spp Biom (%)	33.79	
Pollution Sensitive Spp Abund (%)	0.73	
Pollution Sensitive Spp Biom (%)	24.09	1
Carnivore-Omnivore Abundance (%)	4.88	
Deep Deposit Feeder Abundance (%)	49.10	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)	
Site	08321
Carinoma tremaphoros	45
Chironomus spp.	1477
Coelotanypus spp.	91
Hobsonia florida	23
Imm. Tubificid w/o Cap. Chaete *	15063
Leptocheirus plumulosus	477
Limnodrilus hoffmeisteri	591
Marenzelleria viridis	250
Neanthes succinea	45
Streblospio benedicti	14904
Tubificoides spp.	1045
Total Abundance w/ Epifauna	34012
Total Abundance w/o Epifauna	34012
Number of Taxa w/ Epifauna	10
Number of Taxa w/o Epifauna	10
BENTHIC BIOMASS (Grams per sq. meter)	
Site	08321
Carinoma tremaphoros	0.0114
Chironomidae	0.5900
Coelotanypus spp.	0.0386
Hobsonia florida	0.0136
Leptocheirus plumulosus	0.1159
Marenzelleria viridis	1.1451
Neanthes succinea	0.0682

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.	
Site	08321
Oligochaeta	1.1872
Streblospio benedicti	1.5677
Tubificoides spp.	0.0159
Total Biomass w/ Epifauna	4.7535
Total Biomass w/o Epifauna	4.7535

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08101		08102		08103		08104		08105	
Watershed	Potomac R		Potomac R		Potomac R		Potomac R		Potomac R	
Habitat	High Meso Sand		High Meso Mud		Polyhaline Mud		Polyhaline Sand		High Meso Mud	
Date	09/05/01		09/05/01		09/05/01		09/05/01		09/05/01	
Gear	Young Grab		Young Grab		Young Grab		Young Grab		Young Grab	
Sampled Area (sq.m)	0.044		0.044		0.044		0.044		0.044	
BOTTOM ENVIRONMENT										
Depth (m)	4.0		12.0		18.0		15.0		9.0	
Salinity (ppt)	15.33		17.52		18.34		18.25		17.16	
Temperature (C)	26.09		26.23		26.36		26.37		26.27	
Dissolved Oxygen (mg/L)	7.2		1.3		0.9		0.9		2.8	
Sediment Silt-Clay (%)	26.25		72.11		82.15		16.83		68.00	
Total Carbon (%)	1.06		2.66		3.09		0.43		3.24	
BENTHIC INDEX OF BIOTIC INTEGRITY										
B-IBI Score	2.33		1.00		1.00		1.33		1.00	
Condition	Degraded		Severely Degr.		Severely Degr.		Severely Degr.		Severely Degr.	
# Attributes Scored	6		6		6		6		6	
	Value	Score	Value	Score	Value	Score	Value	Score	Value	Score
Shannon-Wiener Index	0.92	1	0.00	1	0.00	1	1.56	1	0.54	1
Abundance (#/m2)	68	1	0	1	23	1	977	1	182	1
Biomass (g/m2)	0.27	1	0.00	1	0.01	1	0.06	1	0.00	1
Pollution Indicative Spp Abund (%)	0.00	5	100.00		100.00		74.42		87.50	
Pollution Indicative Spp Biom (%)	0.00		100.00	1	100.00	1	92.00	1	50.00	1
Pollution Sensitive Spp Abund (%)	0.00	1	0.00		0.00		25.58	3	0.00	
Pollution Sensitive Spp Biom (%)	0.00		0.00	1	0.00	1	8.00		0.00	1
Carnivore-Omnivore Abundance (%)	100.00	5	0.00	1	0.00	1	0.00		0.00	1
Deep Deposit Feeder Abundance (%)	0.00		0.00		0.00		0.00	1	0.00	

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08101	08102	08103	08104	08105
Ampelisca abdita					23
Neanthes succinea	45				
Paraesionia luteola	23				
Paraprionospio pinnata				364	
Phoronis spp.				250	
Streblospio benedicti			23	364	159
Total Abundance w/ Epifauna	68	0	23	977	182
Total Abundance w/o Epifauna	68		23	977	182
Number of Taxa w/ Epifauna	2	0	1	3	2
Number of Taxa w/o Epifauna	2	0	1	3	2
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08101	08102	08103	08104	08105
Ampelisca abdita					0.0011
Neanthes succinea	0.2636				
Paraesionia luteola	0.0023				
Paraprionospio pinnata				0.0386	
Phoronis spp.				0.0045	
Streblospio benedicti			0.0091	0.0136	0.0011
Total Biomass w/ Epifauna	0.2658	0.0000	0.0091	0.0568	0.0023
Total Biomass w/o Epifauna	0.2658		0.0091	0.0568	0.0023

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08106	08107	08108	08109	08110
Watershed	Potomac R	Potomac R	Potomac R	Potomac R	Potomac R
Habitat	High Meso Mud	High Meso Mud	High Meso Mud	High Meso Mud	High Meso Mud
Date	09/05/01	09/05/01	09/06/01	09/06/01	09/06/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	5.0	7.0	3.0	8.0	12.0
Salinity (ppt)	16.76	16.51	15.14	14.73	17.68
Temperature (C)	26.39	26.38	26.21	26.28	26.35
Dissolved Oxygen (mg/L)	4.5	3.5	4.5	0.8	0.6
Sediment Silt-Clay (%)	43.83	76.57	47.40	85.00	79.90
Total Carbon (%)	1.20	3.26	1.13	3.08	3.26
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	2.33	1.00	3.00	1.00	1.00
Condition	Degraded	Severely Degr.	Meets Goal	Severely Degr.	Severely Degr.
# Attributes Scored	6	6	6	6	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.11 3	0.00 1	2.23 3	0.00 1	0.00 1
Abundance (#/m2)	204 1	0 1	5226 1	68 1	0 1
Biomass (g/m2)	0.10 1	0.00 1	1.71 3	0.01 1	0.00 1
Pollution Indicative Spp Abund (%)	44.44	100.00	0.00	100.00	100.00
Pollution Indicative Spp Biom (%)	65.22 1	100.00 1	0.00 5	100.00 1	100.00 1
Pollution Sensitive Spp Abund (%)	44.44	0.00	15.65	0.00	0.00
Pollution Sensitive Spp Biom (%)	30.43 3	0.00 1	31.54 3	0.00 1	0.00 1
Carnivore-Omnivore Abundance (%)	33.33 5	0.00 1	18.26 3	0.00 1	0.00 1
Deep Deposit Feeder Abundance (%)	0.00	0.00	62.61	0.00	0.00

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08106	08107	08108	08109	08110
Acteocina canaliculata			23		
Americamysis almyra (Epi.)	23				
Carinoma tremaphoros			23		
Cyathura polita			727		
Glycinde solitaria	68		45		
Heteromastus filiformis			704		
Leptocheirus plumulosus			636		
Macoma balthica			23		
Macoma mitchelli	23		341		
Marenzelleria viridis	23				
Mulinia lateralis	23				
Neanthes succinea			114		
Parahesionia luteola			23		
Streblospio benedicti	68			68	
Tubificoides spp.			2567		
Total Abundance w/ Epifauna	227	0	5226	68	0
Total Abundance w/o Epifauna	204		5226	68	
Number of Taxa w/ Epifauna	6	0	11	1	0
Number of Taxa w/o Epifauna	5	0	11	1	0
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08106	08107	08108	08109	08110
Acteocina canaliculata			0.0011		
Americamysis almyra (Epi.)	0.0045				
Carinoma tremaphoros			0.0250		

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08106	08107	08108	08109	08110
Cyathura polita			0.5135		
Glycinde solitaria	0.0136		0.0011		
Heteromastus filiformis			0.3567		
Leptocheirus plumulosus			0.0568		
Macoma balthica			0.0227		
Macoma mitchelli	0.0045		0.3204		
Marenzelleria viridis	0.0182				
Mulinia lateralis	0.0636				
Neanthes succinea			0.3749		
Paraehesione luteola			0.0011		
Streblospio benedicti	0.0045			0.0091	
Tubificoides spp.			0.0341		
Total Biomass w/ Epifauna	0.1091	0.0000	1.7074	0.0091	0.0000
Total Biomass w/o Epifauna	0.1045		1.7074	0.0091	

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08111	08112	08113	08114	08115
Watershed	Potomac R	Potomac R	Potomac R	Potomac R	Potomac R
Habitat	High Meso Mud	High Meso Mud	High Meso Mud	Low Mesohaline	Low Mesohaline
Date	09/06/01	09/06/01	09/06/01	09/06/01	09/06/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	6.0	8.5	6.0	5.0	8.8
Salinity (ppt)	14.61	15.74	16.42	11.42	11.96
Temperature (C)	26.29	26.30	26.29	26.11	26.50
Dissolved Oxygen (mg/L)	0.7	0.6	0.8	4.1	2.5
Sediment Silt-Clay (%)	92.04	83.96	51.37	9.26	74.48
Total Carbon (%)	3.07	3.24	2.10	0.36	1.77
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	1.00	1.00	1.00	2.60	3.80
Condition	Severely Degr.	Severely Degr.	Severely Degr.	Degraded	Meets Goal
# Attributes Scored	6	6	6	5	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	0.00 1	0.00 1	0.72 1	2.95 5	2.61 5
Abundance (#/m2)	23 1	0 1	114 1	3294 3	818 3
Biomass (g/m2)	0.00 1	0.00 1	0.02 1	2.83 3	8.02 5
Pollution Indicative Spp Abund (%)	100.00	100.00	100.00	33.79 1	33.33 1
Pollution Indicative Spp Biom (%)	100.00 1	100.00 1	100.00 1	1.73	0.16
Pollution Sensitive Spp Abund (%)	0.00	0.00	0.00	0.69	8.33
Pollution Sensitive Spp Biom (%)	0.00 1	0.00 1	0.00 1	6.99 1	92.67 5
Carnivore-Omnivore Abundance (%)	0.00 1	0.00 1	0.00 1	8.28	30.56
Deep Deposit Feeder Abundance (%)	0.00	0.00	0.00	40.69	19.44

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08111	08112	08113	08114	08115
Carinoma tremaphoros				23	23
Eteone heteropoda				136	23
Heteromastus filiformis				500	23
Imm. Tubificid w/o Cap. Chaete				295	
Leptocheirus plumulosus				545	
Macoma balthica				23	45
Macoma mitchelli				432	91
Micrura leidyi				68	
Mulinia lateralis				23	
Neanthes succinea				45	204
Paraprionospio pinnata			23		
Rangia cuneata					23
Streblospio benedicti	23		91	659	250
Tubificoides spp.				545	136
Total Abundance w/ Epifauna	23	0	114	3294	818
Total Abundance w/o Epifauna	23		114	3294	818
Number of Taxa w/ Epifauna	1	0	2	12	9
Number of Taxa w/o Epifauna	1	0	2	12	9
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08111	08112	08113	08114	08115
Carinoma tremaphoros				0.0011	0.0068
Eteone heteropoda				0.0011	0.0011
Heteromastus filiformis				0.5248	0.0068
Leptocheirus plumulosus				0.0863	

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08111	08112	08113	08114	08115
Macoma balthica				0.1977	0.5703
Macoma mitchelli				0.3908	0.2090
Micrura leidyi				1.5086	
Mulinia lateralis				0.0273	
Neanthes succinea				0.0659	0.3522
Oligochaeta				0.0011	
Paraprionospio pinnata			0.0159		
Rangia cuneata					6.8660
Streblospio benedicti	0.0023		0.0091	0.0204	0.0114
Tubificoides spp.				0.0011	0.0011
Total Biomass w/ Epifauna	0.0023	0.0000	0.0250	2.8264	8.0247
Total Biomass w/o Epifauna	0.0023		0.0250	2.8264	8.0247

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08116	08117
Watershed	Potomac R	Potomac R
Habitat	Low Mesohaline	Low Mesohaline
Date	09/06/01	09/17/01
Gear	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044
BOTTOM ENVIRONMENT		
Depth (m)	3.0	7.0
Salinity (ppt)	11.11	6.45
Temperature (C)	25.88	23.60
Dissolved Oxygen (mg/L)	6.1	2.8
Sediment Silt-Clay (%)	73.09	93.40
Total Carbon (%)	2.11	2.50
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score	2.60	2.60
Condition	Degraded	Degraded
# Attributes Scored	5	5
	Value Score	Value Score
Shannon-Wiener Index	2.11 3	1.87 3
Abundance (#/m2)	1454 3	2386 5
Biomass (g/m2)	0.75 1	0.76 1
Pollution Indicative Spp Abund (%)	10.94 3	26.67 1
Pollution Indicative Spp Biom (%)	0.45	4.19
Pollution Sensitive Spp Abund (%)	6.25	8.57
Pollution Sensitive Spp Biom (%)	42.53 3	73.05 3
Carnivore-Omnivore Abundance (%)	10.94	7.62
Deep Deposit Feeder Abundance (%)	17.19	10.48

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)		
Site	08116	08117
Carinoma tremaphoros	68	23
Coelotanypus spp.	23	23
Cyathura polita	68	136
Heteromastus filiformis	23	
Imm. Tubificid w/o Cap. Chaete	91	
Leptocheirus plumulosus	886	1272
Macoma balthica	23	45
Macoma mitchelli	91	
Marenzelleria viridis		23
Melita nitida (Epi.)	1250	91
Streblospio benedicti	45	613
Tubificoides spp.	136	250
Total Abundance w/ Epifauna	2704	2476
Total Abundance w/o Epifauna	1454	2386
Number of Taxa w/ Epifauna	11	9
Number of Taxa w/o Epifauna	10	8
BENTHIC BIOMASS (Grams per sq. meter)		
Site	08116	08117
Carinoma tremaphoros	0.0204	0.0136
Coelotanypus spp.	0.0023	0.0068
Cyathura polita	0.1113	0.1999
Heteromastus filiformis	0.0114	
Leptocheirus plumulosus	0.1477	0.1522
Macoma balthica	0.2090	0.2749

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.		
Site	08116	08117
Macoma mitchelli	0.2476	
Marenzelleria viridis		0.0795
Melita nitida (Epi.)	0.0364	0.0023
Oligochaeta	0.0011	
Streblospio benedicti	0.0011	0.0250
Tubificoides spp.	0.0011	0.0068
Total Biomass w/ Epifauna	0.7895	0.7611
Total Biomass w/o Epifauna	0.7532	0.7588

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08202	08203	08204	08205	08206
Watershed	Patuxent R	Patuxent R	Patuxent R	Patuxent R	Patuxent R
Habitat	High Meso Mud	High Meso Mud	High Meso Sand	High Meso Mud	High Meso Sand
Date	09/07/01	09/07/01	09/07/01	09/07/01	09/07/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	7.0	10.5	2.0	5.0	5.0
Salinity (ppt)	14.91	15.54	13.97	14.44	14.38
Temperature (C)	26.38	26.36	25.89	26.56	26.41
Dissolved Oxygen (mg/L)	6.1	3.6	7.9	3.9	5.3
Sediment Silt-Clay (%)	81.23	85.96	10.93	79.77	30.51
Total Carbon (%)	2.35	3.04	0.09	3.44	0.92
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	2.67	3.33	2.67	2.00	3.00
Condition	Marginal	Meets Goal	Marginal	Severely Degr.	Meets Goal
# Attributes Scored	6	6	6	6	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.50 3	3.33 5	2.19 1	2.18 3	2.92 3
Abundance (#/m2)	182 1	1250 3	795 1	704 1	704 1
Biomass (g/m2)	0.13 1	0.81 3	0.15 1	0.05 1	0.81 1
Pollution Indicative Spp Abund (%)	0.00	14.55	0.00	74.19	9.68
Pollution Indicative Spp Biom (%)	0.00	7.83	0.00	31.71	0.56
Pollution Sensitive Spp Abund (%)	37.50	14.55	60.00	0.00	25.81
Pollution Sensitive Spp Biom (%)	1.77	6.71	37.59	0.00	3.09
Carnivore-Omnivore Abundance (%)	62.50	54.55	77.14	61.29	58.06
Deep Deposit Feeder Abundance (%)	25.00	16.36	5.71	9.68	25.81

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08202	08203	08204	08205	08206
Acteocina canaliculata	45	91	386		
Americamysis almyra (Epi.)			45		182
Ameroculodes species complex			23		
Carinoma tremaphoros					23
Chironomidae pupae *				45	
Chironomus spp.				318	
Cyclaspis varians			23		
Eteone heteropoda				23	
Gemma gemma		23			45
Glycinde solitaria	23	91	91		182
Haminoea solitaria			136		
Heteromastus filiformis					136
Imm. Tubificid w/o Cap. Chaete					45
Leitoscoloplos robustus		23			
Leucon americanus	23	23			23
Macoma mitchelli		136	91	23	
Micrura leidyi					23
Molgula manhattensis (Epi.)		23			
Mulinia lateralis		182			23
Neanthes succinea	23	91		45	136
Odostomia engonia (Epi.)		45			
Parahesionia luteola	23	91			
Pectinaria gouldii		182	45		
Podarkeopsis levifuscina		159			45
Rictaxis punctostriatus		159			
Sayella chesapeakea (Epi.)			91		
Streblospio benedicti				182	
Tellinidae					23

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	08202	08203	08204	08205	08206
Tubificoides spp.	45			68	
Total Abundance w/ Epifauna	182	1318	932	704	886
Total Abundance w/o Epifauna	182	1250	795	704	704
Number of Taxa w/ Epifauna	6	14	9	6	12
Number of Taxa w/o Epifauna	6	12	7	6	11
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08202	08203	08204	08205	08206
Acteocina canaliculata	0.0011	0.0227	0.0477		
Americamysis almyra (Epi.)			0.0182		0.0613
Ameroculodes species complex			0.0023		
Carinoma tremaphoros					0.0136
Chironomidae				0.0011	
Chironomidae pupae *				0.0068	
Cyclaspis varians			0.0023		
Eteone heteropoda				0.0011	
Gemma gemma		0.0204			0.0011
Glycinde solitaria	0.0011	0.0318	0.0091		0.0250
Haminoea solitaria			0.0568		
Heteromastus filiformis					0.0932
Leitoscoloplos spp.		0.1886			
Leucon americanus	0.0011	0.0011			0.0011
Macoma mitchelli		0.0114	0.0318	0.0204	
Micrura leidyi					0.0136
Molgula manhattensis (Epi.)		0.0011			

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08202	08203	08204	08205	08206
Mulinia lateralis		0.0636			0.0045
Neanthes succinea	0.1227	0.4544		0.0023	0.6498
Odostomia engonia (Epi.)		0.0011			
Oligochaeta					0.0011
Parahelesione luteola	0.0011	0.0068			
Pectinaria gouldii		0.0011	0.0011		
Podarkeopsis levifuscina		0.0091			0.0023
Rictaxis punctostriatus		0.0011			
Sayella chesapeakea (Epi.)			0.0045		
Streblospio benedicti				0.0136	
Tellinidae					0.0023
Tubificoides spp.	0.0011			0.0011	
Total Biomass w/ Epifauna	0.1284	0.8145	0.1738	0.0466	0.8690
Total Biomass w/o Epifauna	0.1284	0.8122	0.1511	0.0466	0.8077

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08207	08209	08210	08211	08212
Watershed	Patuxent R	Patuxent R	Patuxent R	Patuxent R	Patuxent R
Habitat	High Meso Mud	High Meso Sand	High Meso Mud	High Meso Mud	High Meso Mud
Date	09/07/01	09/07/01	09/07/01	09/07/01	09/07/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	4.0	4.0	6.0	7.0	6.0
Salinity (ppt)	14.46	14.45	14.69	14.98	14.64
Temperature (C)	26.65	26.49	26.56	26.52	26.57
Dissolved Oxygen (mg/L)	2.8	3.9	2.6	2.3	2.4
Sediment Silt-Clay (%)	76.09	11.80	96.74	93.42	95.29
Total Carbon (%)	3.48	0.19	3.02	3.05	2.83
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	2.67	3.00	2.33	1.33	1.67
Condition	Marginal	Meets Goal	Degraded	Severely Degr.	Severely Degr.
# Attributes Scored	6	6	6	6	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	1.00 1	2.68 3	2.12 3	1.49 1	2.44 3
Abundance (#/m2)	45 1	1363 3	227 1	227 1	432 1
Biomass (g/m2)	0.01 1	0.48 1	0.03 1	0.00 1	0.09 1
Pollution Indicative Spp Abund (%)	0.00	3.33 5	30.00	80.00	57.89
Pollution Indicative Spp Biom (%)	0.00 5	12.26	20.69 3	66.67 1	41.46 1
Pollution Sensitive Spp Abund (%)	50.00	18.33 3	20.00	0.00	15.79
Pollution Sensitive Spp Biom (%)	66.67 3	9.43	6.90 1	0.00 1	7.32 1
Carnivore-Omnivore Abundance (%)	50.00 5	26.67 3	70.00 5	20.00 3	21.05 3
Deep Deposit Feeder Abundance (%)	50.00	11.67	0.00	0.00	10.53

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08207	08209	08210	08211	08212
Acteocina canaliculata	23	204			
Americamysis almyra (Epi.)		23			
Cyclaspis varians		23			
Gemma gemma		114			
Geukensia demissa (Epi.)		91			
Glycinde solitaria		23	45		68
Heteromastus filiformis		91			
Leitoscoloplos spp.					23
Leucon americanus					45
Macoma mitchelli		636			
Marenzelleria viridis		23			
Micrura leidyi		68			
Mulinia lateralis		45			
Neanthes succinea		23	91	45	23
Paraprionospio pinnata			45	68	91
Pectinaria gouldii		23			
Podarkeopsis levifuscina			23		
Rictaxis punctostriatus		45			
Sayella chesapeakea (Epi.)		114			
Streblospio benedicti			23	114	159
Tubificoides spp.	23	45			23
Total Abundance w/ Epifauna	45	1590	227	227	432
Total Abundance w/o Epifauna	45	1363	227	227	432
Number of Taxa w/ Epifauna	2	16	5	3	7
Number of Taxa w/o Epifauna	2	13	5	3	7

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)					
Site	08207	08209	08210	08211	08212
Acteocina canaliculata	0.0045	0.0432			
Americamysis almyra (Epi.)		0.0011			
Cyclaspis varians		0.0011			
Gemma gemma		0.0011			
Geukensia demissa (Epi.)		0.0011			
Glycinde solitaria		0.0011	0.0023		0.0068
Heteromastus filiformis		0.0011			
Leitoscoloplos spp.					0.0250
Leucon americanus					0.0114
Macoma mitchelli		0.2227			
Marenzelleria viridis		0.0011			
Micrura leidyi		0.1091			
Mulinia lateralis		0.0591			
Neanthes succinea		0.0386	0.0227	0.0011	0.0068
Paraprionospio pinnata			0.0045	0.0011	0.0250
Pectinaria gouldii		0.0011			
Podarkeopsis levifuscina			0.0011		
Rictaxis punctostriatus		0.0011			
Sayella chesapeakea (Epi.)		0.0068			
Streblospio benedicti			0.0023	0.0011	0.0136
Tubificoides spp.	0.0023	0.0011			0.0045
Total Biomass w/ Epifauna	0.0068	0.4908	0.0329	0.0034	0.0932
Total Biomass w/o Epifauna	0.0068	0.4817	0.0329	0.0034	0.0932

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08213	08214	08215	08216	08217
Watershed	Patuxent R	Patuxent R	Patuxent R	Patuxent R	Patuxent R
Habitat	High Meso Mud	High Meso Sand	High Meso Mud	High Meso Mud	High Meso Mud
Date	09/07/01	09/07/01	09/07/01	09/07/01	09/07/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	4.0	2.0	7.0	6.0	7.0
Salinity (ppt)	14.30	12.65	14.76	14.42	14.95
Temperature (C)	26.53	26.17	26.57	26.56	26.57
Dissolved Oxygen (mg/L)	1.8	8.0	1.6	2.2	1.6
Sediment Silt-Clay (%)	53.81	8.82	91.58	83.43	99.65
Total Carbon (%)	1.83	0.58	2.96	2.62	3.04
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	3.00	2.67	2.33	1.33	1.00
Condition	Meets Goal	Marginal	Degraded	Severely Degr.	Severely Degr.
# Attributes Scored	6	6	6	6	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.87 3	2.18 1	2.79 3	1.96 1	0.92 1
Abundance (#/m2)	1091 3	2227 5	273 1	273 1	68 1
Biomass (g/m2)	1.04 3	0.58 1	0.05 1	0.12 1	0.00 1
Pollution Indicative Spp Abund (%)	12.50	5.10 5	50.00	66.67	66.67
Pollution Indicative Spp Biom (%)	7.66 3	67.45	17.39 3	19.05 3	50.00 1
Pollution Sensitive Spp Abund (%)	12.50	7.14 1	0.00	0.00	0.00
Pollution Sensitive Spp Biom (%)	3.06 1	3.31	0.00 1	0.00 1	0.00 1
Carnivore-Omnivore Abundance (%)	62.50 5	20.41 3	25.00 5	0.00 1	0.00 1
Deep Deposit Feeder Abundance (%)	8.33	10.20	8.33	25.00	33.33

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08213	08214	08215	08216	08217
<i>Acteocina canaliculata</i>		136			
<i>Carinoma tremaphoros</i>		23			
<i>Edwardsia elegans</i>		23			
<i>Gemma gemma</i>		45			
<i>Glycinde solitaria</i>	136	23			
<i>Haminoea solitaria</i>		91			
<i>Heteromastus filiformis</i>	23	182			
<i>Leitoscoloplos</i> spp.				23	
<i>Leptocheirus plumulosus</i>	23		23		
<i>Macoma mitchelli</i>	159	1386	23	23	
<i>Micrura leidyi</i>		23	23		
<i>Mulinia lateralis</i>	136	114			
<i>Neanthes succinea</i>	341	45			
<i>Paraehesione luteola</i>	114		23		
<i>Paraprionospio pinnata</i>			68	45	
<i>Pectinaria gouldii</i>		23			
<i>Podarkeopsis levifuscina</i>	68		23		
<i>Rictaxis punctostriatus</i>	23	91			
<i>Sayella chesapeakea</i> (Epi.)		159			
<i>Streblospio benedicti</i>			68	136	45
<i>Tubificoides</i> spp.	68	23	23	45	23
Total Abundance w/ Epifauna	1091	2386	273	273	68
Total Abundance w/o Epifauna	1091	2227	273	273	68
Number of Taxa w/ Epifauna	10	15	8	5	2
Number of Taxa w/o Epifauna	10	14	8	5	2

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)					
Site	08213	08214	08215	08216	08217
Acteocina canaliculata		0.0182			
Carinoma tremaphoros		0.0045			
Edwardsia elegans		0.0011			
Gemma gemma		0.0045			
Glycinde solitaria	0.0318	0.0011			
Haminoea solitaria		0.0023			
Heteromastus filiformis	0.0045	0.0704			
Leitoscoloplos spp.				0.0932	
Leptocheirus plumulosus	0.0023		0.0136		
Macoma mitchelli	0.1954	0.0273	0.0091	0.0023	
Micrura leidyi		0.0114	0.0023		
Mulinia lateralis	0.0795	0.3931			
Neanthes succinea	0.7111	0.0409			
Parahesion luteola	0.0068		0.0091		
Paraprionospio pinnata			0.0045	0.0136	
Pectinaria gouldii		0.0011			
Podarkeopsis levifuscina	0.0045		0.0045		
Rictaxis punctostriatus	0.0011	0.0045			
Sayella chesapeakea (Epi.)		0.0023			
Streblospio benedicti			0.0045	0.0091	0.0011
Tubificoides spp.	0.0011	0.0023	0.0045	0.0011	0.0011
Total Biomass w/ Epifauna	1.0383	0.5850	0.0523	0.1193	0.0023
Total Biomass w/o Epifauna	1.0383	0.5828	0.0523	0.1193	0.0023

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08218	08219	08220	08221	08222
Watershed	Patuxent R	Patuxent R	Patuxent R	Patuxent R	Patuxent R
Habitat	High Meso Mud	High Meso Mud	High Meso Mud	Low Mesohaline	Low Mesohaline
Date	09/07/01	09/07/01	09/07/01	09/07/01	09/07/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	6.0	10.0	9.0	3.0	2.0
Salinity (ppt)	14.45	14.03	13.87	10.25	10.82
Temperature (C)	26.59	26.62	26.59	26.09	26.39
Dissolved Oxygen (mg/L)	1.7	1.7	1.9	5.6	4.5
Sediment Silt-Clay (%)	98.53	96.64	91.05	81.34	96.49
Total Carbon (%)	2.97	2.80	2.73	2.07	2.46
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	1.33	1.00	3.00	4.20	4.20
Condition	Severely Degr.	Severely Degr.	Meets Goal	Meets Goal	Meets Goal
# Attributes Scored	6	6	6	5	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	1.42 1	0.97 1	3.10 5	2.83 5	2.67 5
Abundance (#/m2)	295 1	682 1	250 1	2295 5	1227 3
Biomass (g/m2)	0.15 1	0.11 1	0.56 3	2.92 3	6.20 5
Pollution Indicative Spp Abund (%)	69.23	86.67	27.27	2.97 5	3.70 5
Pollution Indicative Spp Biom (%)	6.06 3	32.65 1	14.60 3	0.39	32.97
Pollution Sensitive Spp Abund (%)	0.00	0.00	0.00	25.74	57.41
Pollution Sensitive Spp Biom (%)	0.00 1	0.00 1	0.00 1	66.89 3	55.65 3
Carnivore-Omnivore Abundance (%)	0.00 1	6.67 1	27.27 5	21.78	42.59
Deep Deposit Feeder Abundance (%)	0.00	3.33	27.27	21.78	24.07

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08218	08219	08220	08221	08222
Carinoma tremaphoros			23	91	23
Cyathura polita				295	477
Eteone heteropoda			23	45	
Glycinde solitaria				23	
Heteromastus filiformis			23	136	136
Imm. Tubificid w/o Cap. Chaete					23
Leitoscoloplos spp.			23		
Leptocheirus plumulosus			23	750	68
Macoma balthica				273	204
Macoma mitchelli	91	23	45	250	91
Marenzelleria viridis					23
Melita nitida (Epi.)				182	68
Micrura leidyi					23
Neanthes succinea			23	45	
Paraprionospio pinnata	45	23			
Podarkeopsis levifuscina		45			
Streblospio benedicti	159	568	45	23	23
Tubificoides spp.		23	23	364	136
Total Abundance w/ Epifauna	295	682	250	2476	1295
Total Abundance w/o Epifauna	295	682	250	2295	1227
Number of Taxa w/ Epifauna	3	5	9	12	12
Number of Taxa w/o Epifauna	3	5	9	11	11

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)					
Site	08218	08219	08220	08221	08222
Carinoma tremaphoros			0.1136	0.0932	0.0227
Cyathura polita				0.6112	1.3155
Eteone heteropoda			0.0795	0.0068	
Glycinde solitaria				0.0011	
Heteromastus filiformis			0.0068	0.0250	0.0364
Leitoscoloplos spp.			0.0432		
Leptocheirus plumulosus			0.0045	0.1568	0.0136
Macoma balthica				1.3428	2.0652
Macoma mitchelli	0.1409	0.0659	0.2181	0.6702	0.1727
Marenzelleria viridis					0.0704
Melita nitida (Epi.)				0.0091	0.0011
Micrura leidyi					0.4544
Neanthes succinea			0.0909	0.0068	
Oligochaeta					0.0011
Paraprionospio pinnata	0.0045	0.0068			
Podarkeopsis levifuscina		0.0045			
Streblospio benedicti	0.0045	0.0295	0.0023	0.0045	2.0448
Tubificoides spp.		0.0045	0.0011	0.0045	0.0045
Total Biomass w/ Epifauna	0.1500	0.1113	0.5600	2.9320	6.2026
Total Biomass w/o Epifauna	0.1500	0.1113	0.5600	2.9229	6.2014

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08226	08227
Watershed	Patuxent R	Patuxent R
Habitat	High Meso Mud	High Meso Mud
Date	09/07/01	09/07/01
Gear	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044
BOTTOM ENVIRONMENT		
Depth (m)	9.0	10.0
Salinity (ppt)	15.18	15.55
Temperature (C)	26.47	26.42
Dissolved Oxygen (mg/L)	2.6	2.9
Sediment Silt-Clay (%)	94.56	94.20
Total Carbon (%)	3.43	2.90
BENTHIC INDEX OF BIOTIC INTEGRITY		
B-IBI Score	1.67	1.33
Condition	Severely Degr.	Severely Degr.
# Attributes Scored	6	6
	Value Score	Value Score
Shannon-Wiener Index	1.25 1	1.79 1
Abundance (#/m2)	136 1	136 1
Biomass (g/m2)	0.09 1	0.01 1
Pollution Indicative Spp Abund (%)	16.67	50.00
Pollution Indicative Spp Biom (%)	5.13 3	30.77 1
Pollution Sensitive Spp Abund (%)	0.00	16.67
Pollution Sensitive Spp Biom (%)	0.00 1	15.38 1
Carnivore-Omnivore Abundance (%)	16.67 3	16.67 3
Deep Deposit Feeder Abundance (%)	0.00	33.33

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)		
Site	08226	08227
Glycinde solitaria		23
Leptocheirus plumulosus	91	
Mulinia lateralis	23	
Pectinaria gouldii		23
Rictaxis punctostriatus	23	
Streblospio benedicti		68
Tubificoides spp.		23
Total Abundance w/ Epifauna	136	136
Total Abundance w/o Epifauna	136	136
Number of Taxa w/ Epifauna	3	4
Number of Taxa w/o Epifauna	3	4
BENTHIC BIOMASS (Grams per sq. meter)		
Site	08226	08227
Glycinde solitaria		0.0023
Leptocheirus plumulosus	0.0750	
Mulinia lateralis	0.0045	
Pectinaria gouldii		0.0068
Rictaxis punctostriatus	0.0091	
Streblospio benedicti		0.0045
Tubificoides spp.		0.0011
Total Biomass w/ Epifauna	0.0886	0.0148
Total Biomass w/o Epifauna	0.0886	0.0148

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08601	08602	08603	08604	08605
Watershed	Upper Bay	Upper Bay	Upper Bay	Upper Bay	Upper Bay
Habitat	High Meso Mud	High Meso Mud	High Meso Mud	High Meso Mud	High Meso Sand
Date	09/11/01	09/10/01	09/11/01	09/11/01	09/10/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	10.0	8.0	8.0	9.0	5.0
Salinity (ppt)	14.22	13.39	13.98	14.20	12.45
Temperature (C)	25.50	25.20	25.47	25.48	26.37
Dissolved Oxygen (mg/L)	4.5	5.3	4.5	4.0	7.2
Sediment Silt-Clay (%)	82.22	56.72	90.71	79.84	5.42
Total Carbon (%)	3.32	1.66	3.19	3.25	0.12
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	2.67	3.00	3.33	2.33	1.67
Condition	Marginal	Meets Goal	Meets Goal	Degraded	Severely Degr.
# Attributes Scored	6	6	6	6	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	1.82 1	2.60 3	1.92 1	0.81 1	2.19 1
Abundance (#/m2)	1636 5	1659 5	136 1	91 1	3135 3
Biomass (g/m2)	1.00 3	0.62 3	6.07 5	0.14 1	1.48 3
Pollution Indicative Spp Abund (%)	12.50	53.42	16.67	0.00	36.96 1
Pollution Indicative Spp Biom (%)	29.11 3	5.82 3	0.19 5	0.00 5	56.72
Pollution Sensitive Spp Abund (%)	2.78	9.59	33.33	0.00	2.17 1
Pollution Sensitive Spp Biom (%)	25.53 1	7.27 1	97.53 3	0.00 1	6.91
Carnivore-Omnivore Abundance (%)	13.89 3	24.66 3	50.00 5	75.00 5	3.62 1
Deep Deposit Feeder Abundance (%)	8.33	5.48	0.00	25.00	13.77

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08601	08602	08603	08604	08605
<i>Amphiporus bioculatus</i>					23
<i>Carinoma tremaphoros</i>	23	45	23		68
<i>Eteone heteropoda</i>		45			
<i>Gemma gemma</i>	1045				23
<i>Glycinde solitaria</i>	23	159			
<i>Heteromastus filiformis</i>		23		23	409
<i>Leitoscoloplos</i> spp.		45			23
<i>Leptocheirus plumulosus</i>					182
<i>Macoma balthica</i>	23		45		23
<i>Macoma mitchelli</i>		318			1159
<i>Marenzelleria viridis</i>					45
<i>Micrura leidyi</i>					23
<i>Mulinia lateralis</i>		182			1113
Mysidae (Epi.)					45
Mytilidae (Epi.)					68
<i>Neanthes succinea</i>	182	136	45	68	
Nemertinea		23			
<i>Paraprionospio pinnata</i>	114		23		
<i>Pectinaria gouldii</i>		23			
<i>Streblospio benedicti</i>	91	659			45
<i>Tubificoides</i> spp.	136				
Total Abundance w/ Epifauna	1636	1659	136	91	3249
Total Abundance w/o Epifauna	1636	1659	136	91	3135
Number of Taxa w/ Epifauna	8	11	4	2	14
Number of Taxa w/o Epifauna	8	11	4	2	12

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)					
Site	08601	08602	08603	08604	08605
Amphiporus bioculatus					0.0011
Carinoma tremaphoros	0.0136	0.0863	0.0136		0.0045
Eteone heteropoda		0.0045			
Gemma gemma	0.0364				0.0011
Glycinde solitaria	0.0182	0.0454			
Heteromastus filiformis		0.0091		0.0523	0.0772
Leitoscoloplos spp.		0.1295			0.0523
Leptocheirus plumulosus					0.0432
Macoma balthica	0.2363		5.9208		0.0841
Macoma mitchelli		0.0318			0.1454
Marenzelleria viridis					0.0182
Micrura leidyi					0.2136
Mulinia lateralis		0.0091			0.8384
Mysidae (Epi.)					0.0011
Mytilidae (Epi.)					0.0011
Neanthes succinea	0.3953	0.2636	0.1250	0.0863	
Nemertinea		0.0182			
Paraprionospio pinnata	0.2810		0.0114		
Pectinaria gouldii		0.0045			
Streblospio benedicti	0.0091	0.0227			0.0011
Tubificoides spp.	0.0068				
Total Biomass w/ Epifauna	0.9967	0.6248	6.0708	0.1386	1.4825
Total Biomass w/o Epifauna	0.9967	0.6248	6.0708	0.1386	1.4802

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08606	08607	08608	08609	08610
Watershed	Upper Bay	Upper Bay	Upper Bay	Upper Bay	Upper Bay
Habitat	High Meso Sand	High Meso Sand	Low Mesohaline	High Meso Mud	Low Mesohaline
Date	09/10/01	09/10/01	09/11/01	09/11/01	09/11/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	4.0	3.0	6.0	6.0	3.0
Salinity (ppt)	12.23	12.18	11.74	12.05	11.44
Temperature (C)	25.38	25.37	25.15	25.37	24.92
Dissolved Oxygen (mg/L)	8.0	7.8	6.2	4.3	5.9
Sediment Silt-Clay (%)	2.09	1.91	28.25	80.51	61.95
Total Carbon (%)	0.06	0.05	1.27	3.10	1.87
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	2.00	1.33	4.60	3.67	4.60
Condition	Severely Degr.	Severely Degr.	Meets Goal	Meets Goal	Meets Goal
# Attributes Scored	6	6	5	6	5
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.19 1	2.09 1	2.39 3	2.38 3	2.46 3
Abundance (#/m2)	3385 3	4453 3	1636 5	2431 5	2272 5
Biomass (g/m2)	1.11 3	0.62 1	8.91 5	10.61 3	6.18 5
Pollution Indicative Spp Abund (%)	41.61 1	34.18 1	0.00 5	6.54 3	4.00 5
Pollution Indicative Spp Biom (%)	6.56 3	5.27 1	0.00 5	5.95 3	0.13 3
Pollution Sensitive Spp Abund (%)	11.41 3	4.59 1	11.11 5	16.82 3	17.00 5
Pollution Sensitive Spp Biom (%)	29.10 3	6.55 1	85.40 5	83.86 5	83.21 5
Carnivore-Omnivore Abundance (%)	9.40 1	6.12 1	48.61 5	18.69 3	20.00 5
Deep Deposit Feeder Abundance (%)	7.38 3	2.04 1	19.44 5	14.02 3	22.00 5

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08606	08607	08608	08609	08610
Americamysis bigelowi (Epi.)		23			
Amphiporus bioculatus			23		
Carinoma tremaphoros			91	68	23
Cyathura polita	227	136			
Edotea triloba (Epi.)	23	23			23
Eteone foliosa	23				
Eteone heteropoda					23
Geukensia demissa (Epi.)		23			
Glycinde solitaria	45	45			
Haminoea solitaria		68			
Heteromastus filiformis	250	91	204	136	386
Imm. Tubificid w/o Cap. Chaete					45
Lepidactylus dytiscus	182	1022			
Leptocheirus plumulosus			318	1068	841
Macoma balthica	23		159	409	386
Macoma mitchelli	1113	1522	23		68
Marenzelleria viridis	91	23	23		
Micrura leidyi	23				
Mulinia lateralis	1409	1500		91	23
Mysidae (Epi.)	45				
Neanthes succinea			682	386	409
Nemertinea		23			
Streblospio benedicti		23		68	
Tubificoides spp.			114	204	68
Total Abundance w/ Epifauna	3453	4521	1636	2431	2295
Total Abundance w/o Epifauna	3385	4453	1636	2431	2272
Number of Taxa w/ Epifauna	12	13	9	8	11
Number of Taxa w/o Epifauna	10	10	9	8	10

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)					
Site	08606	08607	08608	08609	08610
Americamysis bigelowi (Epi.)		0.0011			
Amphiporus bioculatus			0.0011		
Carinoma tremaphoros			0.0204	0.0091	0.0011
Cyathura polita	0.1704	0.0318			
Edotea triloba (Epi.)	0.0045	0.0011			0.0011
Eteone foliosa	0.0386				
Eteone heteropoda					0.0011
Geukensia demissa (Epi.)		0.0023			
Glycinde solitaria	0.0023	0.0045			
Haminoea solitaria		0.0011			
Heteromastus filiformis	0.0977	0.0182	0.0318	0.0273	0.1522
Lepidactylus dytiscus	0.0295	0.4203			
Leptocheirus plumulosus			0.3044	0.3794	0.2454
Macoma balthica	0.0523		7.5771	8.9017	5.1393
Macoma mitchelli	0.5226	0.1068	0.0136		0.0011
Marenzelleria viridis	0.0977	0.0045	0.0341		
Micrura leidyi	0.0250				
Mulinia lateralis	0.0727	0.0318		0.6293	0.0068
Mysidae (Epi.)	0.0114				
Neanthes succinea			0.9270	0.6634	0.6271
Nemertinea		0.0045			
Oligochaeta					0.0011
Streblospio benedicti		0.0011		0.0023	
Tubificoides spp.			0.0023	0.0023	0.0011
Total Biomass w/ Epifauna	1.1246	0.6293	8.9119	10.6148	6.1776
Total Biomass w/o Epifauna	1.1087	0.6248	8.9119	10.6148	6.1764

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08611		08612		08613		08615		08617	
Watershed	Upper Bay		Upper Bay		Upper Bay		Upper Bay		Upper Bay	
Habitat	Low Mesohaline		Low Mesohaline		Low Mesohaline		Low Mesohaline		Low Mesohaline	
Date	09/11/01		09/11/01		09/11/01		09/11/01		09/11/01	
Gear	Young Grab		Young Grab		Young Grab		Young Grab		Young Grab	
Sampled Area (sq.m)	0.044		0.044		0.044		0.044		0.044	
BOTTOM ENVIRONMENT										
Depth (m)	4.0		6.0		7.0		5.0		4.0	
Salinity (ppt)	11.76		9.29		9.27		9.33		7.96	
Temperature (C)	25.44		25.01		25.06		24.96		24.75	
Dissolved Oxygen (mg/L)	3.9		5.5		5.2		6.5		7.4	
Sediment Silt-Clay (%)	81.87		74.85		94.13		74.55		90.74	
Total Carbon (%)	3.39		3.34		3.25		3.06		3.19	
BENTHIC INDEX OF BIOTIC INTEGRITY										
B-IBI Score	3.40		3.80		3.40		4.20		3.40	
Condition	Meets Goal		Meets Goal		Meets Goal		Meets Goal		Meets Goal	
# Attributes Scored	5		5		5		5		5	
	Value	Score	Value	Score	Value	Score	Value	Score	Value	Score
Shannon-Wiener Index	2.16	3	2.40	3	2.48	3	3.03	5	3.18	5
Abundance (#/m2)	6680	1	6680	1	3817	3	2976	3	2045	5
Biomass (g/m2)	12.30	3	6.69	5	34.14	1	25.03	3	1.81	3
Pollution Indicative Spp Abund (%)	2.72	5	5.10	5	8.33	5	3.82	5	21.11	1
Pollution Indicative Spp Biom (%)	0.07		0.05		1.82		0.01		1.01	
Pollution Sensitive Spp Abund (%)	10.88		30.61		39.29		35.88		18.89	
Pollution Sensitive Spp Biom (%)	86.52	5	94.30	5	94.61	5	97.71	5	79.17	3
Carnivore-Omnivore Abundance (%)	11.90		25.85		20.83		33.59		27.78	
Deep Deposit Feeder Abundance (%)	22.11		56.80		39.29		39.69		43.33	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08611	08612	08613	08615	08617
Ameroculodes species complex				23	
Amphiporus bioculatus		45			
Balanus improvisus (Epi.)				364	
Carinoma tremaphoros	45	182	250	295	91
Coelotanypus spp.			23		68
Cyathura polita	68	1250	204	523	250
Eteone heteropoda	23		91	23	136
Glycinde solitaria	23	68	23		
Heteromastus filiformis	341	591	68	432	23
Imm. Tubificid w/ Cap. Chaete					45
Imm. Tubificid w/o Cap. Chaete				45	159
Leptocheirus plumulosus	3590			159	318
Macoma balthica	591	659	1250	477	68
Macoma mitchelli	23	91	45	23	68
Marenzelleria viridis		68		45	45
Melita nitida (Epi.)	23			23	91
Mulinia lateralis	23	182	159		
Mytilopsis leucophaeata (Epi.)				182	
Neanthes succinea	636	182	204	159	23
Rangia cuneata	45		23	23	23
Rhithropanopeus harrisii (Epi.)		45		68	
Streblospio benedicti	136	159	45	45	68
Tubificoides spp.	1136	3204	1431	704	659
Total Abundance w/ Epifauna	6702	6725	3817	3612	2136
Total Abundance w/o Epifauna	6680	6680	3817	2976	2045
Number of Taxa w/ Epifauna	14	13	13	18	16
Number of Taxa w/o Epifauna	13	12	13	14	15

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)					
Site	08611	08612	08613	08615	08617
Ameroculodes species complex				0.0091	
Amphiporus bioculatus		0.0023			
Balanus improvisus (Epi.)				1.2337	
Carinoma tremaphoros	0.0114	0.0500	0.0886	0.0613	0.0818
Coelotanypus spp.			0.0068		0.0159
Cyathura polita	0.0068	0.4976	0.0011	0.4976	0.1840
Eteone heteropoda	0.0011		0.0114	0.0023	0.0011
Glycinde solitaria	0.2204	0.0011	0.0023		
Heteromastus filiformis	0.0011	0.1522	0.0114	0.0727	0.0011
Leptocheirus plumulosus	0.7066			0.0182	0.0318
Macoma balthica	9.8741	5.7368	14.9089	9.2448	0.2863
Macoma mitchelli	0.0011	0.0011	0.2295	0.0023	0.2249
Marenzelleria viridis		0.0750		0.0432	0.1795
Melita nitida (Epi.)	0.0011			0.0011	0.0011
Mulinia lateralis	0.0068	0.0011	0.6021		
Mytilopsis leucophaeata (Epi.)				13.6911	
Neanthes succinea	0.9179	0.1477	0.8770	0.3976	0.0159
Oligochaeta				0.0011	0.0011
Rangia cuneata	0.5430		17.3922	14.6703	0.7793
Rhithropanopeus harrisii (Epi.)		1.4473		1.1542	
Streblospio benedicti	0.0011	0.0023	0.0011	0.0011	0.0011
Tubificoides spp.	0.0114	0.0250	0.0114	0.0068	0.0011
Total Biomass w/ Epifauna	12.3040	8.1394	34.1436	41.1084	1.8062
Total Biomass w/o Epifauna	12.3029	6.6922	34.1436	25.0284	1.8051

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

Site	08618	08619	08620	08626
Watershed	Upper Bay	Upper Bay	Upper Bay	Upper Bay
Habitat	Low Mesohaline	Low Mesohaline	Low Mesohaline	Low Mesohaline
Date	09/11/01	09/11/01	09/11/01	09/11/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT				
Depth (m)	4.0	1.5	8.0	3.0
Salinity (ppt)	7.95	5.49	5.37	7.08
Temperature (C)	25.15	25.88	25.17	24.98
Dissolved Oxygen (mg/L)	7.2	8.0	6.9	6.9
Sediment Silt-Clay (%)	94.12	2.53	41.33	82.11
Total Carbon (%)	2.89	0.63	1.63	3.10
BENTHIC INDEX OF BIOTIC INTEGRITY				
B-IBI Score	3.80	4.60	4.20	3.80
Condition	Meets Goal	Meets Goal	Meets Goal	Meets Goal
# Attributes Scored	5	5	5	5
	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.07 3	2.38 3	2.75 5	3.12 5
Abundance (#/m2)	1818 5	1977 5	1545 5	1681 5
Biomass (g/m2)	234.28 1	6.08 5	38.73 1	18.24 3
Pollution Indicative Spp Abund (%)	7.50 5	0.00 5	0.00 5	25.68 1
Pollution Indicative Spp Biom (%)	0.00	0.00	0.00	0.07
Pollution Sensitive Spp Abund (%)	76.25	32.18	66.18	24.32
Pollution Sensitive Spp Biom (%)	99.74 5	96.54 5	99.80 5	99.31 5
Carnivore-Omnivore Abundance (%)	25.00	79.31	44.12	24.32
Deep Deposit Feeder Abundance (%)	6.25	0.00	13.24	22.97

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)				
Site	08618	08619	08620	08626
Apocorophium lacustre (Epi.)		23		
Carinoma tremaphoros	114		45	45
Chiridotea almyra		273		
Chironomus spp.				23
Coelotanypus spp.	114			45
Cyathura polita	182	273	409	250
Edotea triloba (Epi.)			23	
Eteone heteropoda				23
Gammarus daiberi (Epi.)		23		
Hobsonia florida	23	45		
Imm. Tubificid w/o Cap. Chaete *				68
Laeonereis culveri		818		
Leptocheirus plumulosus				432
Limnodrilus hoffmeisteri				23
Macoma mitchelli			23	
Marenzelleria viridis	114	273	295	68
Melita nitida (Epi.)				159
Neanthes succinea	45		68	23
Polydora cornuta			23	45
Polypedilum halterale group		204	136	
Procladius spp.			23	
Rangia cuneata	1091	91	318	91
Rhithropanopeus harrisii (Epi.)			23	
Streblospio benedicti	23			250

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.				
Site	08618	08619	08620	08626
Tubificoides spp.	114		204	295
Total Abundance w/ Epifauna	1818	2022	1590	1840
Total Abundance w/o Epifauna	1818	1977	1545	1681
Number of Taxa w/ Epifauna	9	9	12	14
Number of Taxa w/o Epifauna	9	7	10	13
BENTHIC BIOMASS (Grams per sq. meter)				
Site	08618	08619	08620	08626
Apocorophium lacustre (Epi.)		0.0011		
Carinoma tremaphoros	0.0682		0.0023	0.0068
Chiridotea almyra		0.0750		
Chironomidae		0.0068	0.0011	0.0011
Coelotanypus spp.	0.0011			0.0091
Cyathura polita	0.0068	0.0818	0.0591	0.0841
Edotea triloba (Epi.)			0.0011	
Eteone heteropoda				0.0011
Gammarus daiberi (Epi.)		0.0045		
Hobsonia florida	0.0011	0.0011		
Laeonereis culveri		0.1272		
Leptocheirus plumulosus				0.0909
Macoma mitchelli			0.0045	
Marenzelleria viridis	0.1431	0.5157	0.2090	0.0591
Melita nitida (Epi.)				0.0045
Neanthes succinea	0.5316		0.0682	0.0023
Oligochaeta				0.0003

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02:2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.				
Site	08618	08619	08620	08626
Polydora cornuta			0.0011	0.0045
Rangia cuneata	233.5275	5.2710	38.3809	17.9692
Rhithropanopeus harrisi (Epi.)			0.4203	
Streblospio benedicti	0.0011			0.0023
Tubificoides spp.	0.0011		0.0011	0.0068
Total Biomass w/ Epifauna	234.2818	6.0844	39.1488	18.2422
Total Biomass w/o Epifauna	234.2818	6.0787	38.7274	18.2377

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

Site	08410		08415		08423		08424		08425	
Watershed	Eastern Tribs		Eastern Tribs		Eastern Tribs		Eastern Tribs		Eastern Tribs	
Habitat	Oligohaline		Oligohaline		Oligohaline		Oligohaline		Oligohaline	
Date	09/24/01		09/24/01		09/11/01		09/18/01		09/18/01	
Gear	Young Grab		Young Grab		Young Grab		Young Grab		Young Grab	
Sampled Area (sq.m)	0.044		0.044		0.044		0.044		0.044	
BOTTOM ENVIRONMENT										
Depth (m)	4.0		4.8		3.0		2.8		1.5	
Salinity (ppt)	0.66		1.11		3.15		3.29		3.57	
Temperature (C)	23.04		23.55		25.19		22.95		22.50	
Dissolved Oxygen (mg/L)	8.2		5.9		7.8		7.1		7.6	
Sediment Silt-Clay (%)	82.35		75.46		8.47		80.68		82.57	
Total Carbon (%)	2.75		4.40		0.28		2.52		2.48	
BENTHIC INDEX OF BIOTIC INTEGRITY										
B-IBI Score	2.67		1.00		3.00		3.00		3.00	
Condition	Marginal		Severely Degr.		Meets Goal		Meets Goal		Meets Goal	
# Attributes Scored	6		6		6		6		6	
	Value	Score	Value	Score	Value	Score	Value	Score	Value	Score
Shannon-Wiener Index	1.95		0.87		1.28		2.74		2.96	
Abundance (#/m2)	659	5	4226	1	25128	1	3204	5	6498	1
Deep Deposit Feeder Abundance (%)	72.41		94.09		8.14		33.33		20.63	
Oligo. Poll. Ind. Spp. Abund. (%)	72.41	3	99.46	1	10.40	5	41.13	3	39.16	3
Tolerance Score	9.46	1	9.72	1	6.03	3	7.52	3	7.11	3
Oligo. Poll. Sens. Spp. Abund. (%)	3.45	3	0.00	1	1.99	3	31.21	5	0.35	3
Tany./Chir. Abund. Ratio	100.00	1	80.00	1	0.00	5	100.00	1	22.34	3
Carnivore-Omnivore Abundance (%)	24.14	3	3.23	1	6.24	1	5.67	1	69.58	5
Deep Deposit Feeder Abundance (%)	72.41		94.09		8.14		33.33		20.63	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08410	08415	08423	08424	08425
Ameroculodes species complex			114	45	
Apocorophium lacustre (Epi.)		114			250
Carinoma tremaphoros					23
Chaoborus spp.		23			
Chiridotea almyra			318	23	
Chironomidae pupae *					114
Chironomus spp.		23			
Coelotanypus spp.	45	91		68	954
Coenagrionidae (Epi.)					23
Cricotopus bicinctus					91
Cricotopus/Isocladius grp.					45
Cryptochironomus spp.			91		
Cyathura polita	114		568	91	23
Dicrotendipes neomodestus					409
Edotea triloba (Epi.)			159		
Gammarus daiberi (Epi.)	159	273	45	45	114
Glyptotendipes spp.					45
Haemonais waldvogeli	45				
Hobsonia florida			1318	227	454
Hydroptila spp. (Epi.)					23
Imm. Tubificid w/ Cap. Chaete			45		
Imm. Tubificid w/o Cap. Chaete			68		
Imm. Tubificid w/o Cap. Chaete *	364	3658		364	636
Leptocheirus plumulosus		114		182	159
Limnodrilus hoffmeisteri	68	227		23	91
Littoridinops tenuipes (Epi.)					23
Marenzelleria viridis	23		182	977	23
Melita nitida (Epi.)					23
Mytilopsis leucophaeata (Epi.)			91		23
Polypedilum halterale group			545		
Procladius spp.					45
Rangia cuneata			19880	523	
Rheotanytarsus spp.			45		2454
Rhithropanopeus harrisi (Epi.)					23

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.					
Site	08410	08415	08423	08424	08425
<i>Streblospio benedicti</i>			23		
<i>Tanytarsus</i> spp.					318
<i>Tubificoides</i> spp.		91	1931	682	613
Total Abundance w/ Epifauna	818	4612	25424	3249	6998
Total Abundance w/o Epifauna	659	4226	25128	3204	6498
Number of Taxa w/ Epifauna	6	8	16	11	23
Number of Taxa w/o Epifauna	5	6	13	10	15
BENTHIC BIOMASS (Grams per sq. meter)					
Site	08410	08415	08423	08424	08425
<i>Ameroculodes</i> species complex			0.0114	0.0011	
<i>Apocorophium lacustre</i> (Epi.)		0.0011			0.0114
<i>Carinoma tremaphoros</i>					0.0068
<i>Chaoborus</i> spp.		0.0045			
<i>Chiridotea almyra</i>			0.0568	0.0011	
Chironomidae		0.0011	0.0227		0.1454
Chironomidae pupae *					0.0011
<i>Coelotanypus</i> spp.	0.0341	0.0091		0.0045	0.0841
Coenagrionidae (Epi.)					0.0045
<i>Cyathura polita</i>	0.0659		0.1045	0.2227	0.0114
<i>Edotea triloba</i> (Epi.)			0.0182		
<i>Gammarus</i> spp. (Epi.)	0.0454	0.0204	0.0068	0.0011	0.0023
<i>Hobsonia florida</i>			0.1022	0.0045	0.0204
<i>Hydroptila</i> spp. (Epi.)					0.0023
<i>Leptocheirus plumulosus</i>		0.0136		0.0023	0.0204
<i>Littoridinops tenuipes</i> (Epi.)					0.0045
<i>Marenzelleria viridis</i>	0.0545		0.0727	1.0542	0.0114
<i>Melita nitida</i> (Epi.)					0.0011
<i>Mytilopsis leucophaeata</i> (Epi.)			0.0182		0.0023
<i>Oligochaeta</i>	0.0307	0.6316	0.0011	0.0011	0.0409
<i>Rangia cuneata</i>			64.5203	132.0486	

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.					
Site	08410	08415	08423	08424	08425
Rhithropanopeus harrisii (Epi.)			0.0091		0.7679
Streblospio benedicti					
Tubificoides spp.		0.0045	0.0341	0.0011	0.0091
Total Biomass	0.2306	0.6861	64.9781	133.3425	1.1474
Total Biomass w/o Epifauna	0.1852	0.6646	64.9349	133.3414	0.3510

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

Site	08322	08323	08324	08325
Watershed	Western Tribs	Western Tribs	Western Tribs	Western Tribs
Habitat	Oligohaline	Oligohaline	Oligohaline	Oligohaline
Date	09/21/01	09/18/01	09/18/01	09/18/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT				
Depth (m)	1.0	2.5	2.3	1.0
Salinity (ppt)	1.52	3.89	2.95	1.43
Temperature (C)	23.47	22.04	21.68	21.67
Dissolved Oxygen (mg/L)	13.8	7.5	9.7	11.3
Sediment Silt-Clay (%)	92.60	92.14	96.05	87.30
Total Carbon (%)	3.86	2.54	2.59	2.89
BENTHIC INDEX OF BIOTIC INTEGRITY				
B-IBI Score	2.67	2.33	1.00	2.67
Condition	Marginal	Degraded	Severely Degr.	Marginal
# Attributes Scored	6	6	6	6
	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	1.93	1.31	1.32	2.84
Abundance (#/m2)	3522 3	3158 5	6248 1	6362 1
Deep Deposit Feeder Abundance (%)	54.19	76.26	63.27	73.57
Oligo. Poll. Ind. Spp. Abund. (%)	97.42 1	89.93 3	98.91 1	65.36 3
Tolerance Score	8.35 3	9.44 1	9.61 1	8.70 3
Oligo. Poll. Sens. Spp. Abund. (%)	1.29 3	9.35 3	0.00 1	0.36 3
Tany./Chir. Abund. Ratio	100.00 1	91.67 1	90.00 1	52.11 3
Carnivore-Omnivore Abundance (%)	35.48 5	8.63 1	4.36 1	25.36 3
Deep Deposit Feeder Abundance (%)	54.19	76.26	63.27	73.57

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)				
Site	08322	08323	08324	08325
Aulodrilus pigueti				364
Baetidae (Epi.)		45		91
Coelotanypus spp.	1250	250	204	613
Coenagrionidae (Epi.)				114
Cricotopus bicinctus				45
Cricotopus/Isocladius grp.				91
Cryptochironomus spp.		23	23	45
Cyathura polita			45	
Dero nivea				45
Dero spp.	45			
Dicrotendipes spp.				45
Gammarus daiberi (Epi.)				295
Gammarus spp. (Epi.)		23		
Gyraulus spp. (Epi.)				432
Heteromastus filiformis		23		
Imm. Tubificid w/ Cap. Chaete				136
Imm. Tubificid w/o Cap. Chaete		2363		
Imm. Tubificid w/o Cap. Chaete *	1454		3817	2545
Leptocheirus plumulosus	23	182	2022	45
Limnodrilus hoffmeisteri	409		136	227
Marenzelleria viridis	45	295		23
Microchironomus spp.				136
Nais variabilis				1363
Oecetis spp. (Epi.)				68
Parachironomus monochromus/tenuicad tus				318
Procladius spp.				227
Streblospio benedicti	295			
Tanytarsus spp.				45
Thienemanniella spp.				45
Tubificoides spp.		23		
Total Abundance w/ Epifauna	3522	3226	6248	7361
Total Abundance w/o Epifauna	3522	3158	6248	6362
Number of Taxa w/ Epifauna	6	9	5	22
Number of Taxa w/o Epifauna	6	7	5	17

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)				
Site	08322	08323	08324	08325
Baetidae (Epi.)		0.0068		0.0136
Chironomidae		0.0011	0.0011	0.0409
Coelotanypus spp.	0.2204	0.0772	0.0704	0.1431
Coenagrionidae (Epi.)				0.0159
Cyathura polita			0.0045	
Gammarus spp. (Epi.)		0.0068		0.0227
Gyraulid spp. (Epi.)				0.0114
Heteromastus filiformis		0.0045		
Leptocheirus plumulosus	0.0091	0.0318	0.4862	0.0045
Marenzelleria viridis	0.1999	0.4021		0.0204
Oecetis spp. (Epi.)				0.0023
Oligochaeta	0.5271	0.2590	0.2976	0.4499
Streblospio benedicti	0.0114			
Tubificoides spp.		0.0068		
Total Biomass	0.9679	0.7963	0.8600	0.7248
Total Biomass w/o Epifauna	0.9679	0.7827	0.8600	0.6589

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

Site	08118	08119	08120	08121	08122
Watershed	Potomac R	Potomac R	Potomac R	Potomac R	Potomac R
Habitat	Oligohaline	Oligohaline	Oligohaline	Oligohaline	Oligohaline
Date	09/17/01	09/17/01	09/17/01	09/17/01	09/17/01
Gear	Young Grab	Young Grab	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044	0.044	0.044
BOTTOM ENVIRONMENT					
Depth (m)	4.0	6.0	6.0	7.5	8.0
Salinity (ppt)	1.77	1.65	1.63	1.04	0.70
Temperature (C)	23.40	23.35	23.38	23.37	23.13
Dissolved Oxygen (mg/L)	8.3	7.7	8.0	6.5	7.5
Sediment Silt-Clay (%)	93.38	97.39	92.26	96.91	91.09
Total Carbon (%)	2.66	2.56	2.35	3.22	2.77
BENTHIC INDEX OF BIOTIC INTEGRITY					
B-IBI Score	2.33	2.67	3.00	2.00	1.67
Condition	Degraded	Marginal	Meets Goal	Severely Degr.	Severely Degr.
# Attributes Scored	6	6	6	6	6
	Value Score	Value Score	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.38	1.97	2.85	2.45	1.91
Abundance (#/m2)	3476 3	4112 1	3544 3	5794 1	11087 1
Deep Deposit Feeder Abundance (%)	36.60	4.42	25.64	75.69	93.24
Oligo. Poll. Ind. Spp. Abund. (%)	81.70 3	14.92 5	55.77 3	80.00 3	86.68 3
Tolerance Score	7.52 3	6.30 3	7.38 3	8.93 3	9.53 1
Oligo. Poll. Sens. Spp. Abund. (%)	1.96 3	55.25 5	28.85 5	7.45 3	1.43 3
Tany./Chir. Abund. Ratio	100.00 1	80.00 1	96.15 1	68.75 1	77.78 1
Carnivore-Omnivore Abundance (%)	10.46 1	7.18 1	21.79 3	6.27 1	2.05 1
Deep Deposit Feeder Abundance (%)	36.60	4.42	25.64	75.69	93.24

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)					
Site	08118	08119	08120	08121	08122
Ameroculodes species complex		23			
Apocorophium lacustre (Epi.)	341				
Aulodrilus pigueti	91	68	136		
Balanus improvisus (Epi.)	23				
Branchiura sowerbyi				841	523
Cassidinidea ovalis (Epi.)	159				
Chaoborus spp.					23
Coelotanypus spp.	136	91	545	250	159
Corbicula fluminea	1431	318	364	23	68
Cricotopus bicinctus					45
Cryptochironomus spp.		23		114	
Cyathura polita	227	182	182		
Dero nivea					613
Dero spp. *					341
Gammarus daiberi (Epi.)		23			
Haemonais waldvogeli				45	
Hirudinea (Epi.)		23		45	
Imm. Tubificid w/o Cap. Chaete *	818	45	682	2181	6884
Leptocheirus plumulosus		23	114	23	
Limnodrilus cervix					68
Limnodrilus hoffmeisteri	364	68	91	1318	1908
Marenzelleria viridis	68	2272	1022	432	159
Mytilopsis leucophaeata (Epi.)	23				
Polypedilum halterale group			23		
Procladius spp.			23		
Rangia cuneata	341		364	568	295
Rhithropanopeus harrisi (Epi.)		1000		23	
Total Abundance w/ Epifauna	4021	4158	3544	5862	11087
Total Abundance w/o Epifauna	3476	4112	3544	5794	11087
Number of Taxa w/ Epifauna	11	12	10	11	10
Number of Taxa w/o Epifauna	7	10	10	9	10

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)					
Site	08118	08119	08120	08121	08122
Ameroculodes species complex		0.0068			
Apocorophium lacustre (Epi.)	0.0091				
Balanus improvisus (Epi.)	0.3772				
Branchiura sowerbyi				1.3746	1.6540
Cassidinidea ovalis (Epi.)	0.0273				
Chaoborus spp.					0.0011
Chironomidae		0.0011	0.0011	0.0011	0.0011
Coelotanypus spp.	0.0114	0.0136	0.0318	0.0432	0.0250
Corbicula fluminea	47.7188	9.0153	13.8978	0.3749	9.6287
Cyathura polita	0.0818	0.1318	0.0068		
Gammarus spp. (Epi.)		0.0159			
Hirudinea (Epi.)		0.0182		0.0318	
Leptocheirus plumulosus		0.0068	0.0011	0.0023	
Marenzelleria viridis	0.0659	6.4525	2.6991	2.1720	0.3635
Mytilopsis leucophaeata (Epi.)	0.1227				
Oligochaeta	0.1136	0.0011	0.0023	0.6839	2.2321
Rangia cuneata	60.6192	202.8851	81.0013	244.3763	201.6627
Rhithropanopeus harrisii (Epi.)				1.7994	
Total Biomass	109.1469	218.5482	97.6415	250.8595	215.5684
Total Biomass w/o Epifauna	108.6107	218.5141	97.6415	249.0282	215.5684

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

Site	08223	08224	08225
Watershed	Patuxent R	Patuxent R	Patuxent R
Habitat	Oligohaline	Oligohaline	Oligohaline
Date	09/07/01	09/21/01	09/21/01
Gear	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044
BOTTOM ENVIRONMENT			
Depth (m)	2.0	3.4	3.0
Salinity (ppt)	3.85	4.83	0.53
Temperature (C)	25.99	22.35	21.40
Dissolved Oxygen (mg/L)	6.5	5.1	5.9
Sediment Silt-Clay (%)	96.01	90.15	59.01
Total Carbon (%)	3.08	3.54	3.39
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score	1.67	2.60	1.33
Condition	Severely Degr.	Degraded	Severely Degr.
# Attributes Scored	6	5	6
	Value Score	Value Score	Value Score
Shannon-Wiener Index	1.14	2.27	2.08
Abundance (#/m2)	8429 1	1318 5	4499 1
Deep Deposit Feeder Abundance (%)	16.17	75.86	94.95
Oligo. Poll. Ind. Spp. Abund. (%)	99.19 1	93.10 3	90.40 3
Tolerance Score	6.20 3	9.80 1	9.62 1
Oligo. Poll. Sens. Spp. Abund. (%)	0.54 3	1.72 3	0.00 1
Tany./Chir. Abund. Ratio	100.00 1	0.00	85.71 1
Carnivore-Omnivore Abundance (%)	1.08 1	3.45 1	4.04 1
Deep Deposit Feeder Abundance (%)	16.17	75.86	94.95

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)			
Site	08223	08224	08225
Boccardiella ligERICA		23	
Chironomus spp.			23
Coelotanypus spp.	68		23
Cyathura polita	23	45	23
Dero spp.			45
Gammarus daiberi (Epi.)	114	1022	
Imm. Tubificid w/ Cap. Chaete			1500
Imm. Tubificid w/o Cap. Chaete *		636	2045
Leptocheirus plumulosus	636	136	
Limnodrilus hoffmeisteri		182	273
Limnodrilus udekemianus			45
Marenzelleria viridis	45	23	
Melita nitida (Epi.)	114		
Nais variabilis			318
Pisidium spp.			45
Procladius spp.			114
Quistadrilus multisetosus			45
Streblospio benedicti	6293	91	
Synidotea laticauda (Epi.)		23	45
Tubificoides spp.	1363	182	
Total Abundance w/ Epifauna	8656	2363	4544
Total Abundance w/o Epifauna	8429	1318	4499
Number of Taxa w/ Epifauna	8	9	12
Number of Taxa w/o Epifauna	6	7	11
BENTHIC BIOMASS (Grams per sq. meter)			
Site	08223	08224	08225
Boccardiella ligERICA		0.0011	
Chironomidae			0.0011
Coelotanypus spp.	0.0023		0.0011
Cyathura polita	0.0068	0.0068	0.0011

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.			
Site	08223	08224	08225
Gammarus spp. (Epi.)	0.0068	0.0659	
Leptocheirus plumulosus	0.1636	0.0523	
Marenzelleria viridis	0.1500	0.0364	
Melita nitida (Epi.)	0.0011		
Oligochaeta		0.0011	0.7361
Pisidium spp.			0.0045
Streblospio benedicti	0.3999	0.0023	
Synidotea laticauda (Epi.)		0.2204	0.0954
Tubificoides spp.	0.0068	0.0068	
Total Biomass	0.7373	0.3931	0.8395
Total Biomass w/o Epifauna	0.7293	0.1068	0.7441

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

Site	08621	08622	08627
Watershed	Upper Bay	Upper Bay	Upper Bay
Habitat	Oligohaline	Oligohaline	Oligohaline
Date	09/11/01	09/11/01	09/18/01
Gear	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044
BOTTOM ENVIRONMENT			
Depth (m)	5.0	4.0	3.5
Salinity (ppt)	4.42	0.75	0.95
Temperature (C)	24.96	25.10	21.50
Dissolved Oxygen (mg/L)	6.9	7.0	7.0
Sediment Silt-Clay (%)	59.63	48.32	93.37
Total Carbon (%)	1.98	2.54	2.43
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score	4.00	2.00	2.00
Condition	Meets Goal	Severely Degr.	Severely Degr.
# Attributes Scored	6	6	6
	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.22	2.10	2.29
Abundance (#/m2)	3340 5	6589 1	4658 1
Deep Deposit Feeder Abundance (%)	13.61	58.62	64.39
Oligo. Poll. Ind. Spp. Abund. (%)	14.29 5	76.21 3	98.54 1
Tolerance Score	6.14 3	8.59 3	9.50 1
Oligo. Poll. Sens. Spp. Abund. (%)	43.54 5	5.17 3	0.00 1
Tany./Chir. Abund. Ratio	50.00 3	100.00 1	20.00 3
Carnivore-Omnivore Abundance (%)	16.33 3	6.90 1	35.61 5
Deep Deposit Feeder Abundance (%)	13.61	58.62	64.39

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BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)			
Site	08621	08622	08627
Ameroculodes species complex	23		
Balanus improvisus (Epi.)	318		
Boccardiella ligerica		45	
Branchiura sowerbyi			114
Carinoma tremaphoros	68		
Chaoborus spp.			45
Chironomus spp.			1272
Coelotanypus spp.		45	273
Corbicula fluminea		1091	
Cryptochironomus spp.	23		
Cyathura polita	432	386	23
Edotea triloba (Epi.)	23		
Gammarus daiberi (Epi.)	45		
Heteromastus filiformis			23
Hobsonia florida	136		
Ilyodrilus templetoni			136
Imm. Tubificid w/ Cap. Chaete *			364
Imm. Tubificid w/o Cap. Chaete *		3499	2136
Limnodrilus cervix			45
Limnodrilus hoffmeisteri		364	182
Marenzelleria viridis	1454	341	
Melita nitida (Epi.)		68	
Procladius spp.	23	23	45
Rangia cuneata	727	795	
Rhithropanopeus harrisi (Epi.)		68	
Tubificoides spp.	454		
Total Abundance w/ Epifauna	3726	6725	4658
Total Abundance w/o Epifauna	3340	6589	4658
Number of Taxa w/ Epifauna	12	10	10
Number of Taxa w/o Epifauna	9	8	10

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)			
Site	08621	08622	08627
Ameroculodes species complex	0.0011		
Balanus improvisus (Epi.)	0.4294		
Boccardiella ligERICA		0.0045	
Branchiura sowerbyi			0.0159
Carinoma tremaphoros	0.0591		
Chaoborus spp.			0.0091
Chironomidae	0.0182	0.0011	1.1360
Coelotanypus spp.		0.0091	0.0954
Corbicula fluminea		62.8594	
Cyathura polita	0.2113	0.2181	0.0011
Edotea triloba (Epi.)	0.0011		
Gammarus daiberi (Epi.)	0.0091		
Heteromastus filiformis			0.0159
Hobsonia florida	0.0011		
Marenzelleria viridis	1.7494	0.2113	
Melita nitida (Epi.)		0.0091	
Oligochaeta		0.1954	0.1977
Rangia cuneata	75.5917	234.0069	
Rhithropanopeus harrisii (Epi.)		0.4476	
Tubificoides spp.	0.0068		
Total Biomass	78.0784	297.9626	1.4711
Total Biomass w/o Epifauna	77.6388	297.5059	1.4711

*Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

Site	08123	08124	08125
Watershed	Potomac R	Potomac R	Potomac R
Habitat	Freshwater	Freshwater	Freshwater
Date	09/17/01	09/17/01	09/17/01
Gear	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044
BOTTOM ENVIRONMENT			
Depth (m)	4.5	7.5	15.5
Salinity (ppt)	0.31	0.14	0.15
Temperature (C)	22.84	23.54	23.24
Dissolved Oxygen (mg/L)	6.9	8.9	8.7
Sediment Silt-Clay (%)	95.98	82.00	49.15
Total Carbon (%)	2.67	3.06	3.80
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score	2.50	3.50	3.00
Condition	Degraded	Meets Goal	Meets Goal
# Attributes Scored	4	4	4
	Value Score	Value Score	Value Score
Shannon-Wiener Index	2.96	3.70	2.35
Abundance (#/m2)	5180 3	9270 1	12178 1
Deep Deposit Feeder Abundance (%)	72.81 3	50.98 5	63.81 5
T.F. Poll. Ind. Spp. Abund. (%)	49.12 3	19.61 5	59.70 3
Tolerance Score	9.41 1	8.07 3	9.15 3
Limnodrilus Abundance (%)	49.12	19.61	59.70
Carnivore-Omnivore Abundance (%)	22.37	28.68	12.13

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)			
Site	08123	08124	08125
Aulodrilus pigueti		364	136
Branchiura sowerbyi	500		
Campeloma decisum (Epi.)		341	
Chaoborus spp.	136		
Chironomidae pupae	23		
Chironomidae pupae *		68	
Chironomus spp.	727		
Coelotanypus spp.	182	1204	591
Coenagrionidae (Epi.)		45	
Corbicula fluminea		341	750
Cryptochironomus spp.	91	45	91
Cyathura polita		613	454
Dero nivea	91	727	
Dero spp.			45
Dero spp. *	273	454	
Gammarus daiberi (Epi.)		341	4294
Glyptotendipes spp.		409	
Goniobasis virginica (Epi.)		182	204
Haemonais waldvogeli		45	
Hirudinea (Epi.)		45	
Hydrobiidae (Epi.)			114
Ilyodrilus templetoni	136		
Imm. Tubificid w/ Cap. Chaete		136	273
Imm. Tubificid w/ Cap. Chaete *	227		
Imm. Tubificid w/o Cap. Chaete *	2045	1545	6362
Laevapex fuscus			45
Limnodrilus hoffmeisteri	500	273	909
Lymnaeidae			23
Marenzelleria viridis	159		
Musculium transversum	68	1545	2181
Nais variabilis		772	
Oecetis spp. (Epi.)			23
Parachironomus frequens grp.		91	
Parachironomus monochromus/tenuicadus		91	
Physella spp. (Epi.)		23	23
Pisidium spp.	23		

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter) - Contd.			
Site	08123	08124	08125
Polypedilum halterale group		45	204
Procladius spp.		91	45
Quistadrilus multisetosus		227	45
Stictochironomus caffarius			23
Stylaria lacustris		182	
Turbellaria (Epi.)		68	1159
Valvata spp. (Epi.)		114	23
Total Abundance w/ Epifauna	5180	10428	18017
Total Abundance w/o Epifauna	5180	9270	12178
Number of Taxa w/ Epifauna	12	26	22
Number of Taxa w/o Epifauna	12	18	15
BENTHIC BIOMASS (Grams per sq. meter)			
Site	08123	08124	08125
Branchiura sowerbyi	1.0792		
Campeloma decisum (Epi.)		46.5147	
Chaoborus spp.	0.0091		
Chironomidae	0.9997	0.1727	0.0011
Chironomidae pupae	0.0045		
Chironomidae pupae *		0.0204	
Coelotanypus spp.	0.0818	0.1772	0.1045
Coenagrionidae (Epi.)		0.0091	
Corbicula fluminea		46.5147	177.2978
Cyathura polita		0.5907	0.5521
Gammarus spp. (Epi.)		0.0750	2.5378
Goniobasis virginica (Epi.)		10.2172	12.4892
Hirudinea (Epi.)		0.4453	
Hydrobiidae (Epi.)			0.0250
Laevapex fuscus			0.0273
Lymnaeidae			0.0091
Marenzelleria viridis	0.6975		
Musculium transversum	0.0045	0.3044	0.4112
Oecetis spp. (Epi.)			0.0091

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter) - Contd.			
Site	08123	08124	08125
Oligochaeta	0.6089	0.4976	0.8225
Physella spp. (Epi.)		0.0454	0.0182
Pisidium spp.	0.0045		
Turbellaria (Epi.)		0.0023	0.1977
Valvata spp. (Epi.)		0.0045	0.0023
Total Biomass	3.4898	105.5912	194.5048
Total Biomass w/o Epifauna	3.4898	48.2777	179.2256

* Indicates taxa is skipped in taxon counts

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

Site	08623	08624	08625
Watershed	Upper Bay	Upper Bay	Upper Bay
Habitat	Freshwater	Freshwater	Freshwater
Date	09/18/01	09/18/01	09/18/01
Gear	Young Grab	Young Grab	Young Grab
Sampled Area (sq.m)	0.044	0.044	0.044
BOTTOM ENVIRONMENT			
Depth (m)	2.0	2.3	2.0
Salinity (ppt)	0.18	0.37	0.17
Temperature (C)	22.34	21.21	20.81
Dissolved Oxygen (mg/L)	10.0	11.5	9.4
Sediment Silt-Clay (%)	4.24	7.01	5.17
Total Carbon (%)	0.62	0.72	0.66
BENTHIC INDEX OF BIOTIC INTEGRITY			
B-IBI Score	3.50	3.00	4.50
Condition	Meets Goal	Meets Goal	Meets Goal
# Attributes Scored	4	4	4
	Value Score	Value Score	Value Score
Shannon-Wiener Index	1.78	3.07	3.39
Abundance (#/m2)	6634 1	6134 1	4453 3
Deep Deposit Feeder Abundance (%)	78.77 3	50.74 5	32.65 5
T.F. Poll. Ind. Spp. Abund. (%)	4.11 5	40.00 3	9.18 5
Tolerance Score	6.18 5	8.45 3	7.67 5
Limnodrilus Abundance (%)	4.11	40.00	9.18
Carnivore-Omnivore Abundance (%)	17.81	20.37	27.04

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC ABUNDANCE (per sq. meter)			
Site	08623	08624	08625
Ablabesmyia mallochi			45
Caenis spp. (Epi.)			23
Chironomidae pupae *			114
Chironomus spp.		318	
Cladotanytarsus spp.	409	91	227
Corbicula fluminea	204	1431	568
Cryptochironomus spp.		91	45
Cyathura polita	545	386	91
Dicrotendipes spp.			45
Gammarus daiberi (Epi.)	68		704
Glyptotendipes spp.		91	
Gyraulus spp. (Epi.)			250
Hyalella azteca			1227
Imm. Tubificid w/ Cap. Chaete			182
Imm. Tubificid w/o Cap. Chaete	273		
Imm. Tubificid w/o Cap. Chaete *		1545	318
Leptocheirus plumulosus		45	
Limnodrilus hoffmeisteri		909	91
Marenzelleria viridis		23	
Musculium transversum	23	273	
Nais variabilis	4544	591	
Parachironomus monochromus/tenuicad tus	136		
Piguetiella michiganensis	318		
Polypedilum halterale group	91		364
Potamothrix spp.	91		364
Procladius spp.		136	136
Stylaria lacustris			500
Tanytarsus spp.		136	136
Tubificoides spp.		68	
Turbellaria (Epi.)			250
Total Abundance w/ Epifauna	6702	6134	5680
Total Abundance w/o Epifauna	6634	6134	4453
Number of Taxa w/ Epifauna	11	14	18
Number of Taxa w/o Epifauna	10	14	14

Continued . . .

BOTTOM ENVIRONMENT AND BENTHOS, SUMMER 2001 (CRUISE 02 :2001/2002) BAY-WIDE RANDOM SITES

BENTHIC BIOMASS (Grams per sq. meter)			
Site	08623	08624	08625
Caenis spp. (Epi.)			0.0023
Chironomidae	0.0136	0.0727	0.0454
Chironomidae pupae *			0.0114
Corbicula fluminea	0.4817	3.3376	1.9516
Cyathura polita	0.2136	0.1409	0.0409
Gammarus spp. (Epi.)	0.0068		0.0682
Gyraulus spp. (Epi.)			0.0068
Hyalabella azteca			0.0772
Leptocheirus plumulosus		0.0045	
Marenzelleria viridis		0.0250	
Musculium transversum	0.0045	0.0023	
Oligochaeta	0.0932	0.1954	0.1749
Tubificoides spp.		0.0011	
Turbellaria (Epi.)			0.0227
Total Biomass	0.8134	3.7795	2.4015
Total Biomass w/o Epifauna	0.8066	3.7795	2.3015

* Indicates taxa is skipped in taxon counts