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THE MARINE ENVIRONMENT
IN LOS ANGELES AND LONG BEACH HARBORS
DURING 1978

APPENDIX B
BIOLOGICAL DATA FOR THE PORTS OF LOS ANGELES AND LONG BEACH
DECEMBER 1977 - DECEMBER 1978

BY:

HARBORS ENVIRONMENTAL PROJECTS
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MARINE STUDIES OF SAN PEDRO BAY, CALIFORNIA PART 17

JUNE 1980

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ZOOPLANKTON ORGANISMS

LOS ANGELES AND LONG BEACH HARBORS

DECEMBER 1977 - DECEMBER 1978

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A1

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	15		89			29	9	4		2	13	11	33
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprellidae													
Cirripedia	76	17	594		12	127	53	17	20	30	87		314
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	54		36		7	88	9	4	20	17	2412	56	33
<i>Evadne spinifera</i>	31	11				20					27	11	11
<i>Penilia avirostris</i>	1630	62	83		227	49			6	89	732		1177
<i>Podon polyphemoides</i>								29	274	40	74	11	154
Copepoda calanoida	23	34	30			430	748	25	117	2	7	11	
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>													
<i>Acartia clausi</i>						20							
<i>Acartia danae</i>	8	6								1			
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	1064	170	166		310	1300	1214	285	821	320	3809	1241	968
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>			12				9						
<i>Calanus tenuicornis</i>							968	17	13			79	55
<i>Calanus</i> spp.									6				
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>			6										
<i>Calocalanus</i> spp.			6										
<i>Calocalanus</i> spp.		6					9						
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>		6	24										11
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													11
<i>Candacea</i> spp.													
<i>Candacea</i> spp.		6											

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A1

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda calanoida (cont.)													
Eucalanidae													
<i>Eucalanus elongatus</i>													
<i>Eucalanus</i> spp.													
<i>Rhincalanus nasutus</i>	8		6		29		4	26		7			
Lucicutiidae													
<i>Lucicutia flavicornis</i>													11
Metridiidae													
<i>Pleuromamma borealis</i>													
<i>Pleuromamma gracilis</i>													
<i>Pleuromamma</i> spp.													
Paracalanidae													
<i>Paracalanus parvus</i>	1079	335	648	204	782	1329	281	240	454	947	2008	1006	
Pontellidae													
<i>Labidocera jollae</i>	31		6	28	88	62	12			40	158	16	
<i>Labidocera trispinosa</i>													
<i>Pontellopsis occidentalis</i>		6											
Pseudocalanidae													
<i>Clausocalanus arcuicornis</i>		11											
<i>Clausocalanus farrani</i>		17									11		
<i>Clausocalanus furcatus</i>	176	358	83	2				78	116	7			
<i>Clausocalanus jobei</i>		17	12					6		20			
<i>Clausocalanus lividus</i>		6				1		13					
<i>Clausocalanus mastigophorus</i>		6											
<i>Clausocalanus parapergens</i>		23											
<i>Clausocalanus paululus</i>													
<i>Clausocalanus pergens</i>			6							7			
<i>Clausocalanus</i> spp.	31	1601	107	9			4	124	84	40	1252	6	
<i>Ctenocalanus vanus</i>						10		20					
Pseudocyclopidae													
<i>Pseudocyclops bilobatus</i>													
Pseudodiaptomidae													
<i>Pseudodiaptomus euryhalinus</i>													
Temoridae													
<i>Temora discaudata</i>	8	6											
Tortanidae													
<i>Tortanus discaudatus</i>			12		7		4			27			6
Copepoda caligoida													

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A1

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)			48						20				6
Caridea (zoa)													
Macrura (zoa)													
Penaeida (zoa)						20	18			5			
Euphausiacea (calyptosis)													
Isopoda											7		
Mysidacea													
Ostracoda			89								7		
BRACHIOPODA (Larvae)													
BRYOZOA (cyphonautes)	15	199	30	5	49	26	42	59	35	81	158	16	
CNIDARIA													
Hydrozoa (medusae)		28	83	60	49	88	58	652	7	13	34	16	
Siphonophora							4						
Scyphozoa													
CHAETOGNATH													
CHORDATA	31	23	18	12	20	185	17	20	5	235			82
ASCIDIACEA (Larvae)													
Larvacea	543	96	529	86	1017	1232	151	293	67	430	1083	390	6
<i>Oikopleura</i>													
Thaliacea	176	323	24	357	10	334	8	13	12	195			330
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)		11	66	16	10				6		11	16	
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)	8	265			10	18			6				
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)		28				9							38
Ophiuroidea (ophiopluteus)		81	42			18			6	20			
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	23	17	149	12	98	26	6		6	87	68	33	
Pteropoda		6				9							
Pelecypoda (veliger)	8		54	2			12			27	22		
NEMATODA													
NEMERTEA (pillidium)													
PHORONIDA (actinotroch)		6				18							

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A1

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae													
<i>Corycaeus amazonicus</i>					16		9		6	5		11	11
<i>Corycaeus anglicus</i>	298	40	143		65	244	994	88	124	12	685	733	286
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>					32	117						11	
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>													
<i>Oithona plumifera</i>	15	11	12		35		9		32			56	94
<i>Oithona similis</i>	23											11	
<i>Oithona spinirostris</i>						10							
<i>Oithona</i> spp.		6	24		56	29		17			27		11
Oncaeidae													
<i>Oncaea conifera</i>							18						
<i>Oncaea dentipes</i>							9						
<i>Oncaea media</i>	8	6											
<i>Oncaea mediterranea</i>	8						62						
<i>Oncaea minuta</i>		6											
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.						10	26	50	72	15	7		28
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													11
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>	8		6			20	18						6
Copepoda monstrilloidea													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoaea)													
<i>Anomura-porcellanidae</i> (zoaea)													
<i>Brachyura</i> (zoaea, megalopa)	8	11	77		18	29	18	4			13		16

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A2

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	12		113	13		11	11		4				36
ARTHOPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprellidae													
Cirripedia	100		654	60	49	518	53	339	202	52	39	202	225
(nauplius, cypris)													
Cladocera													
<i>Eucadne nordmanni</i>	75		12	15	15	857	11	18	18	96	178	72	126
<i>Eucadne spinifera</i>		3	6										22
<i>Penilia avirostris</i>	1169	138	63	6	220	11	5	148	224	13	178	750	575
<i>Podon polyphemoides</i>		3					5			934	340		373
Copepoda calanoida		11	79	2	15	192	75		4		6		
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>				1	10				4				
<i>Acartia clausi</i>													
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	2816	162	333	82	900	3768	3257	6934	1654	588	2256	1688	1261
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>							75	127	18			72	36
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>									4				4
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>		8											3
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A2

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda calanoida (cont.)													
Eucalanidae													
<i>Eucalanus elongatus</i>													
<i>Eucalanus</i> spp.													
<i>Rhinocalanus nasutus</i>											6		
Lucicutiidae													
<i>Lucicutia flavicornis</i>									4				
Metridiidae													
<i>Pleuromma borealis</i>													
<i>Pleuromma gracilis</i>													
<i>Pleuromma</i> spp.													
Paracalanidae													
<i>Paracalanus parvus</i>	1006	355	949	141	543	1162	198	1400	356	148	607	1673	530
Pontellidae													
<i>Labidocera jollae</i>		22				147							
<i>Labidocera trispinosa</i>	25		6	40	78		43	85	26	5	50	43	4
<i>Pontellopsis occidentalis</i>													
Pseudocalanidae													
<i>Clausocalanus arcuicornis</i>													
<i>Clausocalanus furcatus</i>		50	55	19						6			4
<i>Clausocalanus jobei</i>			3		1	11							9
<i>Clausocalanus lividus</i>													
<i>Clausocalanus mastigophorus</i>													
<i>Clausocalanus parvpergens</i>													
<i>Clausocalanus paululus</i>												14	
<i>Clausocalanus pergens</i>													
<i>Clausocalanus</i> spp.	38	374	68		5				44	5	6	14	27
<i>Ctenocalanus vanus</i>													4
Pseudocyclopidae													
<i>Pseudocyclops bilobatus</i>													
Pseudodiaptomidae													
<i>Pseudodiaptomus euryhalinus</i>													
Temoridae													
<i>Temora discandata</i>			6										20
Tortanidae													
<i>Tortanus discandatus</i>			6										1
Copepoda caligoida													

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PLANKTON DATA													
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeiidae													
<i>Corycaeus amazonicus</i>		6	19	1	39	11			12	5	17		
<i>Corycaeus anglicus</i>	553	50	132	11	108	203	118	254	35	5	50	707	251
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.		13		2	34	158							
<i>Farranula curta</i>		6											
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>	25					11		64					
<i>Oithona plumifera</i>	12				88				4	3	6		9
<i>Oithona similis</i>		8											
<i>Oithona spinirostris</i>				1									
<i>Oithona</i> spp.	12	19	69					42	31		6		45
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.			12										
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstrilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	38	25	132	40	112	45	27	42	22	5	14	14	45

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A2

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)			25	16	5	11	5	64	4				13
Macura (zoea)													
Penaeida (zoea)						11							
Euphausiacea (calyptosis)													
Isopoda													
Myxidacea				14					4				
Ostracoda			82	1				21			6		
BRACHIOPODA (larvae)		3											
BRYOZOA (cyphonautes)			188	6		45	27	42		5	39	173	49
CNIDARIA													
Hydrozoa (medusae)		28			205		11	105	145	5		43	4
Siphonophora			63					21					4
Scyphozoa													
CHAETOGNATH													
CHORDATA													
Ascidiacea (larvae)	38	38	12	7	54	45	11	85	9	3	61	245	90
Larvacea													
<i>Oikopleura</i>	251	99	1351	6	147	632	198	254	242	44	128	58	458
<i>Thaliacea</i>													
<i>Doliolum</i>	190	33	31		284		38				22	418	
Vertebrata													
Osteichthys (eggs, larvae)													
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)	12												18
Echinoidea (echinopluteus)	25									5			
Holothuroidea (auricularia)		44											
Ophiuroidea (ophiopluteus)	25												
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	25	6	126	5	68	45	32	85				29	54
Pteropoda													
Pelecypoda (veliger)			6	1		11		21					
NEMATODA													
NEMERTEA (pillidium)													
PHORONIDA (actinotroch)													5

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												STATION A3
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
PLANKTON DATA	166	77	5	6	3	10	1	1	46	1	46	16	
ANNELIDA POLYCHAETA													
ARTHOPODA CRUSTACEA													
Amphipoda													
Gammaridae											1		
Caprellidae													
Cirripedia	46	21	760	407	68	88	10	28	6	46	5	463	72
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	382			11	5	220	1				40	116	8
<i>Evadne spinifera</i>						6							
<i>Penilia avirostris</i>	2246	183	63	38	18	11	2				136	2779	224
<i>Podon polyphemoides</i>	23	4					6	171	64	46	110	69	848
Copepoda calanoida	35	12	10			27	1	21					
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>					5				1				162
<i>Acartia clausi</i>													
<i>Acartia danae</i>	12												
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	498	614	1540	957	1494	1458	271	1369	8	5887	163		5419
Aetideidae													592
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>												23	8
<i>Calanus tenuicornis</i>							2	7					
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>		4											
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													10

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A3

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae													
<i>Corycaeus amazonicus</i>		4	21		5		1	17	2	15		23	8
<i>Corycaeus anglicus</i>	289	21	126	126	38						10	695	448
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.		46			9	44							
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>						6		4					
<i>Oithona oculata</i>													
<i>Oithona plumifera</i>	35	4	10				2		3	15			48
<i>Oithona similis</i>		4											
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.	23		31	6	9		5	17			4	46	
Oncaeidae													
<i>Oncaea conifera</i>							1						
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>	12												
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>		4	10	11			4	7		15	2		8
<i>Oncaea</i> spp.	46		21				1						8
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													8
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstrilloida													
Monstrillidae													
Cumacea							1						
Decapoda													
Anomura (zoea)							1						
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)		8		72	92	11	27	10	1	30	1		8

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A3

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHOPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)													
Macura (zoea)							5	7					1
Panaeida (zoea)													
Euphausiacea (calyptosis)													
Isopoda							1						
Mysidacea				16			2						
Ostracoda			31					10					
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)	23		84	16	5	11	12	66			37	162	
CNIDARIA													
Hydrozoa (medusae)	23	13	10	50	55	16	3		10	15		69	8
Siphonophora			42										8
Scyphozoa													
CHAETOGNATH	35	29	21	33	14	6	1	34	1		2	1482	112
CHORDATA													
Ascidiacea (larvae)													
Larvacea	394	116	1393	786	46	566	10	105	4	30	7	324	616
<i>Oikopleura</i>													
Thaliacea	382	17	52		73	6						810	32
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)		8	10	28		6							8
CTENOPHORA													16
ECHINODERMATA													
Asteroidea (bipinnaria, brachiolaria)	12												
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)	35	8							2			23	
Ophiuroidea (ophiopluteus)													
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)			94	22	5		2	14				23	16
Pteropoda													
Pelecypoda (veliger)		4	10				7						
NEMATODA							2						
NEMERTEA (pillidium)													
PHORONIDA (actinotroch)							1						

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												STATION A4
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
PLANKTON DATA	7		70	28	31		2	18		2	6		3
ANNELIDA POLYCHAETA													
ARTHOPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprellidae													
Cirripedia	33	2	431	115	505	2	2	275	48	15	165	9	69
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	11	2		2	15	1	1	14	14	15	22	18	3
<i>Evadne spinifera</i>		3						1				18	
<i>Penilia avirostris</i>	33	70	53	10	15			1	1	4	25	950	229
<i>Fodon polyphemoides</i>	7	4				4	4	46	154	365	520	9	55
Copepoda calanoida	2	3		2		1	1	9	1				
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>		1		80	15								53
<i>Acartia clausi</i>													
<i>Acartia danae</i>	2												
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	51	122	3168	300	7086	70	5069	54	458	1735		1144	764
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>													
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.	1												
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>	1												
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

PLANKTON DATA	December 1977-December 1978												STATION A4			
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
ARTHROPODA CRUSTACEA (cont.)																
Copepoda cyclopoida																
Corycaeidae																
<i>Corycaeus amazonicus</i>	2		18						2							
<i>Corycaeus anglicus</i>	26	15	44	83		9	18	3		22	220		72			
<i>Corycaeus flaccus</i>																
<i>Corycaeus giesbrechti</i>																
<i>Corycaeus</i> spp.					15											
<i>Farranula curta</i>		4														
Oithonidae																
<i>Oithona nana</i>																
<i>Oithona oculata</i>	7															12
<i>Oithona plumifera</i>		3	18	2												12
<i>Oithona similis</i>		5						1	4		9					
<i>Oithona spinirostris</i>																
<i>Oithona</i> spp.	4	14	9				55	1		6						32
Oncaeidae																
<i>Oncaea conifera</i>																
<i>Oncaea dentipes</i>																
<i>Oncaea media</i>																
<i>Oncaea mediterranea</i>																
<i>Oncaea minuta</i>																
<i>Oncaea venusta</i>																
<i>Oncaea</i> spp.			35			2					9		6			
Copepoda harpacticoida																
Ectinosomidae																
<i>Microsetella norvegica</i>																
<i>Microsetella rosea</i>																
Pseudo-pelidiidae																
<i>Clytemnestra rostrata</i>																
<i>Clytemnestra scutellata</i>																
Tachidiidae																
<i>Euterpina acutifrons</i>	4	2	18													9
Copepoda monstrilloida																
Monstrillidae																
Cumacea																
Decapoda																
Anomura (zoaea)																
<i>Anomura-porcellanidae</i> (zoaea)																
<i>Brachyura</i> (zoaea, megalopa)	12		88	40	352	20	46	4	2	25						6

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A4

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)				4	31		2	9		2	11		
Macura (zoea)			44										3
Panaeida (zoea)													
Euphausiacea (calyptosis)													
Isopoda													
Mysidacea				10				9					
Ostracoda			88	2									
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)		12	35	15	46		5	73	1		11	176	20
CNIDARIA													
Hydrozoa (medusae)	40	19		47	61		1	55	4	2	6		6
Siphonophora			18										
Scyphozoa													
CHAETOGNATH	2	6	26	6	46		1	18		2	3	290	43
CHORDATA													
Ascidiacea (larvae)							2	9	3		52		12
Larvacea	240	121	1214	539	76		19	27	17	18	60	35	391
<i>Oikopleura</i>													
Thaliacea	13	6	9	2			2					53	23
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)		1	26	13						1	2	6	
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)										2			
Holothuroidea (auricularia)		6											
Ophiuroidea (ophiopluteus)							1						
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	4		53	4	31								23
Pteropoda													
Pelecypoda (veliger)		1											
NEMATODA													
NEMERTEA (pillidium)							1						3
PHORONIDA (actinotroch)													

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A7

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA			214	130		26	4	2	3	3			4
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae										11			
Caprellidae										55			
Cirripedia	3	2	302	120	8	110	21	4	38	11	19	13	37
(nauplius, cypris)													
Cladocera													
<i>Evadne noronhai</i>	8	2		50	6	63				3	55		16
<i>Evadne spinifera</i>				10					1				4
<i>Penilia avirostris</i>	52	39	6	90	3						201	88	131
<i>Podon polyphemoides</i>							4	44	45	401	321	2	222
Copepoda calanoida		6	12			36	4	4	1				
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>													24
<i>Acartia clausi</i>								110			11	2	
<i>Acartia danae</i>													
<i>Acartia negligens</i>		3											
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	492	188	873	520	536	655	376	59	88	979	132		158
Aetideidae													
<i>Aetideus armatus</i>													44
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>						16	21					2	
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.									1				
Ischnocalanus tenuis													
Mecynocera clausi													25
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PLANKTON DATA													
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae						84							
<i>Corycaeus amazonicus</i>												2	
<i>Corycaeus anglicus</i>	8	7	56	50		110	104	2	7	8	8	51	71
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>		1											
Oithonidae													
<i>Oithona nama</i>													
<i>Oithona oculata</i>	44			10									
<i>Oithona plumifera</i>		1	10										2
<i>Oithona similis</i>		1			3	5	2			11			
<i>Oithona spinirostris</i>							4						
<i>Oithona</i> spp.		13	25			5		2			12		2
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.			6				4	2	4	3	2		2
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstrilloida													
Monstrillidae													
<i>Euterpina acutifrons</i>		1	12			16							3
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)												3	
Brachyura (zoea, megalopa)		9		20	38	105	13					1	2
Brachyura (zoea, megalopa)										8	52		

December 1977-December 1978

STATION A7

PLANKTON DATA

ARTHROPODA CRUSTACEA (cont.)

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A7

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)			6	10		16			4	25	2		
Macura (zoea)													
Panaeida (zoea)													
Euphausiacea (calyptosis)						16							
Isopoda													
Mysidacea													
Ostracoda			144	3			4						
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)		9	100	60	28	5	11	2	4	165	59	4	
CNIDARIA													
Hydrozoa (medusae)		13	50	40	6	68	.2		11		2	2	
Siphonophora			38										
Scyphozoa													
CHAETOGNATH	3	7	88		131	23		6	5	3	9	23	
CHORDATA													
Ascidiacea (larvae)													
Larvacea	19	152	993	2950	28	676	70	4	81	60	12	2	305
<i>Oikopleura</i>													
Thaliacea		2	6		135	10			1		112	41	
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)		3	56		5	2							
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)													4
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)	3												
Ophiuroidea (ophiopluteus)													
MOLLUSCA									3				
Cephalopoda													
Octopoda													
Gastropoda (veliger)		31				16	8		1	3			2
Pteropoda													
Pelecypoda (veliger)													
NEMATODA													
NEMERTEA (pilidium)													
PHORONIDA (actinotroch)													4

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												STATION A8
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
PLANKTON DATA	5	2	54	112	18	35		11	7		3	16	37
ANNELIDA POLYCHAETA													
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae							3				1		7
Caprellidae									6			2	
Cirripedia	20	939	231	206	138	36	14	24	11	6	53	64	
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	16	2		7	26	1		4	11	117	2	17	
<i>Evadne spinifera</i>		5	3	16									
<i>Penilia avirostris</i>	105	101	80	15	101	4				161	7	206	
<i>Podon polyphemoides</i>													
Copepoda calanoida		7	16	15	36	4	11	3	11			4	
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>			11	30								284	
<i>Acartia clausi</i>													
<i>Acartia danae</i>													
<i>Acartia negligens</i>		2											
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	1948	62	499	1365	1065	1509	264	1719	129	4103	518	248	741
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>													
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													
9													

**Acartia tonsa* + *A. californiensis*.

PLANKTON DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae					66								
<i>Corycaeus amazonicus</i>	2								3				
<i>Corycaeus anglicus</i>	99	34	96	209	141	62	17	19	7	22	37	28	176
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>	4												
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>	10				4	4		3					
<i>Oithona plumifera</i>		9			4	4							3
<i>Oithona similis</i>	5	6			4	4	5	6	16		1	4	
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.	9	75	7	7	4		2	47	4	6	4		24
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>			16										
<i>Oncaea media</i>	6					4							
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.			21				2	19		6			
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>			5										
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>	26		5		13	40						4	7
Copepoda monstrilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)												1	
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	36	13	48	37	96	66	12	7	3	38	3	5	14

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A8

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)	10					4	2		3	22	1	2	3
Macura (zoea)													
Panaeida (zoea)						4							
Euphausiacea (calyptosis)			5	15						11			7
Isopoda													
Mysidacea			86					3					
Ostracoda													
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)		9	75	37	13	44	6	8	1		4	16	20
CNIDARIA													
Hydrozoa (medusae)	46	23	38	284	224	66	5	28	34				3
Siphonophora			70										7
Scyphozoa													
CHAETOGNATH	120	3	11	15		22	1	6		33	25	46	47
CHORDATA													
Ascidiacea (larvae)	10	2						3	8	6	4		3
Larvacea	325	34	966	1663	44	990	16	77	190	72	80	50	508
<i>Oikopleura</i>													
Thaliacea	21	16	16	7		9					3	4	44
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)		4	16	44		4		3			1		10
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)		26				4							
Holothuroida (auricularia)		10				4							
Ophiuroidea (ophiopluteus)		4	32			4							
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	26	2	38	22	18	13	2	6		16			41
Pteropoda													
Pelecypoda (veliger)	16				4								
NEMATODA													
NEMERTEA (pilidium)		2											1
PHORONIDA (actinotroch)						4							2

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A9

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA													
ARTHOPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprellidae						14				3			
Cirripedia	107	6	484	314	72	447	19	140	94	39	62	158	91
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	295			63	8	81		7		8	62	26	3
<i>Evadne spinifera</i>		2	2	31		14							
<i>Penilia avirostris</i>	559	58	10	31	24	27					246	79	226
<i>Podon polyphemoides</i>	113			8			41	240	404	409	176	165	176
Copepoda calanoida		6	39			95	41	70	21			2	
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>													10
<i>Acartia clausi</i>				16					14	5			3
<i>Acartia danae</i>	6												
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	578	368	255	3237	1540	4495	614	3800	2972	1141	3256		715
Aetideidae													669
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>							2						
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>													
<i>Calanus tenuicornis</i>			8		8							2	6
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PLANKTON DATA													
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae													
<i>Corycaeus amazonicus</i>		3	6	8									3
<i>Corycaeus anglicus</i>	270	41	87	102	181	95	105	930	36	8	70	38	261
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.				110		41							
<i>Farranula curta</i>		3											
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>								20					
<i>Oithona plumifera</i>	6	5	6										
<i>Oithona similis</i>		5					5		36	5			
<i>Oithona spinirostris</i>							2						
<i>Oithona</i> spp.	6	12	14		8	14	2	70	22	35	2	31	
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>	6	6		8									
<i>Oncaea</i> spp.	6		6				12						
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemmestra rostrata</i>													
<i>Clytemmestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>	38	3		8								2	
Copepoda monstrilloida													
Monstrillidae	6												
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	6	52	149		181	54		110	58	10	290	19	22

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PLANKTON DATA													
ARTHOPODA CRUSTACEA (cont.)													
Copepoda calanoida (cont.)													
Eucalanidae													
<i>Eucalanus elongatus</i>													
<i>Eucalanus</i> spp.													
<i>Rhincalanus nasutus</i>													
Lucicutiidae													
<i>Lucicutia flavicornis</i>													
Metridiidae													
<i>Pleuromamma borealis</i>													
<i>Pleuromamma gracilis</i>													
<i>Pleuromamma</i> spp.													
Paracalanidae													
<i>Paracalanus parvus</i>	159	2025	330	1467	35	864	213	321	154	53	183	716	
Pontellidae													
<i>Labidocera jollae</i>	2	7	4	342	17	32	4	17		1		3	
<i>Labidocera trispinosa</i>													
<i>Pontellopsis occidentalis</i>													
Pseudocalanidae													
<i>Clausocalanus arcuicornis</i>													
<i>Clausocalanus farrani</i>													
<i>Clausocalanus furcatus</i>	1			10								3	
<i>Clausocalanus jobei</i>													
<i>Clausocalanus lividus</i>													
<i>Clausocalanus mastigophorus</i>													
<i>Clausocalanus parqpergens</i>													
<i>Clausocalanus paululus</i>													
<i>Clausocalanus pargens</i>				2									
<i>Clausocalanus</i> spp.	1												
<i>Ctenocalanus vanus</i>				2									
Pseudocyclopidae													
<i>Pseudocyclops bilobatus</i>													
Pseudodiaptomidae													
<i>Pseudodiaptomus euryhalinus</i>													
Temoridae													
<i>Temora discaudata</i>													
Tortanidae													
<i>Tortanus discaudatus</i>			14	10		16					3	28	
Copepoda caligoida													

STATION A10

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A10

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeiidae													
<i>Corycaeus amazonicus</i>			14	2								3	
<i>Corycaeus anglicus</i>	13		21	17	127	12	312	18	21	19	2	34	15
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>			7		10								
<i>Oithona plumifera</i>							56			12		3	
<i>Oithona similis</i>	9			8									
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.								11	7				3
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.			7						3				3
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemmestra rostrata</i>													
<i>Clytemmestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>			7	2	78	12			7				6
Copepoda monstrilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoaea)													
Anomura-porcellanidae (zoaea)													
Brachyura (zoaea, megalopa)	20	42	53	39	94	48	48	18	14	3			37

HARBORS ENVIRONMENTAL PROJECTS December 1977-December 1978 STATION All

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	81					24	7		1				49
ARTHOPODA CRUSTACEA													
Amphipoda													
Gammaridae									1	1	2		
Caprellidae													
Cirripedia	144			10	16	14	14		19	10	2		175
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>						110			6	276	411		49
<i>Evadne spinifera</i>													
<i>Penilia avirostris</i>					8		2			13	22	6	925
<i>Podon polyphemoides</i>							33		62	180	775	29	274
Copepoda calanoida	5						13			10			
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>													4
<i>Acartia clausi</i>													
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	1004			8716	4156		72		12	78	136	231	1122
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>													
<i>Calanus tenuicornis</i>						31	8						13
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS PLANKTON DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae													
<i>Corycaeus amazonicus</i>						8	28			11	2	2	328
<i>Corycaeus anglicus</i>			76										
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													4
Oithonidae													
<i>Oithona nama</i>													
<i>Oithona oculata</i>			5			39							4
<i>Oithona plumifera</i>													4
<i>Oithona similis</i>							2			10			
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.			10			16							94
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.							10			4			
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													4
Copepoda monstrilloidea													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoaea)												1	
Anomura-porcellanidae (zoaea)													
Brachyura (zoaea, megalopa)			392		157	31	8			4	8	2	9

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												STATION ALL
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
PLANKTON DATA													
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)			139			5		1	2				
Caridea (zoea)													
Macura (zoea)													
Panaeidea (zoea)													
Euphausiacea (calyptosis)													
Isopoda													
Mysidacea													
Ostracoda			206										
BRACHIOPODA (larvae)						8				5	2		4
BRYOZOA (cyphonautes)					63								
CNIDARIA													
Hydrozoa (medusae)			29		20	2		6	1				
Siphonophora			38										
Scyphozoa													
CHAETOGNATH			53			7				5	20		229
CHORDATA													
Ascidiacea (larvae)									3				
Larvacea			703		73	558	47	12	6	24			552
<i>Oikopleura</i>													
Thaliacea					20								63
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)			14							2			
CTENOPHORA													
ECHINODERMATA													
Asteroidea (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)								3	1				
Holothuroidea (auricularia)													
Ophiuroidea (ophiopluteus)									1				9
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)			148			3							22
Pteropoda													
Pelecypoda (veliger)			24										
NEMATODA													
NEMERTEA (pillidium)													
PHORONIDA (actinotroch)													

HARBORS ENVIRONMENTAL PROJECTS December 1977-December 1978 STATION A12

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	13	2	144	148		13		29	12			7	35
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae										3			
Caprellidae													
Cirripedia	194	40	688	173	328	310	240	220	117	26	11	103	185
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	220	4	3	15	15	84	40		17	105	187	22	31
<i>Evadne spinifera</i>		8	19	25		6						22	
<i>Penilia avirostris</i>	2304	80	151	242	391	19				3	219	601	651
<i>Podon polyphemoides</i>								396	951	295	229	11	194
Copepoda calanoida		12	34	20	14	77	230	125	42	11			
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>												22	
<i>Acartia clausi</i>													9
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	2666	134	585	697	723	2452	4160	3249	930	139	313	891	730
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>								44					
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.		18											
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													8
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curba</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

December 1977-December 1978

HARBORS ENVIRONMENTAL PROJECTS

PLANKTON DATA

Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

ARTHROPODA CRUSTACEA (cont.)

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Copepoda cyclopoida													
Corycaeiidae													
<i>Corycaeus amazonicus</i>	13	14	16	15		6							
<i>Corycaeus anglicus</i>	776	92	110	30	220	52	390	117	17	8	31	271	202
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>		12											
<i>Corycaeus</i> spp.				59		58							
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>													
<i>Oithona plumifera</i>		6	9			6	20	15	12				4
<i>Oithona similis</i>													
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.	10	41		20				7	4		5	4	40
Oncaeidae													
<i>Oncaea corifera</i>													
<i>Oncaea dentipes</i>			3										
<i>Oncaea media</i>		6											
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>			3										
<i>Oncaea</i> spp.			9				50	7	4				4
Copepoda harpacticoida										2			
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>			3		5	19	10			2	2		4
Copepoda monstrilloidea													
Monstrillidae													
Cunacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	22	44	35	54	19	30	51	4	1	7	9		

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A12

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)		2	19		20								13
Macura (zoea)													
Penaeida (zoea)													
Euphausiacea (calyptosis)												4	
Isopoda													
Mysidacea													
Ostracoda			50	5									
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)		12	66	25	24	32	140	110	4		4	161	22
CNIDARIA	26												
Hydrozoa (medusae)		32	12	79	215	58	10	73	100	2			
Siphonophora			47										
Scyphozoa													
CHAETOGNATH	129	68	22	74	15	19	10	37	8	2	54	268	70
CHORDATA													
Ascidiacea (larvae)													
Larvacea	52	46	1207	297	78	860	880	323	230	11	9	84	308
<i>Oikopleura</i>													
Thaliacea	129	26	44		122		60				12	114	75
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)			14	25	15	13		14	8	2	2		9
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)	2												
Echinoidea (echinopluteus)	24			5					42				
Holothuroidea (auricularia)						6			4				
Ophiuroidea (ophiopluteus)	6		25								3	7	
MOLLUSCA													
Cephalopoda													
Octopoda								7					
Gastropoda (veliger)	26	28	182	15	64	26		15					26
Pteropoda													
Pelecypoda (veliger)			34			13							
NEMATODA													
NEMERTEA (pillidium)													
PHORONIDA (actinotroch)	13				5								2

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PLANKTON DATA	46	2	75	36		24		4					17
ANNELIDA POLYCHAETA													
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprelliidae													
Cirripedia	12	15	168	82	134	134	134	18	308	239		166	237
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	162			8		49			24	201	1112	5	169
<i>Evadne spinifera</i>	116			15							10		21
<i>Penilia avirostris</i>	2941	78	41	64			38		24	6	3278	166	778
<i>Podon polyphemoides</i>								132	308	616	686		178
Copepoda calanoida	104	8	34	5		257	688	18	86	44			4
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>													
<i>Acartia clausi</i>													2
<i>Acartia danae</i>		2											
<i>Acartia negligens</i>		2											
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	764	84	202	215		2848	2965	971	1959	999	3326	1222	829
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>		4	8			12							34
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													5
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													9
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A13

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda calanoida (cont.)													
Eucalanidae													
<i>Eucalanus elongatus</i>		2											
<i>Eucalanus</i> spp.													
<i>Rhinacalanus nasutus</i>					19				5				
Lucicutiidae													
<i>Lucicutia flavicornis</i>													
Metridiidae													
<i>Pleuromamma borealis</i>													
<i>Pleuromamma gracilis</i>													
<i>Pleuromamma</i> spp.													
Paracalanidae													
<i>Paracalanus parvus</i>	1656	312	706	442	587	1703	593	979	452	996	210	1121	
Pontellidae													
<i>Labidocera jollae</i>		17	16	123	98	325	18	33	6	77	20	13	
<i>Labidocera trispinosa</i>	12												
<i>Pontellopsis occidentalis</i>													
Pseudocalanidae													
<i>Clausocalanus arcuicornis</i>													4
<i>Clausocalanus farrani</i>		2											
<i>Clausocalanus furcatus</i>	313	54	65	2				28	19				8
<i>Clausocalanus jobei</i>		6	23							10			13
<i>Clausocalanus lividus</i>		6											
<i>Clausocalanus mastigophorus</i>	12												
<i>Clausocalanus parapergens</i>		2		2									
<i>Clausocalanus paululus</i>													
<i>Clausocalanus pergens</i>													8
<i>Clausocalanus</i> spp.	199	54							25	106			46
<i>Ctenocalanus vanus</i>		8				57			14				4
Pseudocyclopidae													
<i>Pseudocyclops bilobatus</i>													
Pseudodiaptomidae													
<i>Pseudodiaptomus euryhalinus</i>													
Temoridae													
<i>Temora discaudata</i>	12		8										
Tortanidae													
<i>Tortanus discaudatus</i>	12		3				4			29			17
Copepoda caligoida													

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A13

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHOPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae													
<i>Corycaeus amazonicus</i>			10		12				33				4
<i>Corycaeus anglicus</i>	706	159	132	46	171	689		82	38	6	309	220	161
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.					12								
<i>Farranula curta</i>	12	6											
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>					12			14					4
<i>Oithona plumifera</i>		4	5								48	5	8
<i>Oithona similis</i>	12				12				24	6			
<i>Oithona spinirostris</i>		2			12								
<i>Oithona</i> spp.		10	18			19		27	10		68		46
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>				3									
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>	12												
<i>Oncaea venusta</i>	46	6											
<i>Oncaea</i> spp.	12		10			57		4	19			5	4
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstrilloidea													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)	23												
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	23	52	85	49	122	38		14	19	25	48	5	76

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION AL3

PLANKTON DATA

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)			18	28		12		4	14				13
Macrura (zoea)													
Panaeida (zoea)						61			28				
Euphausiacea (calyptosis)		2				12							
Isopoda		2				12							
Mysidacea				10									
Ostracoda		2	18										4
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)	81	21	28	15	37	210	14	10	12	10	10	20	46
CNIDARIA													
Hydrozoa (medusae)	69	48	5	84	61	38	64	317	10	10	5		
Siphonophora			10				9						
Scyphozoa													
CHAETOGNATH													
Siphonophora	23	61	31	13		38	55	24	25	145	484		38
CHORDATA													
Ascidiacea (larvae)								5					
Larvacea	509	54	776	38	1479	1339	105	416	12	87	15	444	
<i>Oikopleura</i>													
Thaliacea	485	44	36	10		134	4	5		39	24	351	
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)		10	31	13		24							
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)	12	12							24				
Holothuroidea (auricularia)		2											
Ophiuroidea (ophiopluteus)	12	10	10						24	10	5	4	
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	35	10	13	8	37	57	4	33		10			42
Pteropoda		2											
Pelecypoda (veliger)				15		38							4
NEMATODA													
NEMERTEA (pilidium)													
PHORONIDA (actinotroch)		4		2		24							

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PLANKTON DATA	2	27	56	119	24			13					8
ANNELIDA POLYCHAETA													
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae										5			
Caprellidae													
Cirripedia	41	27	316	263	128	425	273	102	97	97	52	228	110
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	450			44	12	103	61			60	632	44	48
<i>Evadne spinifera</i>	82		8	23		12						11	3
<i>Penilia avirostris</i>	2517	124	56	69	483	44	30	13	3	5	514	978	471
<i>Podon polyphemoides</i>								434	666	523	414	22	99
Copepoda calanoida	20		13		18	44	850	26	28	23			
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>													
<i>Acartia clausi</i>		6											
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	5055	346	190	1552	562	4019	7768	4897	387	1121	3825	4335	990
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>		6						13				43	8
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.	4		5										

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A14

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHOPODA CRUSTACEA (cont.)													
Copepoda calanoida (cont.)													
Eucalanidae													
<i>Eucalanus elongatus</i>													
<i>Eucalanus</i> spp.													
<i>Rhincalanus nasutus</i>	20												
Lucicutiidae													
<i>Lucicutia flavicornis</i>													
Metridiidae													
<i>Pleuromamma borealis</i>													
<i>Pleuromamma gracilis</i>													
<i>Pleuromamma</i> spp.													
Paracalanidae													
<i>Paracalanus parvus</i>	941	681	410	503	299	323	2670	178	138	496	723	1749	1044
Pontellidae													
<i>Labidocera jollae</i>													
<i>Labidocera trispinosa</i>	20	31	33	56	128	191	182	38	34		74	76	8
<i>Pontellopsis occidentalis</i>													
Pseudocalanidae													
<i>Clausocalanus arcuicornis</i>		2											
<i>Clausocalanus farrani</i>		10											
<i>Clausocalanus furcatus</i>	200	72	8	12								11	6
<i>Clausocalanus jobei</i>		4	2										
<i>Clausocalanus lividus</i>		4											
<i>Clausocalanus mastigophorus</i>		2											
<i>Clausocalanus parapergens</i>		2											
<i>Clausocalanus paululus</i>													
<i>Clausocalanus pergens</i>		2											
<i>Clausocalanus</i> spp.	279	279	13	19	6						4	22	6
<i>Ctenocalanus vanus</i>													
Pseudocyclopidae													
<i>Pseudocyclops bilobatus</i>													
Pseudodiaptomidae													
<i>Pseudodiaptomus euryhalinus</i>													
Temoridae													
<i>Temora discaudata</i>			2									30	
Tortanidae													
<i>Tortanus discaudatus</i>			8					26					3
Copepoda caligoida													

PLANKTON DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae					55	146							
<i>Corycaeus amazonicus</i>					6				6			11	
<i>Corycaeus anglicus</i>	409	115	187	82	244	191	850	51	19	9	148	424	164
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>	4												
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>													
<i>Oithona plumifera</i>	6	23			49								3
<i>Oithona similis</i>			2							5			
<i>Oithona spinirostris</i>									3	10			
<i>Oithona</i> spp.	4	18		6				13	3		39		70
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>	4												
<i>Oncaea mediterranea</i>	20												
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>	20												
<i>Oncaea</i> spp.			23				91						
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstrilloida	20	2	10	6	12	44							6
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	6	81	38	44	30	51							14

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PLANKTON DATA	1		80	42		10		8					64
ANNELIDA POLYCHAETA													
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae											28		
Caprellidae				4									
Cirripedia	11	11	1088	140	38	15		8	5	25	82	3	320
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	109			7	11	53		1	13	156	4428	1	168
<i>Evadne spinifera</i>	4		56	9									8
<i>Penilia avirostris</i>	448	108	72	35	110				1	7	3768		1888
<i>Podon polyphemoides</i>	4	1						619	69	345	5734	53	352
Copepoda calanoida	1	3	8	7		5		3	2	7			
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>												4	
<i>Acartia clausi</i>			11							1			
<i>Acartia danae</i>													
<i>Acartia negligens</i>		3											
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	67	234	1928	447	968	953		305	16	26	1416	60	1776
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>				7									
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													6
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													2

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PLANKTON DATA													
ARTHOPODA CRUSTACEA (cont.)													
Copepoda cyclopoidea													
Corycaeidae													
<i>Corycaeus amazonicus</i>					33	10							
<i>Corycaeus anglicus</i>		3	8		33				1	3			
<i>Corycaeus flaccus</i>	23	117	72	79	11	5		14	2	8	124	6	464
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>							6						
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>	1		24	6	5			3					
<i>Oithona plumifera</i>		3	8										8
<i>Oithona similis</i>		4				10			1	1			
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.	4	1	32		16	5		4		1			264
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>	1	1		4									16
<i>Oncaea</i> spp.			8							1			
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemmestra rostrata</i>													
<i>Clytemmestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>	1		8	2									16
Copepoda monstilloidea													
Monstrellidae													
Monstrellidae													
Cumacea													
Decapoda													
Anomura (zoaea)													
Anomura-porcellanidae (zoaea)													
Brachyura (zoaea, megalopa)	4	1	144	18	16			5		3	69	1	32

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A15

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHOPODA CRUSTACEA (cont.)													
Decapoda (cont.)			64					1				1	8
Caridea (zoea)													
Macura (zoea)													
Penaeida (zoea)													
Euphausiacea (calyptosis)	1												
Isopoda													
Mysidacea			24	20									
Ostracoda			64	4									
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)	7	14	32	11	20			1	1	1	124	1	
CNIDARIA													
Hydrozoa (medusae)	7	4		88	116	34		5	5	1			8
Siphonophora			24										8
Scyphozoa													
CHAETOGNATH													
CHORDATA	1	21	80		5			3		2	41	9	448
Ascidiacea (larvae)													
Larvacea	15	72	1328	312	149	787		3	2				16
<i>Oikopleura</i>								120	6	3	82		792
Thaliacea	12	10	8		236	5				1		1	144
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)	3	1	16	22	6	10		3					8
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)		3		2						2			
Holothuroidea (auricularia)										1			
Ophiuroidea (ophiopluteus)		1									28		
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	1	3	104	4	5			1					72
Pteropoda													
Pelecypoda (veliger)			32										
NEMATODA													
NEMERTEA (pilidium)													
PHORONIDA (actinotroch)													2

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A16

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	19	26	65	6	4	4	10	17					
ARTHOPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprellidae													
Cirripedia	55	31	1169	239	63	61	59	8	14	38	1	61	79
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	266	4		5	154	15	15	3	11	44	64	24	83
<i>Evadne spinifera</i>	110			22								12	4
<i>Penilia avirostris</i>	2337	159		32	37	6			1	6	120	863	635
<i>Podon polyphemoides</i>	9						4	399	157	495	135	32	187
Copepoda calanoida	46	6		5	22	22	370		2				
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>													24
<i>Acartia clausi</i>				5									
<i>Acartia danae</i>		4											
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	568	315	4334	956	2483	2266	888	503	24	1617	99		376
Acteidae													739
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>												5	
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>			13										
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>		4											
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>			13										
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

December 1977-December 1978 STATION A16

HARBORS ENVIRONMENTAL PROJECTS

PLANKTON DATA

ARTHIPODA CRUSTACEA (cont.)

Copepoda calanoida (cont.)

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Eucalanidae													
<i>Eucalanus elongatus</i>													
<i>Eucalanus</i> spp.													
<i>Rhincalanus nasutus</i>	18												
Lucicutiidae													
<i>Lucicutia flavicornis</i>													
Metridiidae													
<i>Pleuromma borealis</i>													
<i>Pleuromma gracilis</i>													
<i>Pleuromma</i> spp.													
Paracalanidae													
<i>Paracalanus parvus</i>	724	322	801	712	330	575	370	40	16	160	7	318	868
Pontellidae													
<i>Labidocera jollae</i>													
<i>Labidocera trispinosa</i>		26	92	27	16	94	35	3	2		4	29	
<i>Pontellopsis occidentalis</i>													
Pseudocalanidae													
<i>Clausocalanus arcuicornis</i>		4											
<i>Clausocalanus farrani</i>		4											
<i>Clausocalanus furcatus</i>	110	64	13										8
<i>Clausocalanus jobei</i>		4											
<i>Clausocalanus lividus</i>													
<i>Clausocalanus mastigophorus</i>													
<i>Clausocalanus parapergens</i>		4											
<i>Clausocalanus paululus</i>													
<i>Clausocalanus pergens</i>													
<i>Clausocalanus</i> spp.	273	39											17
<i>Ctenocalanus varus</i>		4											
Pseudocyclopidae													
<i>Pseudocyclops bilobatus</i>													
Pseudodiaptomidae													
<i>Pseudodiaptomus euryhalinus</i>													
Temoridae													
<i>Temora discaudata</i>	9	11											
Tortanidae													
<i>Tortanus discaudatus</i>		4											2
Copepoda caligoida													

HARBORS ENVIRONMENTAL PROJECTS PLANKTON DATA	December 1977-December 1978												STATION AL6				
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
ARTHROPODA CRUSTACEA (cont.)																	
Copepoda cyclopoida																	
Corycaeiidae																	
<i>Corycaeus amazonicus</i>					5	6											
<i>Corycaeus anglicus</i>	486	133	131	43	26		239	8	1	22	9	177	158				
<i>Corycaeus flaccus</i>																	
<i>Corycaeus giesbrechti</i>						28											
<i>Corycaeus</i> spp.																	
<i>Farranula curta</i>																	
Oithonidae																	
<i>Oithona nama</i>																	
<i>Oithona oculata</i>						6		4									8
<i>Oithona plumifera</i>	9	4	13														25
<i>Oithona similis</i>									3			2					
<i>Oithona spinirostris</i>					5												
<i>Oithona</i> spp.	9	4	39		5		4	12									33
Oncaeidae																	
<i>Oncaea conifera</i>																	
<i>Oncaea dentipes</i>																	
<i>Oncaea media</i>	9	8															
<i>Oncaea mediterranea</i>																	
<i>Oncaea minuta</i>																	
<i>Oncaea venusta</i>	46	4															
<i>Oncaea</i> spp.			26				35	1				2					
Copepoda harpacticoida																	
Ectinosomidae																	
<i>Microsetella norvegica</i>																	
<i>Mictosetella rosea</i>																	
Pseudo-pelidiidae																	
<i>Clytemnestra rostrata</i>																	
<i>Clytemnestra scutellata</i>																	
Tachidiidae																	
<i>Euterpina acutifrons</i>																	4
Copepoda monstrilloidea																	
Monstrillidae																	
Cumacea																	
Decapoda																	
Anomura (zoaea)																	
Anomura-porcellanidae (zoaea)																	
Brachyura (zoaea, megalopa)	18	23	158	11	49	11	8	8	2			2	12				

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A16

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)		8	26				8	4				2	4
Macrura (zoea)													
Penaeida (zoea)							8						
Euphausiacea (calyptosis)				5									
Isopoda													
Mysidacea													
Ostracoda			105					1					
BRACHIOPODA (larvae)													
BRACHIOPODA (larvae)	4												
BRYOZOA (cyphonautes)	9	254	39	32	5	22	204	6			7	86	
CNIDARIA													
Hydrozoa (medusae)	9	64		49	100		4	1	9			12	
Siphonophora			39					1					4
Scyphozoa													
CHAETOGNATH													
CHAETOGNATH	18	26	39	5	5		12	4		6	4	320	66
CHORDATA													
Ascidiacea (larvae)					5								
Larvacea	64	61	1392	684	152	908	452	155	14	16	2	64	220
<i>Oikopleura</i>													
Thaliacea	312	110	13		168	6	35					218	12
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)											1		
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)	18	38				6	4		2				
Holothuroidea (auricularia)		11											
Ophiuroidea (ophiopluteus)		19					8					5	
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	18	15	39	11		6	35					5	21
Pteropoda													
Pelecypoda (veliger)			13										
NEMATODA													
NEMERTEA (pilidium)													6
PHORONIDA (actinotroch)													
PHORONIDA (actinotroch)				5			12		1				2

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A17

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	20	25	163	120			16	8	1			48	9
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprellidae													
Cirripedia	59	42	967	570	69	256	40	152	12	37	53	88	367
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	978			30	31	264	8		18	103	458	8	128
<i>Evadne spinifera</i>	391		26		6				1			48	
<i>Penilia avirostris</i>	5104	109	167	100	132	9		15		18	370	584	1668
<i>Podon polyphemoides</i>	78							508	129	752	933	64	266
Copepoda calanoida	40	25	15	30		53	626	23	6	11		16	
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>									1				
<i>Acartia clausi</i>													
<i>Acartia danie</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp. *	2660	1006	531	1440	1402	3238	2347	1214	32	744	2834		3648
Aetideidae													1998
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													18
<i>Calanus pacificus</i>			4					30					
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>								8					
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													6
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													8
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A17

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeiidae													
<i>Corycaeus amazonicus</i>	20	8	4	31	18	18		30	1	18	176	168	9
<i>Corycaeus anglicus</i>	782	25	178	182	114	373			4				358
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.	117			38	9								
<i>Farranula curta</i>	8												
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>					18						9		
<i>Oithona plumifera</i>	59		34	10	6								18
<i>Oithona similis</i>	39								4			8	
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.	78	17	23	19				15			9		165
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>	34												
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>	20												
<i>Oncaea</i> spp.			8			79		8	1				64
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>	20												
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>	59		23	6	26	8			1				
Copepoda monstilloidea													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	20		106	20	12			15		4			55

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION A17

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)			26	10	6				1				18
Caridea (zoea)													
Macura (zoea)													
Panaeida (zoea)							8						
Euphausiacea (calyptosis)													
Isopoda													
Mysidacea				10									
Ostracoda			19	10			8						
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)	215	561	174	40	12	26	63	53		7	53	136	73
CNIDARIA													
Hydrozoa (medusae)	39	68	8	90	88	44	24	91	8	4		56	28
Siphonophora			46										
Scyphozoa													
CHAETOGNATH													
CHORDATA	59	34	34		12	35		23	1	123	304	183	
Ascidiacea (larvae)									1				9
Larvacea	645	126	1369	1130	56	1610	603	136	27	4	88	88	1348
<i>Oikopleura</i>													
Thaliacea	1115	142	26		245	44	103	15	1	4	53	304	183
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)	40	8	102	70	12	9			4	9			18
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)	20	84							2				
Holothuroidea (auricularia)		8											
Ophiuroidea (ophiopluteus)			8				8						9
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	42	391	20	20	12		24	30				8	73
Pteropoda													
Pelecypoda (veliger)													8
NEMATODA													
NEMERTEA (pilidium)	20		4										
PHORONIDA (actinotroch)													

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												STATION B1
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
PLANKTON DATA	24	5	132	22	8	4	4			2			9
ANNELIDA POLYCHAETA													
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae		1							14				
Caprellidae													
Cirripedia	96	19	121	11	123	13	50	75	79	66	104		99
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	78	2	44		33		21	239	512	33	75		13
<i>Evadne spinifera</i>	6		165		25			4	125		60		9
<i>Penilia avirostris</i>	988	84	308	332	68	13	46	198	122	113	1842		673
<i>Podon polyphemoides</i>							8	729	86	36			43
Copepoda calanoida			11	3	33		201	30	19	25	7		26
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>		1	11								2		
<i>Acartia clausi</i>													
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	259	324	946	227	518	6670	867	7065	1238	327	811	783	625
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>	6	1	110	3		230	42		138		37		69
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>	12		11								2		
<i>Calocalanus</i> spp.		1											
<i>Isehnocalanus tenuis</i>										7			
<i>Mecynocera clausi</i>		6					3				2		9
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS

STATION B1

December 1977-December 1978

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda calanoida (cont.)													
Eucalanidae													
<i>Eucalanus elongatus</i>													
<i>Eucalanus</i> spp.													
<i>Rhincalanus nasutus</i>	6		8	13	4	7	1						9
Lucicutiidae													
<i>Lucicutia flavicornis</i>													
Metridiidae													
<i>Pleuromanna borealis</i>													
<i>Pleuromanna gracilis</i>				3									
<i>Pleuromanna</i> spp.													
Paracalanidae													
<i>Paracalanus parvus</i>	422	170	2475	315	267	1454	251	1509	1339	381	196	641	466
Pontellidae													
<i>Labidocera jollae</i>													
<i>Labidocera trispinosa</i>	12	7	11	42	5	102	168	25	7	29	13	7	4
<i>Pontellopsis ovoidentatis</i>											2		
Pseudocalanidae													
<i>Clausocalanus arcuicornis</i>										3		7	
<i>Clausocalanus farrani</i>										70		7	
<i>Clausocalanus furcatus</i>		23	264	80	5		4		4				4
<i>Clausocalanus jobei</i>		4	8	8	3			50		3			
<i>Clausocalanus lividus</i>							4						
<i>Clausocalanus mastigophorus</i>										1			4
<i>Clausocalanus parapergens</i>			11										
<i>Clausocalanus paululus</i>										2	2		
<i>Clausocalanus pergens</i>													
<i>Clausocalanus</i> spp.		33	77	86	3		4		4	131	8	7	9
<i>Ctenocalanus vanus</i>			22		3						15		4
Pseudocyclopidae													
<i>Pseudocyclops bilobatus</i>													
Pseudodiaptomidae													
<i>Pseudodiaptomus euryhalinus</i>													
Temoridae													
<i>Temora discaudata</i>			22	17								7	4
Tortanidae													
<i>Tortanus discaudatus</i>	6	1	.11	25	38		7			4	10		15
Copepoda caligoida													

HARBORS ENVIRONMENTAL PROJECTS PLANKTON DATA	December 1977-December 1978												STATION B1				
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
ARTHOPODA CRUSTACEA (cont.)																	
Copepoda cyclopoida																	
Corycaeidae																	
<i>Corycaeus amazonicus</i>																	
<i>Corycaeus anglicus</i>	536	136	220	310	53	752	130	427	108	109	125	433	112				
<i>Corycaeus flaccus</i>																	
<i>Corycaeus giesbrechti</i>		1															
<i>Corycaeus</i> spp.					20												
<i>Farranula curta</i>																	
Oithonidae																	
<i>Oithona nana</i>																	
<i>Oithona oculata</i>					3	13	4										
<i>Oithona plumifera</i>					5												
<i>Oithona similis</i>	18	6	33	17	3				37	4	2	7	34				
<i>Oithona spinirostris</i>	18	1		3													
<i>Oithona</i> spp.		1		53	13	13	4	176		3							
Oncaeidae																	
<i>Oncaea conifera</i>					3												
<i>Oncaea dentipes</i>																	
<i>Oncaea media</i>			22		3												
<i>Oncaea mediterranea</i>																	
<i>Oncaea minuta</i>																	
<i>Oncaea venusta</i>					3		4										
<i>Oncaea</i> spp.	30		11			26			37	2	15	34	4				
Copepoda harpacticoida																	
Ectinosomidae																	
<i>Microsetella norvegica</i>																	
<i>Mictosetella rosea</i>					3												
Pseudo-pelidiidae																	
<i>Clytemestra rostrata</i>																	
<i>Clytemestra scutellata</i>																	
Tachidiidae																	
<i>Euterpina acutifrons</i>																	
Copepoda monstrilloida	6	1	11	3	5	38				1	2	15	4				
Monstrillidae																	
Cumacea																	
Decapoda																	
Anomura (zoea)																	
Anomura-porcellanidae (zoea)	6																
Brachyura (zoea, megalopa)	30	26	121	36	15					2	7	4					

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION B1

PLANKTON DATA

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)													
Caridea (zoea)	24	3	22	17	5	38	13	4		2			
Macura (zoea)													
Panaeida (zoea)													
Euphausiacea (calyptosis)											2		9
Isopoda													
Mysidacea		4			3								
Ostracoda				3	8				4		2		
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)	42	6		36	20	13	96		30	73	67	119	17
CNIDARIA													
Hydrozoa (medusae)	18		77	116			4	276		1	4	75	9
Siphonophora	30	29	187	232	13			25			6	7	4
Scyphozoa													
CHAETOGNATH	18	52	33	50	50	64	29	50	30	11	50	164	34
CHORDATA													
Ascidiacea (larvae)										1			9
Larvacea	181	95	330	130	161	230	130	981	205		52	321	880
<i>Orkopleura</i>													
<i>Doliolum</i>	96		462	196		26	71		7	7	48	999	198
Thaliacea													
Vertebrata													
Osteichthys (eggs, larvae)	6	8	99	45	5	13	4	25	48	5	8		9
CTENOPHORA												2	7
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)	18	4	33	5									15
Ophiuroidea (ophiopluteus)				64	9				11	140	250		
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	6	2	22		15	64	4		7	1		7	17
Pteropoda				6									
Pelecypoda (veliger)			22			38						2	
NEMATODA													
NEMERTEA (pilidium)													4
PHORONIDA (actinotroch)									7				

HARBORS ENVIRONMENTAL PROJECTS December 1977-December 1978 STATION B2

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA													
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprellidae													
Cirripedia	33	4	176	3	155	57	48	121	116	196	18	55	25
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	16		8		8		16		4	77	39	5	10
<i>Evadne spinifera</i>	6		153										
<i>Perilia avirostris</i>	362	29	31		8		464	728	96	986	192	62	106
<i>Podon polyphemoides</i>									56		6		8
Copepoda calanoida	2		8	6	17								
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>												99	
<i>Acartia clausi</i>									16		15		
<i>Acartia danae</i>			8										2
<i>Acartia negligens</i>												607	
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	847	66	197	216	440	3332	2568	11106	1104	1802	564	5	313
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>	2		138		8	151	8					5	33
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>	2												
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													2
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

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**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PLANKTON DATA													
ARTHROPODA CRUSTACEA (cont.)													
Copepoda calanoida (cont.)													
Eucalanidae													
<i>Eucalanus elongatus</i>													
<i>Eucalanus</i> spp.													
<i>Rhincalanus nasutus</i>													
Lucicutiidae													
<i>Lucicutia flavicornis</i>													
Metridiidae													
<i>Pleuromamma borealis</i>													
<i>Pleuromamma gracilis</i>													
<i>Pleuromamma</i> spp.													
Paracalanidae													
<i>Paracalanus parvus</i>	841	206	2058	400	331	1428	408	7101	288	385	242	548	789
Pontellidae													
<i>Labidocera jollae</i>	16	4	38	13	59	108	64	607	8	9	24	14	6
<i>Labidocera trispinosa</i>													
<i>Pontellopsis occidentalis</i>													
Pseudocalanidae													
<i>Clausocalanus arcuicornis</i>		12											
<i>Clausocalanus farrani</i>													
<i>Clausocalanus furcatus</i>		9	31	1									
<i>Clausocalanus jobei</i>				1									
<i>Clausocalanus lividus</i>													
<i>Clausocalanus mastigophorus</i>													
<i>Clausocalanus parapergens</i>													
<i>Clausocalanus paululus</i>													
<i>Clausocalanus pergens</i>			8										
<i>Clausocalanus</i> spp.			54	4						4			4
<i>Ctenocalanus vanus</i>			8								6		
Pseudocyclopididae													
<i>Pseudocyclops bilobatus</i>													
Pseudodiaptomidae													
<i>Pseudodiaptomus euryhalinus</i>	2												
Temoridae													
<i>Temora discaudata</i>												1	
Tortanidae													
<i>Tortanus discaudatus</i>	2	4	38	10	25	72	24	182	32	70	21	2	2
Copepoda caligoida													

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION B2

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHOPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)		4	54	10	92	36	8	364		9	3		6
Macura (zoea)													
Panaeida (zoea)									4				
Euphausiacea (calyptosis)						7							
Isopoda		19		4	17	43	8				3		2
Mysidacea													
Ostracoda													
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)	10	2	15	1	4	7	8		8	2		5	
CNIDARIA													
Hydrozoa (medusae)	8		38		302	202	8		24	2	6	2	
Siphonophora	2	30	46	50		50							
Scyphozoa													
CHAETOGNATH													
CHORDATA	47	14	38	9	4	36	24	121	8	44	15	101	64
Ascidiacea (larvae)	2												
Larvacea	51	26	245		34		16	121	60	13	6	80	79
<i>Oikopleura</i>													
Thaliacea	16		15		4							11	39
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)	2	1		3			8	61		2	3		12
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)		1											
Holothuroidea (auricularia)	2	1											
Ophiuroidea (ophiopluteus)			8							4	3		
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	41	5	61	1	34	130		61		2	6	2	10
Pteropoda													
Pelecypoda (veliger)		1	15		8								6
NEMATODA													
NEMERTEA (pilidium)													
PHORONIDA (actinotroch)													3

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												STATION B3
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
PLANKTON DATA	13	2	79	42	14	35	70	5	6	4	4	20	
ANNELIDA POLYCHAETA													
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprellidae													
Cirripedia	160	34	185	13	244	179	211	282	200	85	72	132	295
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	160	2		20		35		78	159	49	60	60	60
<i>Evadne spinifera</i>	6		79	7	38						18	60	60
<i>Penilia avirostris</i>	1509	107	123	77	54	26		20	2	9	145	883	786
<i>Fodon polyphemoides</i>	13					493	598	323	687	305	152	786	37
Copepoda calanoida	6	2	9	22	14	217		98					
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>													
<i>Acartia clausi</i>	6				7								
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	1053	526	739	195	1489	6581	11528	11722	768	998	552	354	675
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>	26		141	13	38	194				3	7	47	
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.						76							
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.	13	4									3	3	3

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS PLANKTON DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHIPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeiidae													
<i>Corycaeus amazonicus</i>	19		35	7	14								3
<i>Corycaeus anglicus</i>	328	235	360	123	115	701	528	106	24	35	78	39	77
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>	2				68								
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>													
<i>Oithona plumifera</i>	2		17	3	14						3	4	37
<i>Oithona similis</i>	6	8									6	7	3
<i>Oithona spinirostris</i>	26												
<i>Oithona</i> spp.				12	14	13		35	5	3			3
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>	2		44										
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.	45	2	9	2					20	3			54
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemmestra rostrata</i>													
<i>Clytemmestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>	2		9	8		38						2	
Copepoda monstrellioida													
Monstrelliidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	64	103	167	67	237	230	176	141	15	11	3	4	34

PLANKTON DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	14	1	48	33	15						3	15	21
ARTHROPODA CRUSTACEA													
Amphipoda									14				
Gammaridae													
Caprellidae													
Cirripedia	175	2	304	13	667	121	30	894	172	68	95	236	
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	269				7	40		29	208		36	71	
<i>Evadne spinifera</i>	36								18		65	7	
<i>Penilia avirostris</i>	1134	12	10	7							131	773	
<i>Podon polyphemoides</i>	51					282	277	606	1714		473	200	
Copepoda calanoida				13	15			202	6	2			21
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>												29	
<i>Acartia clausi</i>	14							43		3			
<i>Acartia danae</i>													
<i>Acartia negligens</i>			784										
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	3418	139	263	1481		7120	3985	6751	1660	379	1265		1052
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>		1	160	8		40	109				7	21	
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.											2		
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PLANKTON DATA													
ARTHOPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae													
<i>Corycaeus amazonicus</i>			32	145	95	7							7
<i>Corycaeus anglicus</i>	320	101	256	145	95		101	168	87	58	138	313	100
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>					37								
<i>Corycaeus</i> spp.													
<i>Fairanula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>	22	1								2	2		
<i>Oithona plumifera</i>		1	32										7
<i>Oithona similis</i>	7	10							14		6		
<i>Oithona spinirostris</i>	29	1											
<i>Oithona</i> spp.				3				89		14		15	
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>				2									
<i>Oncaea media</i>			32										
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.	29									14		7	86
Copepoda harpacticoida			16										
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemestra rostrata</i>													
<i>Clytemestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>		2	32	3	51					4	2		
Copepoda monstrilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													7
Brachyura (zoea, megalopa)	14	35	112	80	301	181	30	72	16	11	22		

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION B5

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	13	4	71	20			12				14	3	7
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae										5		3	
Caprellidae													
Cirripedia	172	4	190	2	151	89	73		161	528	120	30	120
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	64				6	281				104	49	3	27
<i>Evadne spinifera</i>			60		6					5			
<i>Penilia avirostris</i>	414		24	1									300
<i>Podon polyphemoides</i>	19						267	211	56	2579	278	78	473
Copepoda calanoida			24		6	15	12		81				
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>									24		4	47	
<i>Acartia clausi</i>													
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	2551	395	929	134	1213	7469	4382	2454	1357	2315	521	426	1533
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>		4	48	9	13	15	85	87	12	5	4	3	33
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.							12						7
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>	6												
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION B5

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)	134	160	167	101	138	222	158	186	68	77	120	142	227
Copepoda cyclopoida													
Corycaeidae													
<i>Corycaeus amizonicus</i>													7
<i>Corycaeus anglicus</i>													
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>	19		12				12						
<i>Oithona plumifera</i>				6							18		13
<i>Oithona similis</i>		4	12						12		4		13
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.						30	12	74		11	4		
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>				2									
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.				4		15			12	5	7	3	40
Copepoda harpacticoida			12										
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>	6		36	4	13	44			12		4		20
Copepoda monstrilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)			12										
Brachyura (zoea, megalopa)	6	93	250	59	355	118	97	25	19	66	11	17	33

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION B6

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	9		16	15	10	22	21						6
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae				2									
Caprellidae													
Cirripedia	9	8	33		387	220	2216	1309	365	1881	229	100	11
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	56		5		10				3	17	6		11
<i>Evadne spinifera</i>	9												
<i>Penilia avirostris</i>	83	2					145	1230	48	1738	107	14	21
<i>Fedon polyphemoides</i>									12				96
Copepoda calanoida			11	2									
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>												315	
<i>Acartia clausi</i>	5			101	77						19	11	
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	2436	140	368	160	2340	7018	15445	2775	913	2926	767	688	3423
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>													
<i>Calanus tenuicornis</i>	5		27	6		22							
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													3
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PLANKTON DATA													
ARTHOPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeiidae													
<i>Corycaeus amazonicus</i>			16										
<i>Corycaeus anglicus</i>	361	122	220	142	77	440	41	113	60	17	35	251	107
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>	9	2	38				41	11					11
<i>Oithona plumifera</i>		2									9		
<i>Oithona similis</i>		6	11						9		6		11
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.			5				41	23		6			
Oncaeidae													
<i>Oncaea confifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.			5										
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemestra rostrata</i>													
<i>Clytemestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstrilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	79	36	93	75	435	880	186	11	48	17	6	11	75

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION B7

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	34	2	31	17		16		8		3			15
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae						8				1	1		
Caprellidae				4									
Cirripedia	54		61	126	212	583	41	387	338	55	98	50	
(nauplius, cypris)													
Cladocera													
<i>Evadne nondmanni</i>	102			4	126	44			51	2	3		
<i>Evadne spinifera</i>	7			4	8								
<i>Penilia avirostris</i>	362		4	4									39
<i>Podon polyphemoides</i>	7				165	179	123	965	42	140	197		4
Copepoda calanoida				11	16			53					
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>												56	
<i>Acartia clausi</i>	7		8	2	4			62		2	7		
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>												814	
<i>Acartia</i> spp.*	1767	521	321	184	786	3237	3520	1222	2138	256	156		621
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>	7		38	21	4	173	55	73		1			12
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION B7

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHOPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae				2									
<i>Corycaeus amasonicus</i>											1		
<i>Corycaeus anglicus</i>	150	47	92	153	173	526	121	122	9	4	7	269	131
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>	7		8			8				4	1		8
<i>Oithona plumifera</i>													8
<i>Oithona similis</i>	7		8						9		1	3	4
<i>Oithona spinirostris</i>	14								9				
<i>Oithona</i> spp.		2				47	11	8		2	1		
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.						8			9		1		4
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>										1	1		
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstrilloida	20	3	8	2	31	165	11	24		1			8
Monstrillidae												1	
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	20	35	84	98	342	330	88	49	44	17	3	45	35

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978.

STATION B7

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)		2	23	34	12	8		8	18	2	1	10	
Macura (zoea)													
Panaeida (zoea)													
Euphausiacea (calyptosis)		2						8				3	4
Isopoda													
Mysidacea	15	8	8	19	4	8							
Ostracoda				8			11			4			
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)				2	4			8	18	2			3
CNIDARIA													
Hydrozoa (medusae)	34		92	118	173				70	2			3
Siphonophora	7	5	15	103	31	33		8					
Scyphozoa													
CHAETOGNATH	14	3	15	10	55	22	22	41	9	2	1	101	112
CHORDATA													
Ascidiacea (larvae)													
Larvacea	109	133	344	17	247	39	44	33	114	90	3	3	4
<i>Oikopleura</i>							44	41	326	64	1	73	220
Thaliacea	14				4								15
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)		20	8	2	4								7
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)	7												
Ophiuroidea (ophiopluteus)	7									1			
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	89		15	8	24	11	11	16		2	1		19
Pteropoda													
Pelecypoda (veliger)	7		15	13									
NEMATODA													
NEMERTEA (pillidium)													
PHORONIDA (actinotroch)													

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												STATION B8
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
PLANKTON DATA	57		94		10	37	16	8	4			9	38
ANNELIDA POLYCHAETA													
ARTHOPODA CRUSTACEA													
Amphipoda													
Gammaridae										19			
Caprellidae													
Cirripedia	114	8		137	227	480	59	72	99	44	25	126	
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	185				44			7	11	972		12	
<i>Evadne spinifera</i>			276					4					
<i>Penilia avirostris</i>	1959	130	74	147	7	176	17	285	495	280	34	452	
<i>Podon polyphemoides</i>	14	2				144	34		44	566	12	25	
Copepoda calanoida		2			213						3		
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>											1398		955
<i>Acartia clausi</i>													
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp. *	2115	534	1246	2513	1709	1962	3922	1370	3201	2983			
Aetideidae													
<i>Aetideus armatus</i>													
<i>Echinirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>		2	4			51	240	109	14				12
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>		2											
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PLANKTON DATA													
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeiidae													
<i>Corycaeus amazonicus</i>		4	4		39								
<i>Corycaeus anglicus</i>	1462	114	193		195	205	320	59	25	33	53	16	377
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>					49	110							
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>		4											
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>		4							4		5		
<i>Oithona plumifera</i>		4	4										25
<i>Oithona similis</i>	14					22							
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.	14	2	37		20			17			5		44
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>		4											
<i>Oncaea</i> spp.			12		10	15	16	8		11	5		25
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>					20	22	16						
Copepoda monstrilloidea													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoaea)													
Anomura-porcellanidae (zoaea)													
Brachyura (zoaea, megalopa)	71	24	189		68	81	48	50	4	11			50

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

station B8

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)			70	10	7	16				11			6
Macura (zoea)													
Panaeida (zoea)					14								
Euphausiacea (calyptosis)													
Isopoda													
Mysidacea		2											
Ostracoda			25				8						6
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)		30	82	10	66	16	16	17	4		29		
CNIDARIA													
Hydrozoa (medusae)	57	36	12	724	147	16	16	92	28				12
Siphonophora			70										
Scyphozoa													
CHAETOGNATH													
Scyphozoa	156	44	33	10	51	16	16	29	44	102	75		126
CHORDATA													
Ascidiacea (larvae)													
Larvacea	582	76	1048	166	1027	400	400	67	126		19		364
<i>Oikopleura</i>													
Thaliacea	85	34	78	39		32							138
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)	14	4	95	10	7								6
CTENOPHORA													
Echinodermata													
Asteroidea (bipinnaria, brachiolaria)	42	2											
Echinoidea (echinopluteus)	28	32			7								
Holothuroidea (auricularia)		2											
Ophiuroidea (ophiopluteus)		8	12	10									18
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	156	2	140	68	51	16	16	17	4				113
Pteropoda													
Pelecypoda (veliger)			41		7								8
NEMATODA													
Nemertea (pillidium)													
Phoronida (actinotroch)													10

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION B9

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	40						15	104				59	24
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae										5			
Caprellidae													
Cirripedia													
(nauplius, cypris)	290		245	75	384	279	393	67	73	87	43	146	
Cladocera													
<i>Evadne nordmanni</i>			5	6	135	6	161	1046					108
<i>Evadne spinifera</i>	220		31		11								
<i>Penilia avirostris</i>	88		404	185		29	1035	242	782	1348	59	1205	
<i>Podon polyphemoides</i>						337	104	11	25				156
Copepoda calanoida	59				68								
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>	3			12				6	5				
<i>Acartia clausi</i>													
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp. *	378	987	1580	3373	4312	10870	788	636	8887	992	1530		
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>													
<i>Calanus tenuicornis</i>	30			22				331					34
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>	5												
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS December 1977-December 1978

STATION B9

PLANKTON DATA

Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

ARTHIPODA CRUSTACEA (cont.)

Copepoda calanoida (cont.)

Eucalanidae

*Eucalanus elongatus**Eucalanus* spp.*Rhinacalanus nasutus*

Lucicutiidae

Lucicutia flavicornis

Metridiidae

*Pleuromamma borealis**Pleuromamma gracilis**Pleuromamma* spp.

Paracalanidae

Paracalanus parvus

Pontellidae

*Labidocera jellae**Labidocera trispinosa**Pontellopsis occidentalis*

Pseudocalanidae

*Clausocalanus arcuicornis**Clausocalanus farrani**Clausocalanus furcatus**Clausocalanus jobei**Clausocalanus lividus**Clausocalanus mastigophorus**Clausocalanus parapergens**Clausocalanus paululus**Clausocalanus pergens**Clausocalanus* spp.*Ctenocalanus vanus*

Pseudocyclopidae

Pseudocyclops bilobatus

Pseudodiaptomidae

Pseudodiaptomus euryhalinus

Temoridae

Temora discaudata

Tortanidae

Tortanus discaudatus

Copepoda caligoida

5

918 251 223 417 1613 1532 239 328 713 347 1682

38 66 110 214 147 207 11 20 198 21 58

5

48 5

35

5

99 36

B94

15 3 3

6 14

16 6

5 12

8 24 11 3

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												STATION B9
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
PLANKTON DATA													
ARTHOPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeiidae													
<i>Corycaeus amazonicus</i>			27	10	23	11							3
<i>Corycaeus anglicus</i>			131	77	353	135	308	145	36	20	127	331	410
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.				26	29	56							
<i>Farranula curta</i>				5									
Oithonidae													
<i>Oithona nama</i>													
<i>Oithona oculata</i>						22	15	8					
<i>Oithona plumifera</i>			3	5							16		
<i>Oithona similis</i>			11					11				5	
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.			56	6	11		83	6	6	8			61
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.			35				73					5	10
Copepoda harpacticoida													7
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstrilloida													3
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)			118	87	179	56	44	104	8	16			64

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION B9

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)			46	15	17	11		21	3				3
Caridea (zoea)													
Macura (zoea)													
Penaeida (zoea)													
Euphausiacea (calyptosis)													
Isopoda				26									
Mysidacea													
Ostracoda	13							21					3
BRACHIOPODA (larvae)	3						132	41	17	5	127	27	3
BRYOZOA (cyphonautes)	91		66	12									
CNIDARIA													
Hydrozoa (medusae)	11		97	643	56		59	124	67			16	7
Siphonophora	83												7
Scyphozoa													
CHAETOGNATH	40		46	23	56		73	62	36	29	1316	517	159
CHORDATA													
Ascidiacea (larvae)				6									
Larvacea	470		368	35	2629	337		145	84	24	87	59	602
<i>Oikopleura</i>													
Thaliacea	35		5	58	22	73						32	115
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)	69		36	6	11				5				7
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)				5	6				3			5	3
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)	8												
Ophiuroidea (ophiopluteus)	21												
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	40		5	29	68	29		62			8		58
Pteropoda													
Pelecypoda (veliger)	13		10	6									3
NEMATODA													
NEMERTEA (pilidium)													
PHORONIDA (actinotroch)			5			11							

HARBORS ENVIRONMENTAL PROJECTS December 1977-December 1978 STATION B10

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	5	5	208	45	6			10	3	5			24
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprellidae													
Cirripedia	257	34	320	27	270	25		21	178	98	99	156	94
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	317							10	18	186	143	25	27
<i>Evadne spinifera</i>	38		128							41		3	15
<i>Penilia avirostris</i>	1175	298	128	21	53				3	20	55	240	589
<i>Fadon polyphemoides</i>	11	5						466	131	255	301	19	55
Copepoda calanoida			64	6	12				111	2			9
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>	16			6									
<i>Acartia clausi</i>	16												
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	891	293	336	669	1220	7015		1998	1332	1152	770	368	507
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>	5	5	144	21	201			62		12		9	73
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.											7		
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>	5												
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>	11	10											6
<i>Mecynocera clausi</i>													4
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Cardacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION B10

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae													
<i>Corycaeus amazonicus</i>	11	29	48		6						7		12
<i>Corycaeus anglicus</i>	410	54	144	282	176	654		155	24	173	279	193	224
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>					59								
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>		10	16										
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>								4					
<i>Oithona plumifera</i>		54	64	3	6			7	6	18			
<i>Oithona similis</i>	5							7					
<i>Oithona spinirostris</i>	11								3	10	7		3
<i>Oithona</i> spp.				18		25		21	3	3			
Oncaeidae													
<i>Oncaea confifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>			48										
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.	76	5						31	6	2			36
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>					5								
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>								10					
<i>Clytemnestra sautellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>	16		32	3	23	75			3				
Copepoda monstrilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)					6								
Anomura-porcellanidae (zoea)	16												
Brachyura (zoea, megalopa)	49	49	240	169	123	101		21	3	39	4	3	352

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION B10

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)		10	32	33	12	50			6	22	4	3	39
Macrura (zoea)													
Penaeidea (zoea)													
Euphausiacea (calyptosis)												3	
Isopoda													
Mysidacea	5				6								
Ostracoda				12	12			21					3
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)	137	108	32	6	12	25		52	48	3	15	6	48
CNIDARIA													
Hydrozoa (medusae)	11		16		147	201			42		4		
Siphonophora	22	54	112	149		25			4		4		15
Scyphozoa													
CHAETOGNATH	22	98	32	33	47	176		41	21	39	33	109	79
CHORDATA													
Ascidiacea (larvae)													
Larvacea	76	616	768	3	100	50		10	137	81	198	94	677
<i>Oikopleura</i>													
Thaliacea	76		144		65						15	115	604
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)	11	34	64	21	12					2			3
CTENOPHORA													21
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)		20											
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)	5		96									3	9
Ophiuroidea (ophiopluteus)			32							29	88		
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	38	20	48	18	29	50		10		2	4	12	39
Pteropoda	5												
Pelecypoda (veliger)		5	16	6	6	25			3			3	6
NEMATODA													
NEMERTEA (pillidium)			16										
PHORONIDA (actinotroch)			32										6

B100

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PLANKTON DATA	1	154	48									7	20
ANNELIDA POLYCHAETA													
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprellidae													
Cirripedia	18	19	161	11	422	54	143	65	145	208	1	200	185
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	6		7		77				47	408	1	5	53
<i>Evadne spinifera</i>			220		7				8			5	33
<i>Penilia avirostris</i>	448	104	117	22	48				7	76	1	227	1006
<i>Podon polyphemoides</i>	3					27	24	274	124	356	2	5	20
Copepoda calanoida			21	37	4			126			1		20
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>	6											560	463
<i>Acartia clausi</i>	3		7										
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	217	275	1137	548	950	7230	5066	3650	902	2544	6		
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>	3		161	4		135	238	104				5	53
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>			7										
<i>Calocalanus styliremis</i>	3		7										
<i>Calocalanus</i> spp.		1											
<i>Ischnocalanus tenuis</i>	3												
<i>Mecynocera clausi</i>	3	3	15										
Candaciidae													
<i>Candacee bipinnata</i>													
<i>Candacee curta</i>													
<i>Candacee</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS December 1977-December 1978

STATION B11

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae													
<i>Corycaeus amazonicus</i>		4	59		7				7	4			
<i>Corycaeus anglicus</i>	65	147	169	272	62	731	642	91	44	236	1	160	86
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>					37								
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>	1												
Oithonidae													
<i>Oithona nama</i>													
<i>Oithona oculata</i>	1												
<i>Oithona plumifera</i>	7	7	7	4	18							2	73
<i>Oithona similis</i>	1								7			2	
<i>Oithona spinirostris</i>	9	3										2	
<i>Oithona</i> spp.	9			7	4		24	39	4	28			
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.	6						24	13	11	12	1		112
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>	3												
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>	21	6	22		7	190				4			
Copepoda monstrilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoaea)													
Anomura-porcellanidae (zoaea)											1		7
Brachyura (zoaea, megalopa)	9	42	198	138	18	217	71	78		12		7	

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION B11

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)		9	22	34	4	108		13		8			
Macrura (zoea)													
Pennaeida (zoea)													
Euphausiacea (calyptosis)			7										7
Isopoda	3												
Mysidacea		4	15				24						
Ostracoda			7	19		27							7
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)	12	7	22	4	18		24	13	36	8		27	20
CNIDARIA													
Hydrozoa (medusae)					99	108	71		69			7	13
Siphonophora	6	37	125	93		27	24	26					
Scyphozoa													
CHAETOGNATH	30	34	22	26	22	135	48		7	72	4	107	46
CHORDATA													
Ascidiacea (larvae)													
Larvacea	12	97	205	15	205	27	143	39	153	112	1	50	880
<i>Oikopleura</i>									4				
Thaliacea	36		117		125		24					47	523
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)	3	6	38	7	7					4	1		7
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)	3												
Ophiuroidea (ophiopluteus)	3	1							11	40			
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	18	15	88	11	15	54		26	4	8		10	33
Pteropoda			7										
Pelecypoda (veliger)		10	22	15		27			7				
NEMATODA													
NEMERTEA (pillidium)													
PHORONIDA (actinotroch)								11					5

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HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION C1

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	6							4	9	2	2	4	48
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae												2	
Caprelliidae													
Cirripedia				4		18	6	14	129	21	8	11	64
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>								7	32	41	7	2	32
<i>Evadne spinifera</i>													16
<i>Peridinia avirostris</i>										2		63	272
<i>Pedon polyphemoides</i>	12						18	255	751	629	90	67	3152
Copepoda calanoida							37				1		
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>												339	
<i>Acartia clausi</i>				9						18			
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>												148	
<i>Acartia</i> spp.*	615	529	1135			3355	7517	1362	965	533	135		3840
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>							6	4					16
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>								4	3				
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													2
<i>Mecynocera clausi</i>													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

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**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION C1

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae													
<i>Corycaeus amanonius</i>													
<i>Corycaeus anglicus</i>													
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>									3				
<i>Oithona plumifera</i>								4	3				
<i>Oithona similis</i>			4			9	18	4			1		2
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.								7	26		1		16
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.									6				
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstilloidea													
Monstrellidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	30		116	66		55	24	35	9	2	2	14	64

HARBORS ENVIRONMENTAL PROJECTS December 1977-December 1978

STATION C1

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)			7	15		9	18	14	2	2			16
Macura (zoea)													
Penaeida (zoea)													
Euphausiacea (calyptosis)							12		3				
Isopoda							6						
Mysidacea	72		11	2									
Ostracoda			7										
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)				7		9	18	4	3	10			2
CNIDARIA													
Hydrozoa (medusae)	24		7	38		9	6	7	6	2	2		2
Siphonophora	6		127	2		9							
Scyphozoa													
CHAETOGNATH	12			6		9	86	11	3		2	69	128
CHORDATA													
Ascidiacea (larvae)								11	35	13	1		2
Larvacea	199		41	6			18	39	59	44	12	114	1232
<i>Oikopleura</i>													
Thaliacea												14	64
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)	6			4			43						16
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)													
Ophiuroidea (ophiopluteus)													
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	6			9		9	12						2
Pteropoda													
Pelecypoda (veliger)	6												
NEMATODA													
NEMERTEA (pilidium)													
PHORONIDA (actinotroch)													

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HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												STATION C2
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
PLANKTON DATA													
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeiidae													
<i>Corycaeus amazonicus</i>													
<i>Corycaeus anglicus</i>													
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.	26		28	36	273	124		126	22	44	11	40	88
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>					15								
<i>Oithona plumifera</i>								6					
<i>Oithona similis</i>						8			2	17	1		
<i>Oithona spinirostris</i>	2												
<i>Oithona</i> spp.			3					25	8				
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.													7
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemmestra rostrata</i>													
<i>Clytemmestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstrilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoaea)													
Anomura-porcellanidae (zoaea)													
Brachyura (zoaea, megalopa)	38		3	53	424	75		107	17		5	3	59

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION C2

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)			17	23	61	8		31				3	
Macrura (zoea)													
Penaeidea (zoea)													
Euphausiacea (calyptosis)												3	
Isopoda				2	15	8							
Mysidacea		6	3	2									
Ostracoda		2	10			8							15
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)		2		11	15			6	5		4		
CNIDARIA													
Hydrozoa (medusae)		7	3	25	30	33			2	6			
Siphonophora		7	220	15	17								
Scyphozoa		15	14	8	91	42		12	2		4	40	147
CHAETOGNATH													
CHORDATA													
Ascidiacea (larvae)				2					68	78	7		
Larvacea		90	21	15	895	8		107	27	84	17	19	689
<i>Oikopleura</i>												3	7
Thaliacea				2									
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)		7	3	8									7
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)													
Ophiuroidea (ophiopluteus)													
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)				2	46			19				1	6
Pteropoda													
Pelecypoda (veliger)		2	7	2	15				3				1
NEMATODA													
NEMERTEA (pilidium)													
PHORONIDA (actinotroch)													

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HARBORS ENVIRONMENTAL PROJECTS December 1977-December 1978 STATION C3

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae				1									
<i>Corycaeus amazonicus</i>													
<i>Corycaeus anglicus</i>	21	96	49	272	248	343	54	117	11	17	105		
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>				6									6
<i>Oithona oculata</i>													
<i>Oithona plumifera</i>				10	64		4	9	5				
<i>Oithona similis</i>													
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.	3	11					27						6
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													6
<i>Oncaea</i> spp.													6
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>				79	31	21	4	2					6
Copepoda monstrilloidea													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoaea)													
Anomura-porcellanidae (zoaea)	3												
Brachyura (zoaea, megalopa)	24	56	92	541	134	365	9	49	5	8	112		

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION C3

PLANKTON DATA

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Caridea (zoea)

Macura (zoea)

Penaeida (zoea)

Euphausiacea (calyptosis)

Isopoda

Mysidacea

Ostracoda

BRACHIOPODA (larvae)

BRYOZOA (cyphonautes)

CNIDARIA

Hydrozoa (medusae)

Siphonophora

Scyphozoa

CHAETOGNATH

CHORDATA

Ascidiacea (larvae)

Larvacea

Oikopleura

Thaliacea

Doliolum

Vertebrata

Osteichthys (eggs, larvae)

CTENOPHORA

ECHINODERMATA

Asteroidea (bipinnaria,

brachiolaria)

Echinoidea (echinopluteus)

Holothuroidea (auricularia)

Ophiuroidea (ophiopluteus)

MOLLUSCA

Cephalopoda

Octopoda

Gastropoda (veliger)

Pteropoda

Pelecypoda (veliger)

NEMATODA

NEMERTEA (pilidium)

PHORONIDA (actinotroch)

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HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION C4

PLANKTON DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	13	6	6	2	7						3		
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprellidae													
Cirripedia			2		22		29	168	46	39	14		
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>					7								
<i>Evadne spinifera</i>													
<i>Penilia avirostris</i>													
<i>Podon polyphemoides</i>							12	45	46	8			11
Copepoda calanoida													
(nauplius, copepodite)													
Acartiidae													1802
<i>Acartia californiensis</i>													
<i>Acartia clausi</i>				18									
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	280	462	350	5307	7807	9621	3150	3537	1183	694	78		1529
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>													
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.	13	16	5	203	34	6							28
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS December 1977-December 1978 STATION C4

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaelidae													
<i>Corycaeus amanonicus</i>													
<i>Corycaeus anglicus</i>	89		53	64	271	361	268	18	38	13	13	18	60
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>					27	45	134	6	7				
<i>Oithona plumifera</i>													
<i>Oithona similis</i>											5		
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.								18	21				11
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.													
Copepoda harpacticoida													
Ectinosomidae													
<i>Microrsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Glytemmestra rostrata</i>													
<i>Glytemmestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstrilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoaea)													
Anomura-porcellanidae (zoaea)													
Brachyura (zoaea, megalopa)	13	19	34	34	447	248	34	53	42	3	9	33	

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION C5

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	12			2						1	3		
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprellidae													
Cirripedia				3	22	42			57	11	13		1
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>													
<i>Evadne spinifera</i>													
<i>Penilia avirostris</i>											1		1
<i>Podon polyphemoides</i>									22	60			1
Copepoda calanoida	12												
(nauplius, copepodite)												3	
Acartiidae													
<i>Acartia californiensis</i>													206
<i>Acartia clausi</i>					24					1			
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*													
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>													
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curba</i>													
<i>Candacea</i> spp.													

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**Acartia tonsa* + *A. californiensis*.

PLANKTON DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
STATION C5													
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeiidae													
<i>Corycaeus amazonicus</i>				3									
<i>Corycaeus anglicus</i>	23	88	22	75	63	59	11	4	6				14
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>				6	21								
<i>Oithona oculata</i>													
<i>Oithona plumifera</i>						29							
<i>Oithona similis</i>	6									1	1		
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.							18						1
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.													
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	17	15		75	84		32	31	1				3

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION C6

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA	6				3			3			6		29
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae										5	2		
Caprellidae													
Cirripedia			4	140				9	15	5	6	5	7
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>													22
<i>Evadne spinifera</i>													
<i>Penilia avirostris</i>													147
<i>Podon polyphemoides</i>								3	3	19			1159
Copepoda calanoida											6		7
(nauplius, copepodite)													
Acartiidae												631	
<i>Acartia californiensis</i>												2	
<i>Acartia clausi</i>			6										
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>												10	1679
<i>Acartia</i> spp.*													
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>			103	12	3	98	29				2	2	22
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.									6				
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													2
Candaciidae													
<i>Candacea bipimata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

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**Acartia tonsa* + *A. californiensis*.

PLANKTON DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae													
<i>Corycaeus amazonicus</i>													
<i>Corycaeus anglicus</i>			110	63	210	73	205	9	9	2	7	7	139
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													7
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>					3	49							
<i>Oithona plumifera</i>				2			88	3	3				
<i>Oithona similis</i>			6					6			15	3	
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.					7			9	6				7
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.							29						
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemmestra rostrata</i>													
<i>Clytemmestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>					20	49	29	6					7
Copepoda monstrilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoaea)													
Anomura-porcellanidae (zoaea)													
Brachyura (zoaea, megalopa)	6	17	137	24	763	18	24	24	15	37			

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION C6

STATION C6

December 1977-December 1978

HARBORS ENVIRONMENTAL PROJECTS

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHOPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)	13	16	50	24	88	3	6	1					
Macrura (zoea)													
Panaeida (zoea)													
Euphausiacea (calyptosis)												2	
Isopoda													7
Mysidacea													7
Ostracoda													
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)							117	3					
CNIDARIA													
Hydrozoa (medusae)	84	156	83	49	59	3	98	6	15	61			
Siphonophora		1	13										
Scyphozoa													
CHAETOGNATH													
CHORDATA													
Ascidiacea (larvae)		7	3	24	440	18	15	1	24	7	154		
Larvacea		5	207	24				38	24	1	22		
<i>Oikopleura</i>								70	18	9	70	54	755
Thaliacea													59
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)													
CTENOPHORA	13	1			88					1	2		15
ECHINODERMATA		24											
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)													
Ophiuroidea (ophiopluteus)													
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	6	1										2	15
Pteropoda													
Pelecypoda (veliger)	45	2									6		
NEMATODA													
NEMERTEA (pilidium)													
PHORONIDA (actinotroch)													2

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HARBORS ENVIRONMENTAL PROJECTS December 1977-December 1978 STATION C7

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA									57	1	1	3	
ARTHOPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprellidae				2	91	66		48	170	21	18	6	
Cirripedia													
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>										3			
<i>Evadne spinifera</i>													
<i>Penilia avirostris</i>								36		102	5	6	115
<i>Podon polyphemoides</i>							32			1			
Copepoda calanoida	9												
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>												964	
<i>Acartia clausi</i>				89						1			
<i>Acartia danata</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	999	1225	578	2151	23577	16384	4460	24271	723	403	9	51184	
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>	3	88						12	28				
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION C7

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHOPODA CRUSTACEA (cont.)													
Copepoda calanoida (cont.)													
Eucalanidae													
<i>Eucalanus elongatus</i>													
<i>Eucalanus</i> spp.													
<i>Rhincalanus nasutus</i>													
Lucicutiidae													
<i>Lucicutia flavicornis</i>													
Metridiidae													
<i>Pleuromamma borealis</i>													
<i>Pleuromamma gracilis</i>													
<i>Pleuromamma</i> spp.													
Paracalanidae													
<i>Paracalanus parvus</i>	452	2180	412	468	664	1536	422	766	66	27	46	7271	
Pontellidae													
<i>Labidocera jollae</i>		9		42	7							28	
<i>Labidocera trispinosa</i>													
<i>Pontellopsis occidentalis</i>													
Pseudocalanidae													
<i>Clausocalanus arcuicornis</i>													
<i>Clausocalanus farrani</i>	6												
<i>Clausocalanus furcatus</i>													
<i>Clausocalanus jobei</i>													
<i>Clausocalanus lividus</i>													
<i>Clausocalanus mastigophorus</i>													
<i>Clausocalanus parapergens</i>													
<i>Clausocalanus paululus</i>													
<i>Clausocalanus pergens</i>													
<i>Clausocalanus</i> spp.													
<i>Ctenocalanus vanus</i>													
Pseudocyclopidae													
<i>Pseudocyclops bilobatus</i>													
Pseudodiaptomidae													
<i>Pseudodiaptomus euryhalinus</i>													
Temoridae													
<i>Temora discaudata</i>													
Tortanidae													
<i>Tortanus discaudatus</i>	9	.95	6	35		32		85	5	4	12	58	
Copepoda caligoida													

December 1977-December 1978

STATION C7

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida							192	12	85	4	4	3	231
Corycaeiidae													
<i>Corycaeus amazonicus</i>													
<i>Corycaeus anglicus</i>	30		176	80									
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>			14							4			
<i>Oithona plumifera</i>				2									
<i>Oithona similis</i>										1	2	3	
<i>Oithona spinirostris</i>								12	114				
<i>Oithona</i> spp.					7								
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.										1	1		
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>													
Pseudo-pelidiidae													
<i>Glytemmestra rostrata</i>													
<i>Glytemmestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstrilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoaea)				2									
Anomura-porcellanidae (zoaea)													
Brachyura (zoaea, megalopa)	15	14	14	62	195	100	384	84	85	4	28	58	58

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION C7

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)							32						
Caridea (zoea)			20	8									3
Macura (zoea)													
Panaeida (zoea)													
Euphausiacea (calyptosis)	12				14				28	1	1		
Isopoda													
Mysidacea			27	6									
Ostracoda			7	4	7								
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)													
CNIDARIA													
Hydrozoa (medusae)	260	318	256	153		32	32	12	57	17	9		58
Siphonophora		230		21				12					
Scyphozoa													
CHAETOGNATH				4		33	64			1	1	3	
CHORDATA													
Ascidiacea (larvae)	3		2	2		32	32	24	85	16	1	3	58
Larvacea	208	47	2	2	126	33		36	57	47	5	12	173
<i>Oikopleura</i>													
Thaliacea													
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)	3	7			7								
CTENOPHORA										1			
ECHINODERMATA				21									
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)													
Ophiuroidea (ophiopluteus)													
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)					14								28
Pteropoda													
Pelecypoda (veliger)													
NEMATODA													
NEMERTEA (pilidium)													
PHORONIDA (actinotroch)	3			2	35								

PLANKTON DATA	December 1977-December 1978												STATION C8		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
ANNELIDA POLYCHAETA				1	27			12		1	2		6		
ARTHROPODA CRUSTACEA															
Amphipoda															
Gammaridae				2					1						
Caprellidae															
Cirripedia				2	800	113		687	1227	24	46	4			
(nauplius, cypris)															
Cladocera															
<i>Evadne nordmanni</i>						11	22			1			3		
<i>Evadne spinifera</i>															
<i>Penilia avirostris</i>					27								1		
<i>Podon polyphemoides</i>						154	264	663	376	315	52	14	69		
Copepoda calanoida				1						1			1		
(nauplius, copepodite)															
Acartiidae															
<i>Acartia californiensis</i>											688				
<i>Acartia clausi</i>				6							1				
<i>Acartia danae</i>															
<i>Acartia negligens</i>															
<i>Acartia tonsa</i>															
<i>Acartia</i> spp.*												55	168		
Aetideidae															
<i>Aetideus armatus</i>															
<i>Euchirella pulchra</i>															
Calanidae															
<i>Calanus minor</i>															
<i>Calanus pacificus</i>															
<i>Calanus tenuicornis</i>															
<i>Calanus</i> spp.															
Calocalanidae															
<i>Calocalanus pavo</i>															
<i>Calocalanus styliremis</i>												3			
<i>Calocalanus</i> spp.															
<i>Ischnocalanus tenuis</i>															
<i>Mecynocera clausi</i>													3		
Candaciidae															
<i>Candacea bipinnata</i>															
<i>Candacea curta</i>															
<i>Candacea</i> spp.															

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												STATION C8
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
PLANKTON DATA													
ARTHOPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae													
<i>Corycaeus amazonicus</i>			6										1
<i>Corycaeus anglicus</i>			73	44	1053	361	198		22	6	8	32	16
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>										2	2		
<i>Oithona plumifera</i>													4
<i>Oithona similis</i>										2	2	4	
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.								12	7				8
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.													
Copepoda harpacticoida									2			1	
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemestra rostrata</i>													
<i>Clytemestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>			9	2	173	90			2				
Copepoda monstrilloidea													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	104	89	573	259	22	24	24	24	22	1	2	14	24

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION C9

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA							57						
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprellidae													
Cirripedia					1670	132		750	940	212	54	4	5
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>					11				6	13			5
<i>Evadne spinifera</i>													
<i>Pentilia avirostris</i>			3		11							1	10
<i>Podon polyphemoides</i>							115	260	478	276	34	20	165
Copepoda calanoida			3				306						
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>												212	
<i>Acartia clausi</i>				5						5			
<i>Acartia danue</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>												46	
<i>Acartia</i> spp.*		268	192	305	2516	8140	6217	3120	2244	461	604		955
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>													
<i>Calanus tenuicornis</i>			21				38		6				10
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													
<i>Acartia tonsa</i> + <i>A. californiensis</i> .													2

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**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION C9

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHIPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae			3										
<i>Corycaeus amazonicus</i>													
<i>Corycaeus anglicus</i>	22	49	70	361	154	153	10	148	51	24	29	200	
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>			6	22				6					
<i>Oithona plumifera</i>													
<i>Oithona similis</i>	1										2		
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.							10	6					5
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.													10
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemmestra rostrata</i>													
<i>Clytemmestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstrellioida	2	3		135	22								6
Monstrelliidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	50	70	183	158	418	287		60	16	8	17		35

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION C9

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)		24	64	42	11	22	19		22		2	4	10
Macura (zoea)													
Penaeida (zoea)													
Euphausiacea (calyptosis)													
Isopoda		1			22								
Mysidacea		12	9	2		57							
Ostracoda			3	2	68			11					
BRACHIOPODA (larvae)							19				2		
BRYOZOA (cyphonautes)													
CNIDARIA													
Hydrozoa (medusae)		29	3	14	56	66	38	11			5	4	
Siphonophora			58			44							
Scyphozoa													
CHAETOGNATH		1	21	6	22	66	76	6			14	20	40
CHORDATA													
Ascidiacea (larvae)		1					38	270	220	56	14	1	5
Larvacea		105	150	22	1794	198	287	130	88	43	58	54	640
<i>Oikopleura</i>													
Thaliacea												1	35
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)		8					19						10
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)													
Ophiuroidea (ophiopluteus)													
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)			3		56	176	19	28		3	3		
Pteropoda													
Pelecypoda (veliger)													
NEMATODA		2							6				
NEMERTEA (piliidium)													1
PHORONIDA (actinotroch)													

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HARBORS ENVIRONMENTAL PROJECTS PLANKTON DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHOPODA CRUSTACEA (cont.)													
Copepoda calanoida (cont.)													
Eucalanidae													
<i>Eucalanus elongatus</i>													
<i>Eucalanus</i> spp.													
<i>Rhincalanus nasutus</i>													
Lucicutiidae													
<i>Lucicutia flavicornis</i>													
Metridiidae													
<i>Pleuromanna borealis</i>													
<i>Pleuromanna gracilis</i>													
<i>Pleuromanna</i> spp.													
Paracalanidae													
<i>Paracalanus parvus</i>	84		854	330	867	1173	650	459	587	156	346	260	1552
Pontellidae													
<i>Labidocera jollae</i>													
<i>Labidocera trispinosa</i>	2		3	4	151	68		31	7	17			10
<i>Pontellopsis occidentalis</i>													
Pseudocalanidae													
<i>Clausocalanus arcuicornis</i>													
<i>Clausocalanus farrani</i>													
<i>Clausocalanus furcatus</i>			10										
<i>Clausocalanus jobei</i>			3										
<i>Clausocalanus lividus</i>													
<i>Clausocalanus mastigophorus</i>													
<i>Clausocalanus parapergens</i>													
<i>Clausocalanus paululus</i>													
<i>Clausocalanus pergens</i>													
<i>Clausocalanus</i> spp.			6										
<i>Ctenocalanus vanus</i>													
Pseudocyclopidae													
<i>Pseudocyclops bilobatus</i>													
Pseudodiaptomidae													
<i>Pseudodiaptomus euryhalinus</i>													
Temoridae													
<i>Temora discaudata</i>													
Tortanidae													
<i>Tortanus discaudatus</i>	3			2			27		7	2	9	8	12
Copepoda caligoida													

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												STATION C10
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
PLANKTON DATA													
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoidea													
Corycaeidae													
<i>Corycaeus amazonicus</i>													6
<i>Corycaeus anglicus</i>	16		45	56	251	90	108	37	119	29	25	50	302
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona ovalata</i>													
<i>Oithona plumifera</i>	5									5	4	5	
<i>Oithona similis</i>			3										
<i>Oithona spinirostris</i>				1				12	7				6
<i>Oithona</i> spp.													
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.				1			27						6
Copepoda harpacticoida	2												12
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemnestra rostrata</i>													
<i>Clytemnestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>			16		50	22							6
Copepoda monstrilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	48	28	93	452	135	54	12	28	2	11	38	56	

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION C10

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)	10	26	11	12	27	6	7					2	6
Macura (zoea)												2	
Panaeida (zoea)													
Euphausiacea (calyptosis)											2		
Isopoda			3										
Mysidacea	6												
Ostracoda			10	25									
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)				1									
CNIDARIA													
Hydrozoa (medusae)	18		20	25	22	27					2	5	
Siphonophora	6	57		25		6							
Scyphozoa													
CHAETOGNATH	6	3	2	63	68	162	21	25	21		14	45	88
CHORDATA													
Ascidiacea (larvae)	2												
Larvacea	181	105	28	1144	113	81	81	75	42	61	18	5	12
<i>Oikopleura</i>								119	196	42	64	88	672
Thaliacea													38
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)													
CTENOPHORA	6		11			54	6						6
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)				1									
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)													
Ophiuroidea (ophiopluteus)													
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	3		2	63	68	54				5			
Pteropoda													
Pelecypoda (veliger)			1			27							
NEMATODA													
NEMERTEA (pilidium)													
PHORONIDA (actinotroch)													1

HARBORS ENVIRONMENTAL PROJECTS December 1977-December 1978 STATION C11

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA		4	7		35	133		25		7			
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae													
Caprellidae													
Cirripedia				1	634	100		339	654	41	29	20	1
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>									6				
<i>Evadne spinifera</i>					18								
<i>Penilia avirostris</i>			11										
<i>Podon polyphemoides</i>								100	578	41	4	30	14
Copepoda calanoida		9					151			3			
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>												2670	
<i>Acartia clausi</i>				3						86	9	30	
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp. *												210	191
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>													
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
Ischnocalanus tenuis													
Mecynocera clausi													
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													
* <i>Acartia tonsa</i> + <i>A. californiensis</i> .													

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HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION C11

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHOPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae												10	
<i>Corycaeus amazonicus</i>												10	
<i>Corycaeus anglicus</i>												170	56
<i>Corycaeus flaccus</i>							126		11	21	7		
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>			4		53	33		6					
<i>Oithona plumifera</i>				1									
<i>Oithona similis</i>		8								3		40	
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.					18			6				10	5
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.													
Copepoda harpacticoida			7								7	20	7
Ectinosomidae													
<i>Microsetella norvegica</i>													2
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemmestra rostrata</i>													
<i>Clytemmestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>			7	2	53	199	25						
Copepoda monstrilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	22	11	22	211				6	6	10	5	40	27

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STATION C11

December 1977-December 1978

HARBORS ENVIRONMENTAL PROJECTS

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)			18	25	53		25			24	5	10	1
Macrura (zoea)													
Penaeida (zoea)													
Euphausiacea (calyptosis)													
Isopoda	4				53	100	25		3	4	10	2	
Mysidacea	13			6									
Ostracoda					106								
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)													
CNIDARIA													
Hydrozoa (medusae)	22	92	112	176			25		16	3	2	20	2
Siphonophora		150	1										
Scyphozoa													
CHAETOGNATH													
Chordata	4	4	4	3	18		50	6		7	14	50	7
ASCIDIACEA (larvae)													
Larvacea	202	216	20	1795	199		25	63	110	21	4	40	1
<i>Oikopleura</i>								75	66	48	11	170	231
Thaliacea													2
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)	4	4	4	2									2
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)											2		
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)													
Ophiuroidea (ophiopluteus)													
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)			4		106	66							
Pteropoda													
Pelecypoda (veliger)	4			1			25						
NEMATODA													
NEMERTEA (pilidium)													
PHORONIDA (actinotroch)													

PLANKTON DATA	December 1977-December 1978												STATION D1	
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		Dec
ANNELIDA POLYCHAETA	60		141											
ARTHROPODA CRUSTACEA														
Amphipoda														
Gammaridae														
Caprellidae														
Cirripedia	267	28	651	7	479	166	4	9	20	44	38	209	150	
(nauplius, cypris)														
Cladocera														
<i>Evadne nordmanni</i>	578		35	2	20	93		3	68	50	23	51		
<i>Evadne spinifera</i>	78		616									73	18	
<i>Penilia avirostris</i>	2830	50	352	86	64	10			64	3	28	604	642	
<i>Podon polyphemoides</i>	26						189	228	738	377	107		35	
Copepoda calanoida	17			12			4		25		2	6	18	
(nauplius, copepodite)														
Acartiidae														
<i>Acartia californiensis</i>														
<i>Acartia clausi</i>	9	6												
<i>Acartia danae</i>														
<i>Acartia negligens</i>														
<i>Acartia tonsa</i>														
<i>Acartia</i> spp.*												733		
Aetideidae														
<i>Aetideus armatus</i>														
<i>Euchirella pulchra</i>														
Calanidae														
<i>Calanus minor</i>														
<i>Calanus pacificus</i>														
<i>Calanus tenuicornis</i>	52		264	2	768	5487	9		860	685	91	34	31	
<i>Calanus</i> spp.														
Calocalanidae														
<i>Calocalanus pavo</i>														
<i>Calocalanus styliremis</i>														
<i>Calocalanus</i> spp.	9		18								1			
<i>Ischnocalanus tenuis</i>	9													
<i>Mecynocera clausi</i>	9	11	18	2									13	
Candaciidae														
<i>Candacea bipinnata</i>														
<i>Candacea curta</i>														
<i>Candacea</i> spp.														

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												STATION D1
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae													
<i>Corycaeus amazonicus</i>			176	10	10								
<i>Corycaeus anglicus</i>	371	110	282	254	68	704	141	13	10	35	48	322	53
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>					34								
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>													
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>													
<i>Oithona plumifera</i>			70	7							1	17	35
<i>Oithona similis</i>	9	6									1	23	4
<i>Oithona spinirostris</i>	78												
<i>Oithona</i> spp.				32		52	4	3		4			
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>			35										
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.	103		70						15				31
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Microsetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemestra rostrata</i>													
<i>Clytemestra scutellata</i>													
Tachididae													
<i>Euterpina acutifrons</i>	9		70		5	104					1		4
Copepoda monstrilloida													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)			18										
Brachyura (zoea, megalopa)	17	77	123	66	161	155	18	13	15	10	2	6	4

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION D1

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)		6	35	7	15	10			5	1		6	
Macura (zoea)													
Panaeida (zoea)													
Euphausiacea (calyptosis)													4
Isopoda													
Mysidacea		6	18	5		10							
Ostracoda				2		31							
BRACHIOPODA (larvae)			18										
BRYOZOA (cyphonautes)	121	11	106	5	15	31	9	2	15	3	13	220	
CNIDARIA													
Hydrozoa (medusae)	43		158		196	114	9	13	117		8	23	
Siphonophora	17	60	246	154		31	4					17	4
Scyphozoa													
CHAETOGNATH	78	38	53	71	68	155	13	2	10	7	17	102	40
CHORDATA													
Ascidiacea (larvae)													
Larvacea	242	138	1496	7	108	72	189	55	108	72	47	192	779
<i>Oikopleura</i>													
Thaliacea	241		282		49		4					372	510
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)	26	11	141	17			4	2		3	1		18
CTENOPHORA													18
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)	9		88										
Ophiuroidea (ophiopluteus)	9		35	2					5	32	27		
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	43	16	70	5	68	124					3	11	48
Pteropoda													4
Pelecypoda (veliger)	17		70	2	15	10						17	
NEMATODA													
NEMERTEA (pillidium)													
PHORONIDA (actinotroch)			35										

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HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PLANKTON DATA	3		126	93		16	5	29				3	
ANNELIDA POLYCHAETA													
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae									7				
Caprellidae													
Cirripedia	33	34	250	41	700	512	31		2	6	20	64	
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	152					80	4	15	185	11	5	312	
<i>Evadne spinifera</i>			25						29			8	
<i>Penilia avirostris</i>	118	59	151	77					2	3	31	392	
<i>Podon polyphemoides</i>	52						123	367	64	3	46	560	
Copepoda calanoida			25				1			3			
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>	1										31		
<i>Acartia clausi</i>										14			
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	426	1599	2162	1149	6629	4672	338	10369	438	1378	193	1664	
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>	3		75	5		16							32
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>	3												
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												STATION D2
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
PLANKTON DATA													
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeiidae													
<i>Corycaeus amazonicus</i>			50	20									
<i>Corycaeus anglicus</i>	56	122		258	78	320	8			12	11	3	80
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>			5										
Oithonidae													
<i>Oithona nama</i>													
<i>Oithona oculata</i>										1			
<i>Oithona plumifera</i>	1	15	50	14								2	16
<i>Oithona similis</i>		15								2	6	2	
<i>Oithona spinirostris</i>	1												
<i>Oithona</i> spp.			25	14			29			1	3		
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.	7					16							24
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemestra rostrata</i>													
<i>Clytemestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstrilloidea													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	4	93	101	151	59	368	5			2	3		2

PLANKTON DATA	December 1977-December 1978												STATION D3		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
ANNELIDA POLYCHAETA	24	5	132	122	5	11	1	3	9	3	2	2	11		
ARTHROPODA CRUSTACEA															
Amphipoda															
Gammaridae						5			1						
Caprellidae															
Cirripedia	142	17	203	42	458	279	3	3	8	17	1	7	76		
(nauplius, cypris)															
Cladocera															
<i>Evadne nordmanni</i>	582				14	43	5	10	65	21	11	11	130		
<i>Evadne spinifera</i>	28		70						5		3	3	22		
<i>Penilia avirostris</i>	2061		132	87	64				8	6	78	223	223		
<i>Podon polyphemoides</i>	61						40	194	68	31	22	22	217		
Copepoda calanoida	8	2	36	42	14				4	2	2	2	11		
(nauplius, copepodite)															
Acartiidae															
<i>Acartia californiensis</i>	4														
<i>Acartia clausi</i>	8														
<i>Acartia danae</i>															
<i>Acartia negligens</i>															
<i>Acartia tonsa</i>															
<i>Acartia</i> spp.*	603	1242	1188	1889	1444	3413	30	85	88	121	56	136	1602		
Aetideidae															
<i>Aetideus armatus</i>															
<i>Euchirella pulchra</i>															
Calanidae															
<i>Calanus minor</i>															
<i>Calanus pacificus</i>	12		282			75						1	11		
<i>Calanus tenuicornis</i>															
<i>Calanus</i> spp.															
Calocalanidae															
<i>Calocalanus pavo</i>															
<i>Calocalanus styliremis</i>															
<i>Calocalanus</i> spp.															
<i>Ischnocalanus tenuis</i>	4														
<i>Mecynocera clausi</i>	4														
Candaciidae															
<i>Candacea bipinnata</i>															
<i>Candacea curta</i>															
<i>Candacea</i> spp.															

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												STATION D3
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
PLANKTON DATA													
ARTHROPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeidae													
<i>Corycaeus amazonicus</i>		2	26	182	18	118	7	8	1	17	4	35	98
<i>Corycaeus anglicus</i>	187	252	44	182	18								
<i>Corycaeus flaccus</i>													
<i>Corycaeus giesbrechti</i>					41								
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>		2											
Oithonidae													
<i>Oithona nama</i>									1			1	
<i>Oithona oculata</i>													22
<i>Oithona plumifera</i>		5		31	14				5		1	2	
<i>Oithona similis</i>				10									
<i>Oithona spinirostris</i>													
<i>Oithona</i> spp.		5	26	7	5			4					5
Oncaeidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>			35										
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.	61	7											22
Copepoda harpacticoida													
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemestra rostrata</i>													
<i>Clytemestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>									1				
Copepoda monstrilloidea													
Monstrillidae													
Cumacea													
Decapoda													
Anomura (zoea)													
Anomura-porcellanidae (zoea)													
Brachyura (zoea, megalopa)	16	193	70	297	50	75	4	3	5	1	1	1	5

HARBORS ENVIRONMENTAL PROJECTS

December 1977-December 1978

STATION D3

PLANKTON DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ARTHROPODA CRUSTACEA (cont.)													
Decapoda (cont.)													
Caridea (zoea)	4	37	9	14	5			3		1			
Macrura (zoea)													
Panaeidea (zoea)													
Euphausiacea (calyptosis)	4												
Isopoda													
Mysidacea		39		10	11								
Ostracoda				14		1							
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)	16	2	18	10	5	64	2	3	4	4	3	10	16
CNIDARIA													
Hydrozoa (medusae)	28		35		197	43		1	17			1	
Siphonophora	16	127	194	349		22		1					16
Scyphozoa													
CHAETOGNATH	37	59	18	94	41	129	1	5	1	1	8	35	49
CHORDATA													
Ascidiacea (larvae)													
Larvacea	187	90	1118	21	160	11	16	21	49	74	13	81	543
<i>Oikopleura</i>													
Thaliacea	212		211		41							11	483
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)	20	5	9	24	5				1			1	11
CTENOPHORA													
ECHINODERMATA													
Asteroida (bipinnaria, brachiolaria)		5											
Echinoidea (echinopluteus)													
Holothuroidea (auricularia)	4		35		5								
Ophiuroidea (ophiopluteus)		12	27	14	5				3	37		1	
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	37	71	26		9	64			1			6	11
Pteropoda													
Pelecypoda (veliger)	4	10	26	7		11						1	
NEMATODA													
NEMERTEA (pilidium)													
PHORONIDA (actinotroch)			9							1		2	5

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PLANKTON DATA	December 1977-December 1978												STATION D10
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
ANNELIDA POLYCHAETA	4		158	59	10		2	10		2	2	3	
ARTHROPODA CRUSTACEA													
Amphipoda													
Gammaridae		7		6			5						
Caprellidae													
Cirripedia		20	176	31	114		9	5	7	17	4	1	135
(nauplius, cypris)													
Cladocera													
<i>Evadne nordmanni</i>	60					1	10	25	10	11	11	1	42
<i>Evadne spinifera</i>			35										
<i>Penilia avirostris</i>	82	555	211	34	41			7	3	13	13	3	186
<i>Podon polyphemoides</i>	19					23	476	30	151	9	18	18	2285
Copepoda calanoida	9		48	8			5	2					
(nauplius, copepodite)													
Acartiidae													
<i>Acartia californiensis</i>												117	
<i>Acartia clausi</i>	7		35	11								1	
<i>Acartia danae</i>													
<i>Acartia negligens</i>													
<i>Acartia tonsa</i>													
<i>Acartia</i> spp.*	382	805	3854	920	6067	72	1944	40	276	264	21	1125	
Aetideidae													
<i>Aetideus armatus</i>													
<i>Euchirella pulchra</i>													
Calanidae													
<i>Calanus minor</i>													
<i>Calanus pacificus</i>			53	28		1	5						17
<i>Calanus tenuicornis</i>													
<i>Calanus</i> spp.													
Calocalanidae													
<i>Calocalanus pavo</i>													
<i>Calocalanus styliremis</i>													
<i>Calocalanus</i> spp.													
<i>Ischnocalanus tenuis</i>													
<i>Mecynocera clausi</i>													2
Candaciidae													
<i>Candacea bipinnata</i>													
<i>Candacea curta</i>													
<i>Candacea</i> spp.													

**Acartia tonsa* + *A. californiensis*.

HARBORS ENVIRONMENTAL PROJECTS	December 1977-December 1978												STATION D10
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
PLANKTON DATA													
ARTHIPODA CRUSTACEA (cont.)													
Copepoda cyclopoida													
Corycaeiidae													
<i>Corycaeus amazonicus</i>	2		18	2							4		
<i>Corycaeus anglicus</i>	14	95	88	131	21	10	97	5	3	18	5	51	
<i>Corycaeus flaccus</i>				2									
<i>Corycaeus giesbrechti</i>													
<i>Corycaeus</i> spp.													
<i>Farranula curta</i>		7											
Oithonidae													
<i>Oithona nana</i>													
<i>Oithona oculata</i>		7					5						
<i>Oithona plumifera</i>	1		35	4						2			
<i>Oithona similis</i>		7		6				5	2				8
<i>Oithona spinirostris</i>		14											
<i>Oithona</i> spp.							15			1			
Oncaecidae													
<i>Oncaea conifera</i>													
<i>Oncaea dentipes</i>													
<i>Oncaea media</i>													
<i>Oncaea mediterranea</i>													
<i>Oncaea minuta</i>													
<i>Oncaea venusta</i>													
<i>Oncaea</i> spp.			18						3				17
Copepoda harpacticoida	2			2						1			
Ectinosomidae													
<i>Microsetella norvegica</i>													
<i>Mictosetella rosea</i>													
Pseudo-pelidiidae													
<i>Clytemestra rostrata</i>													
<i>Clytemestra scutellata</i>													
Tachidiidae													
<i>Euterpina acutifrons</i>													
Copepoda monstrilloidea													
Monstrillidae													
<i>Euterpina acutifrons</i>													
Cumacea													
Decapoda													
Anomura (zoaea)													
Anomura-porcellanidae (zoaea)													
Brachyura (zoaea, megalopa)	3	34	88	82	135	8	61	2	19	2	5	25	

HARBORS ENVIRONMENTAL PROJECTS PLANKTON DATA ARTHROPODA CRUSTACEA (cont.)	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Decapoda (cont.)													
Caridea (zoea)	1	20	35	19	10			41		6	5	1	8
Macrura (zoea)													
Penaeida (zoea)									12				
Euphausiacea (calyptosis)													
Isopoda		7		2									
Mysidacea		41	42										
Ostracoda						1							
BRACHIOPODA (larvae)													
BRYOZOA (cyphonautes)	2	34		13		2		2	1	44	4	17	
CNIDARIA													
Hydrozoa (medusae)	4		123	199	62			10	13		4	1	
Siphonophora	1	250	88	8									
Scyphozoa													
CHAETOGNATH	9	61	18	25	93	6	20	5	7	33	85		
CHORDATA													
Ascidiacea (larvae)													
Larvacea	22	1360	2006	8	114	6	174	33	2	9	2	64	8
<i>Oikopleura</i>													
Thaliacea			11	114									
<i>Doliolum</i>													
Vertebrata													
Osteichthys (eggs, larvae)													
CTENOPHORA			53	11			10			3			
ECHINODERMATA				42									
Asteroida (bipinnaria, brachiolaria)													
Echinoidea (echinopluteus)													
Holothuridea (auricularia)			35	2									8
Ophiuroidea (ophiopluteus)		20		8						2	9		
MOLLUSCA													
Cephalopoda													
Octopoda													
Gastropoda (veliger)	1		18	8				2				1	
Pteropoda				2									
Pelecypoda (veliger)		20		6									
NEMATODA													
NEMERTEA (pilidium)				4									
PHORONIDA (actinotroch)				4				3					1

BENTHIC ORGANISMS
LOS ANGELES AND LONG BEACH HARBORS
QUARTERLY - 1978

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>			16	
<i>Amphicteis scaphobranchiata</i>		16		
<i>Melinna oculata</i>				16
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>	48		16	16
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.	16			
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	32	32	80	
<i>Notomastus tenuis</i>	48	32	16	
Chaetopteridae				
<i>Spiochaetopterus costarum</i>			48	
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	16		16	16
<i>Chaetozone setosa</i>			192	
<i>Cirratulus cirratus</i>				
<i>Cirriiformia luxuriosa</i>				
<i>Tharyx</i> sp.	224	176	192	32
Cossuridae				
<i>Cossura candida</i>	16		32	
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>	16			
<i>Glycera capitata</i>	16			
<i>Glycera convoluta</i>				16
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>		16		
<i>Glycera</i> sp. (juv.)			16	
Goniodidae				
<i>Glycinde armigera</i>				32

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>	32			16
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	16	16		16
<i>Gyptis brunnea</i>				
<i>Ophiiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	112	32	64	32
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>	16		16	16
<i>Asychis</i> sp.				
<i>Aziothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>	16			
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	16			
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	144	96	64	144
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>			16	
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>		16		
<i>Nothria iridescens</i>	16			32
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>	16			
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>	16		16	16
Oweniidae				
<i>Owenia collaris</i>	16			
Paraonidae				
<i>Acesta catherinae</i>			16	
<i>Acesta cerrutti</i>				
<i>Acesta horikoshii</i>	48			
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i> (= <i>Paraonis gracilis oculata</i>)			16	

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>				16
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatae</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.	48		48	
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>	16			
<i>Sigambra tentaculata</i>				
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus</i> sp. (branchiate)	16			
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>				
<i>Harmothoe priops</i>				
<i>Harmothoe scriptoria</i>		16		
<i>Harmothoe</i> sp.			16	
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>	16			
<i>Chone veleronis</i>				16
<i>Chone</i> sp.	48	48	16	16
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>				
<i>Magelomma pigmentum</i>				
<i>Miricola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>	16	32		
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>			16	
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelle uniformis</i>	16	16		
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	32	16		
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	80	128	16	48
<i>Polydora biocipitalis</i>		16		
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)	16	16		16
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>			80	
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>			48	
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)	256	160	16	64
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>	48			
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	16	16	16	
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.		16		
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.			32	
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>		16		
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>	48			
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>				
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea		32		128
<i>Ampelisca cristata</i>	32		32	32
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>	16			
<i>Argissa hamatipes</i>	32			
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>			16	
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.	48		16	
<i>Photis</i> sp.			80	
Copepoda-Canaloida			16	
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>				
Copepoda-Harpacticoida				
Cumacea	16	16	16	
Bodotriidae				
<i>Cyclaspis</i> sp.				16
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Ocyurostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.	16		16	
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.			16	
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>	16	16	16	
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Decapoda (cont.)				
Brachyura (cont.)				
Pinnotheridae (cont.)				
<i>Pinnixa tubicola</i>		32		
<i>Pinnixa</i> sp.				
<i>Scleroplax granulata</i>				
Caridea				
Alpheidae				
<i>Alpheus californiensis</i>				
<i>Betaeus ensenadensis</i>				
<i>Betaeus harrimani</i>				
<i>Betaeus ?longidactylus</i>				
<i>Betaeus</i> sp.				
Crangonidae				
<i>Crangon ?nigromaculata</i>				
Hippolytidae				
<i>Heptacarpus</i> sp.				
Macrura				
Callinassidae				
<i>Callinassa</i> sp.	32			
<i>Upogebia</i> sp.				
Isopoda				
<i>Gnathia crenulatifrons</i>	32			
<i>Gnathia</i> sp.				
<i>Muna</i> sp.				
<i>Serolis carinata</i>				
<i>Serolis</i> sp.				
Mysidacea				
Ostracoda				
			16	
Cylindroleberdinae				
<i>Euphilomedes carcharodonta</i>	32	32	48	80
<i>Philomedes</i> sp.				
<i>Rutidderma rostrata</i>				
<i>Sarsiella</i> sp.				
<i>Scleroconcha</i> sp.				
Tanaidacea				
<i>Leptochelia</i> sp.				
Thoracica (barnacle)				
<i>Balanus tintinnabulum californicus</i>				
<i>Balanus</i> sp.				
ARTHROPODA PYCNOGONIDA				
<i>Anoplodactylus erectus</i>				
<i>Callipallene californiensis</i>				
ASCHELMINTHES				
Nematoda				
BRACHIOPODA				
<i>Glottidia albida</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A1

6 Jan 10 Apr 10 Jul 13 Oct
1978 1978 1978 1978

BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

32

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

48

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

96

48

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

32

ECHIURA

Listriolobus pelodes

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

16

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A1

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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MOLLUSCA (cont.)

Cephalaspidea (cont.)

Aglaja sp.
Cylichna diegensis
Gastropteron pacificum
Retusa sp.
Rictaxis punctocaelatus
Sulcoretusa sp.
Volvulella ?cylindrica
Volvulella panamica
Volvulella sp.

Pyramidellida

Odostomia sp.
Turbonilla sp.

Prosobranchia

Mesogastropoda

Caecidae

Caecum sp.
Fartulum sp.

Calyptraeidae

Crepidula dorsata
(=*Crepipatella lingulata*)
Crepidula sp.

Naticidae

Neverita reclusiana

Vitrinellidae

Vitrinella oldroydi

Neogastropoda

Nassariidae

Nassarius fossatus
Nassarius mendicus
Nassarius perpunguis

Olividae

Olivella baetica

Turridae

Kurtziella plumbea

Pelecypoda (juv.)

Cardiidae

Laevicardium substriatum

Cooperellidae

Cooperella subdiaphana

Corbulidae

Corbula luteola
Corbula sp.

Hiatellidae

Hiatella arctica

Kelliidae

?*Bornia* sp.

Leptonidae

"*Lepton meroeum*"

16

Lucinidae

Lucina nuttalli
Parvilucina tenuisculpta
(=*Parvilucina* sp.)

80

16

112

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A1

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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MOLLUSCA (cont.)

Pelecypoda (cont.)

Lyonsiidae

Lyonsia californica

Mactridae

*Mactra californica**Spisula* sp.*Tresus nuttalli*

Montacutidae

*Mysella grippi**Mysella pedroana*

16

32

Mysella sp.

Myidae

*Cryptomya californica**Platydon cancellatus*

Mytilidae

Crenella divaricata

16

Crenella sp.*Magacrenella columbiana*

Nuculanidae

Nuculana sp.

Pandoridae

Pandora sp.

Pectinidae

Leptopecten latiauratus

16

Periplomatidae

Periploma planiusculum

Petricolidae

Petricola sp.

Psammobiidae

?Gari californica

Semelidae

*Cumingia californica**Theora lubrica*

Solecurtidae

*Tagelus californianus**Tagelus subteres*

Solenidae

Ensis myrae

16

*Siliqua lucida**Solen rosaceus**Solen sicarius**Solen* sp.

Tellinidae

*Leporimetis obesa**Macoma acolasta**Macoma carlottensis**Macoma indentata**Macoma nasuta**Macoma* sp. (juv.)*Tellina carpenteri**Tellina idae*

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				16
<i>Tellina</i> sp. (juv.)	64			
Thraciidae				
<i>Thracia curta</i>	32			48
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>				
Veneridae				
<i>Compsomyax subdiaphana</i>				
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	32	32	80	16
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.				16
<i>Phoronopsis</i> sp.		16		
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera		96		
SIPUNCULIDA		16	32	

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>	32			96
<i>Melinna oculata</i>				16
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>	16			
Capitellidae				
<i>?Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	112	160	1616	896
<i>Notomastus tenuis</i>	144	112	32	112
Chaetopteridae				
<i>Spiochaetopterus costarum</i>			48	32
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>				
<i>Chaetozone setosa</i>				16
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	672	608	96	480
Cossuridae				
<i>Cossura candida</i>	176	144	3456	112
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>		16		
<i>Marphysa disjuncta</i>	112	16	32	16
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>		16	16	16
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rousii</i>				
<i>Glycera</i> sp. (juv.)				16
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	16	16	64	
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	176	224	96	144
Magelonidae				
<i>Magelona pacifica</i>	80	16		
<i>Magelona pitelkai</i>				112
Maldanidae				
	16	32	16	
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				16
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	176	112	112	64
<i>Nephtys ferruginea</i>	16			
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	160	96	16	224
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>	64	16	320	
Oweniidae				
<i>Owenia collaris</i>	16			
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>			16	
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	48	16	224	176
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>	160		16	
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.		16		16
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>		112	96	128
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>	48			
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>	16			
<i>Harmothoe priops</i>				16
<i>Harmothoe scriptoria</i>				16
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.		116		
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>	48			
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelia uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	16	16	16	
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	80	16	16	80
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	128	64	208	368
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>				96
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)		16		16
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>	16			16
<i>Spiophanes bombyx</i>				16
<i>Spiophanes missionensis</i>	16			
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				32
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>		16		
<i>Pista ?disjuncta</i>				
<i>Pista fasciata</i>				32
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	64	80		48
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				16
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea			16	16
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphidentopus oculatus</i>			32	
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				16
<i>Listriella goleta</i>	48			
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida				
Copepoda-Cyclopoida	32			
<i>Clausidium vancouverense</i>				16
Copepoda-Harpacticoida				
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyrostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>			48	48
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A2

6 Jan
197810 Apr
197810 Jul
197813 Oct
1978

ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

48

112

80

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

16

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.*Upogebia* sp.

160

96

32

32

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

Ostracoda

Cylindroleberdinae

*Euphilomedes carcharodonta**Philomedes* sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

16

16

16

Tanaidacea

Leptocheilia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

16

16

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?Stylatula elongata

16

16

Virgularia nr. *reinwardi*

32

Ceriantharia

Botrucnidifer sp.*Pachycerianthus* sp.

Hydrozoa - Hydroida

*Bimeria robusta**Corymorpha aurata**Obelia dichotoma*

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

32

32

*Amphiodia ?occidentalis**Amphiodia urtica**Amphiodia* sp. (juv.)

ECHIURA

Listriolobus pelodes

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

16

*Acteocina culcitella**Acteocina harpa**Aglaja ocelligera*

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaia</i> sp.				
<i>Cylichna diegensis</i>				16
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>				
<i>Sulcoretusa</i> sp.			208	
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>		16	16	
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Turbonilla</i> sp.				
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.			32	
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>			16	16
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>				
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>	32	48	208	16
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>				
Corbulidae				
<i>Corbula luteola</i>			16	
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
"Lepton meroeum"	16		224	16
Lucinidae				
<i>Lucina nuttalli</i>				
<i>Parvilucina tenuisculpta</i>	80	32	48	80
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae	16			
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>			32	
Montacutidae				
<i>Mysella grippi</i>				16
<i>Mysella pedroana</i>	16	16	64	
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.	16	16		
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>	32		16	
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>	32			
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>	32	16		48
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>	16			
<i>Macoma</i> sp. (juv.)	16	48		
<i>Tellina carpenteri</i>				
<i>Tellina ida</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				64
<i>Tellina</i> sp. (juv.)				
Thraciidae				
<i>Thracia curta</i>	16		32	
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>	16	48	16	
Veneridae				
<i>Compsomyax subdiaphana</i>	16	16	16	
<i>Protothaca staminea</i>			32	
<i>Protothaca</i> sp. (juv.)	16	16		
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	16	16		
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	16			128
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				16
<i>Amphicteis scaphobranchiata</i>	48		16	16
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				16
Capitellidae				
? <i>Anotomastus gordioides</i>			16	
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.	32			
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	832	128	1104	3568
<i>Notomastus tenuis</i>		16	128	64
Chaetopteridae				
<i>Spiochaetopterus costarum</i>		32		
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>		64		48
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	1152	2576	1552	1136
Cossuridae				
<i>Cossura candida</i>	224	176	288	1984
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>		16	32	
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rourii</i>				
<i>Glycera</i> sp. (juv.)				
Gonioididae				
<i>Glycinde armigera</i>			16	

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				32
<i>Goniada littorea</i>				16
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	48		64	32
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	112	160	80	80
Magelonidae				
<i>Magelona pacifica</i>	16			
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiothella</i> sp.			32	
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				16
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	16		16	48
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	128	48	64	
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>		16		
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>			16	
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				32
Orbiniidae				
<i>Haploscoloplos elongatus</i>	368	80	208	32
Oweniidae				
<i>Owenia collaris</i>			16	
Paraonidae				
<i>Acesta catherinae</i>			16	
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>	16			
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	64	16	48	64
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>				
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>			16	
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.	16			32
Pilargiidae				
<i>Ancistroyllis hamata</i>			32	
<i>Pilargis berkeleyi</i>	16			
<i>Sigambra tentaculata</i>	64	48		48
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>	16			
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>				
<i>Harmothoe priops</i>		16		
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.		16	16	
<i>Euchone incolor</i>				16
<i>Eucone limnicola</i>				
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelia uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>		16	16	
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	48	32		
<i>Polydora biocapitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)		16		
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	176	288	688	1456
<i>Prionospio heterobranchia</i>			16	
<i>Prionospio pygmaeus</i>			16	16
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)				
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	16			80
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>	16			
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>			16	
Trichobranchiidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				16
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea				
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>	432	32	16	48
<i>Argissa hamatipes</i>			16	32
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>	16	32		
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida				
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>			16	224
Copepoda-Harpacticoida				
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>				16
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				32
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				16
<i>Pinnixa littoralis</i>			16	
<i>Pinnixa longipes</i>	16			
<i>Pinnixa schmitti</i>	16			
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A3

6 Jan 10 Apr 10 Jul 13 Oct
1978 1978 1978 1978

ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

32

16

16

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.

16

64

32

Upogebia sp.

Isopoda

16

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

Ostracoda

16

48

Cylindroleberdinae

Euphilomedes carcharodonta

96

16

192

16

640

Philomedes sp.*Rutidderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

16

16

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A3

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

ECHIUURA

Listriolobus pelodes

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

16

32

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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MOLLUSCA (cont.)

Cephalaspidea (cont.)

<i>Aglaja</i> sp.			16	
<i>Cylichna diegensis</i>				
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>		16	16	
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>				
<i>Volvulella</i> sp.				

Pyramidellida

<i>Odostomia</i> sp.				
<i>Turbonilla</i> sp.				

Prosobranchia

Mesogastropoda

Caecidae

<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				

Calyptraeidae

<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				

Naticidae

<i>Neverita reclusiana</i>				
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Vitrinellidae

<i>Vitrinella oldroydi</i>			16	
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Neogastropoda

Nassariidae

<i>Nassarius fossatus</i>				16
<i>Nassarius mendicus</i>				
<i>Nassarius perpinguis</i>				

Olividae

<i>Olivella baetica</i>	16		16	
-------------------------	----	--	----	--

Turridae

<i>Kurtziella plumbea</i>				
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Pelecypoda (juv.)

Cardiidae

<i>Laevicardium substriatum</i>				
---------------------------------	--	--	--	--

Cooperellidae

<i>Cooperella subdiaphana</i>				
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Corbulidae

<i>Corbula luteola</i>				
<i>Corbula</i> sp.				

Hiatellidae

<i>Hiatella arctica</i>				
-------------------------	--	--	--	--

Kelliidae

? <i>Bornia</i> sp.				
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Leptonidae

" <i>Lepton meroeum</i> "				
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Lucinidae

<i>Lucina nuttalli</i>	16		32	
<i>Parvilucina tenuisculpta</i>	320	96	160	
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct. 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>			16	
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>	16		32	
<i>Mysella</i> sp.	16			
Myidae				
<i>Cryptomya californica</i>				64
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.			16	
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>			16	
Periplomatidae				
<i>Periploma planiusculum</i>		16		
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>				16
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>	16			
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				16
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>	16	16	16	
<i>Macoma acolasta</i>	16	32	48	16
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>		16		
<i>Macoma</i> sp. (juv.)			80	
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>	64			48
<i>Tellina</i> sp. (juv.)			32	
Thraciidae				
<i>Thracia curta</i>	48	16	80	
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>	16	32	32	
Veneridae				
<i>Compsomyax subdiaphana</i>				
<i>Protothaca staminea</i>				48
<i>Protothaca</i> sp. (juv.)	16			
<i>Saxidomus nuttali</i>		16		
<i>Saxidomus</i> sp. (juv.)		16		
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	32	48		64
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.	16			
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	672		16	
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				16
<i>Amphicteis scaphobranchiata</i>				64
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	48	32	32	
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	5760	2048	5168	464
<i>Notomastus tenuis</i>	144			48
Chaetopteridae				
<i>Spiochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>				
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	128	16	32	
Cossuridae				
<i>Cossura candida</i>		16	48	
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				16
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>	48	16	16	
<i>Glycera capitata</i>	48			
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				48
<i>Glycera robusta</i>				
<i>Glycera rouxi</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>	16			
<i>Goniada littorea</i>	64			48
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>			112	16
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	32			32
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>	16			
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>		16		
<i>Nephtys ferruginea</i>	16			16
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>				
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				16
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>				64
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>	16			
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>				
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>	16	16	32	48
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>	16			
<i>Eteone dilatata</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	128			
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>				
<i>Harmothoe priops</i>				
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.				
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>				
<i>Magelomma pigmentum</i>				
<i>Miricola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelia uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>				
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)		16		
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>			16	
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	1200	9104	5552	960
<i>Prionospio heterobranchia</i>				32
<i>Prionospio pygmaeus</i>				16
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)	160			
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	480	32	16	
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amatea occidentalis</i>				
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>				
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae		16		
<i>Caprella equilibra</i>	64			16
<i>Caprella</i> sp.			96	

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea				
				32
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>			16	
<i>Corophium acherusicum</i>				
<i>Eriothonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				16
Copepoda-Canaloida				
Copepoda-Cyclopoida				
	16			
<i>Clausidium vancouverense</i>			304	
Copepoda-Harpacticoida				
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.			16	
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>	16	48		32
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae	16			
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>			16	
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

	96	16	416	
--	----	----	-----	--

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

16

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.*Upogebia* sp.

16 96

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

Ostracoda

Cylindroleberdinae

Euphilomedes carcharodonta

32 16 16 112

Philomedes sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptocheilia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA FYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

16 16

BRACHIPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS

STATION A4

BENTHIC DATA

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

16

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

16

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

ECHIUURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A4

6 Jan
197810 Apr
197810 Jul
197813 Oct
1978

MOLLUSCA (cont.)

Cephalaspidea (cont.)

Aglaja sp.*Cylichna diegensis**Gastropteron pacificum**Retusa* sp.*Rictaxis punctocaelatus**Sulcoretusa* sp.*Volvulella ?cylindrica**Volvulella panamica**Volvulella* sp.

Pyramidellida

Odostomia sp.*Turbonilla* sp.

Prosobranchia

Mesogastropoda

Caecidae

Caecum sp.*Fartulum* sp.

Calyptraeidae

Crepidula dorsata(=*Crepipatella lingulata*)*Crepidula* sp.

Naticidae

Neverita reclusiana

Vitrinellidae

Vitrinella oldroydi

Neogastropoda

Nassariidae

*Nassarius fossatus**Nassarius mendicus**Nassarius perpinguis*

16

Olividae

Olivella baetica

32

16

Turridae

Kurtziella plumbea

Pelecypoda (juv.)

16

Cardiidae

Laevicardium substriatum

Cooperellidae

Cooperella subdiaphana

32

Corbulidae

*Corbula luteola**Corbula* sp.

Hiatellidae

Hiatella arctica

Kelliidae

?Bornia sp.

Leptonidae

"Lepton meroeum"

Lucinidae

Lucina nuttalli

16

Parvilucina tenuisculpta

144

16

16

(=*Parvilucina* sp.)

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>	48	16	32	144
<i>Tellina</i> sp. (juv.)			32	
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>				
Veneridae				
<i>Compsomyax subdiaphana</i>				
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)	48		16	
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	96	64		48
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>				20
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	16290	6600	340	240
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	60	50	140	9760
<i>Notomastus teruis</i>				
Chaetopteridae				
<i>Spiochaetopterus costarum</i>			20	10
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>				
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.				
Cossuridae				
<i>Cossura candida</i>	10			
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>			10	
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>				
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.				
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>		80	10	
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>		40		
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>				
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)			20	10
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>		20	40	
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>	920	440	20	1130
Orbiniidae				
<i>Haploscoloplos elongatus</i>				
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>				
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>		10	150	
Phyllodocidae				
<i>Anaitides nr. papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>				
<i>Eteone sp.</i>				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce sp.</i>				
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>				
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus sp. (branchiate)</i>				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>				
<i>Harmothoe priops</i>		30		
<i>Harmothoe scriptoria</i>				
<i>Harmothoe sp.</i>				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes sp.</i>				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone sp.</i>				
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>				
<i>Magelomna pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>		10		
<i>Sthenelais verruculosa</i>				
<i>Sthenelanella uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia sp.</i>			10	
<i>Carasiella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>				
<i>Paraprionospio pinnata</i>				
(= <i>Prionospio pinnata</i>)				
<i>Polydora bioceppitalis</i>				
<i>Polydora caulleryi</i>				
(= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>		320	50	30
<i>Polydora limicola</i>	460			
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	20	10		250
<i>Prionospio heterobranchia</i>				30
<i>Prionospio pygmaeus</i>				
<i>Prionospio steenstrupi</i>			10	
(= <i>P. nr. malmgreni</i>)				
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>			50	20
<i>Scolecopsis acuta</i>				40
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>			10	
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista ?disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>				
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea	16			
Caprellidae				
<i>Caprella equilibra</i>	2850			
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

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	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea		160		
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>	16			
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Eriethonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida				
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>				
Copepoda-Harpacticoida				
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>			10	
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>		480	20	330
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancriidae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schnitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.*Upogebia* sp.

30

10

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.

330

Serolis carinata

10

Serolis sp.

Mysidacea

Ostracoda

Cylindroleberdinae

*Euphilomedes carcharodonta**Philomedes* sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

Anoplodactylus erectus

10

Callipallene californiensis

230

ASCHELMINTHES

Nematoda

410

300

BRACHIPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

ECHIURA

Listriolobus pelodes

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

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MOLLUSCA (cont.)

Cephalaspidea (cont.)

Aglaja sp.
Cylichna diegensis
Gastropteron pacificum
Retusa sp.
Riotaxis punctocaelatus
Sulcoretusa sp.
Volvulella ?cylindrica
Volvulella panamica
Volvulella sp.

Pyramidellida

Odostomia sp.
Turbonilla sp.

Prosobranchia

Mesogastropoda

Caecidae

Caecum sp.
Fartulum sp.

Calyptraeidae

Crepidula dorsata
 (= *Crepidatella lingulata*)
Crepidula sp.

Naticidae

Neverita reclusiana

Vitrinellidae

Vitrinella oldroydi

Neogastropoda

Nassariidae

Nassarius fossatus
Nassarius mendicus
Nassarius perpunguis

Olividae

Olivella baetica

570 140

Turridae

Kurtziella plumbea

Pelecypoda (juv.)

Cardiidae

Laevicardium substriatum

Cooperellidae

Cooperella subdiaphana

20

Corbulidae

Corbula luteola
Corbula sp.

Hiatellidae

Hiatella arctica

Kelliidae

?*Bornia* sp.

Leptonidae

"*Lepton meroeum*"

Lucinidae

Lucina nuttalli
Parvilucina tenuisculpta
 (= *Parvilucina* sp.)

HARBORS ENVIRONMENTAL PROJECTS
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MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>		190		10
<i>Spisula</i> sp.		10		
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>				
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>				
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				10
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>		20		
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.			80	
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>			40	
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>			40	
<i>Macoma</i> sp. (juv.)		30	80	
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

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STATION A7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)				
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>				
Veneridae				
<i>Compsomyax subdiaphana</i>				
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA		240	10	40
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

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	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA			48	
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				16
<i>Amphicteis scaphobranchiata</i>	16			
<i>Melinna oculata</i>			16	
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae		16		
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	16	32		
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	1200	240	1168	64
<i>Notomastus tenuis</i>			1152	16
Chaetopteridae				
<i>Spiochaetopterus costarum</i>	16		16	
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	304	32		32
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	8160	208	112	112
Cossuridae				
<i>Cossura candida</i>	9520	720		1008
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>	16		32	
<i>Glycera capitata</i>				16
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)	16			
Goniodidae				
<i>Glycinde armigera</i>				

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	6 Jan 1978	10 Apr 1978	10 Jul. 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>			16	16
<i>Gyptis brunnea</i>	16			
<i>Ophiiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	272	80	48	112
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.			16	
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	320	80	16	64
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	224	176		16
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				16
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>	16		64	16
Orbiniidae				
<i>Haploscoloplos elongatus</i>	256	224	256	320
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutti</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	16	80	16	
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
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POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>				
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>	16			16
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.			16	
Pilargiidae				
<i>Ancistroyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	224	48		192
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus</i> sp. (branchiate)	16			
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>				
<i>Harmothoe priops</i>				
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.			32	
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.			32	
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>	80			
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelia uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

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POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>				
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	96	16		16
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	688	208	176	240
<i>Prionospio heterobranchia</i>			80	16
<i>Prionospio pygmaeus</i>			32	
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)	16			16
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>				16
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	16		32	
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				16
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>	16			
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	48	176		16
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>			16	
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
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ARTHROPODA CRUSTACEA (cont.)

Amphipoda-Gammaridea

*Ampelisca cristata**Ampelisca* sp.*Amphideutopus oculatus*

16

176

32

Argissa hamatipes

32

*Corophium acherusicum**Eriothonius brasiliensis**Listriella goleta*

64

32

32

Monoculodes sp.*Paraphoxus* sp.*Photis* sp.

Copepoda-Canaloida

Copepoda-Cyclopoida

Clausidium vancouverense

16

Copepoda-Harpacticoida

Cumacea

Bodotriidae

Cyclaspis sp.

Diastylidae

Diastylis sp.*Diastylopsis tenuis**Leptostylus* sp. A

16

Leptostylus sp. B*Leptostylus* sp.*Oxyurostylus pacifica*

16

Lampropidae

Hemilamprops californica

16

Nannastacidae

Campylaspis sp. C*Campylaspis* sp.*Cumella* sp.

Decapoda

decapod zoea larvae

Brachyura

Cancriidae

Cancer sp.

Grapsidae

Hemigrapsus oregonensis

Leucosiidae

Randallia ornata

Majidae

Pyromaia tuberculata

16

Parthenopidae

Heterocrypta occidentalis

Pinnotheridae

*Opisthopus transversus**Pinnixa franciscana**Pinnixa littoralis**Pinnixa longipes*

16

Pinnixa schmitti

16

48

Pinnixa transversus

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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

48

48

64

16

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

16

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.*Upogebia* sp.

64

32

32

32

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

Ostracoda

Cylindroleberdinae

*Euphilomedes carcharodonta**Philomedes* sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

16

16

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

32

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

48

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys
Gobiidae (larvae)
Clevelandia ios
Urochordata
Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa 16
Actinaria
Diadumene sp.
Edwardsiidae
Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A 16
Pennatulacea
?Stylatula elongata 16
Virgularia nr. *reimwardi*
Ceriantharia
Botrucnidifer sp.
Pachycerianthus sp.
Hydrozoa - Hydroida
Bimeria robusta
Corymorpha curata
Obelia dichotoma

ECHINODERMATA

Holothuroidea 16
Leptosynapta albicans
Ophiuroidea (juv.) 112 16
Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.) 16 32

ECHIURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta 16

MOLLUSCA

Gastropoda
Ophisthobranchia
Cephalaspidea
Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A8

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaia</i> sp.				
<i>Cylichna diegensis</i>				
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.	32			
<i>Rictaxis punctocaelatus</i>	16			
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>				
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Tarbovilla</i> sp.	16			
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepidatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>				
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>			32	16
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>	80		48	
Turridae				
<i>Kurtziella plumbea</i>	16			
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium substriatum</i>			32	
Cooperellidae				
<i>Cooperella subdiaphana</i>				
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
<i>?Bornia</i> sp.				32
Leptonidae				
" <i>Lepton meroeum</i> "	32			
Lucinidae				
<i>Lucina nuttalli</i>				
<i>Parvilucina tenuisculpta</i>	160	32	32	32
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A8

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>				
<i>Mysella</i> sp.	32			16
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.	16			
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>	16	16		32
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>			32	
<i>Macoma acolasta</i>	16	16	48	
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)		16		
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A8

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>	16		16	
<i>Tellina</i> sp. (juv.)		16		48
Thraciidae				
<i>Thracia curta</i>	32		16	
Thasiridae				
<i>Actinopsida serricata</i>				
<i>Thyasira flexuosa</i>		16		
Veneridae				
<i>Compsomyax subdiaphana</i>	16	32		
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)	48			
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>		16		
NEMERTEA	352	96	240	64
PHORONIDA	16			
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	32			
POLYCHAETA			32	
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>	32		32	256
<i>Melinna oculata</i>	16			
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	272		96	1024
<i>Notomastus tenuis</i>	16			16
Chaetopteridae				
<i>Spiochaetopterus costarum</i>	16		16	48
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	80	16	16	80
<i>Chaetozone setosa</i>			16	
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	9392	464	2560	1280
Cossuridae				
<i>Cossura candida</i>	1504	128	4576	3040
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>		64	256	
<i>Marphysa disjuncta</i>	368	80	80	480
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>				
<i>Glycera capitata</i>		32		16
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)			16	
Gonioididae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	48		32	80
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>			16	
Lumbrineridae				
<i>Lumbrineris</i> spp.	304	48	32	128
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	144		288	672
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	96	176	48	16
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>			16	
Orbiniidae				
<i>Haploscoloplos elongatus</i>	544	16	96	256
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	832	128	112	848
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>				
Phyllodocidae				
<i>Anaitides nr. papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>			16	
<i>Eteone sp.</i>				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce sp.</i>				
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	16	64	80	368
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus sp. (branchiate)</i>			16	
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>	16			
<i>Harmothoe priops</i>				
<i>Harmothoe scriptoria</i>				
<i>Harmothoe sp.</i>				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes sp.</i>				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>	32			
<i>Chone veleronis</i>				
<i>Chone sp.</i>			16	
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>	960	32	912	224
<i>Magelomma pigmentum</i>	16			
<i>Miricola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelia uniformis</i>	16			32
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>			16	
<i>Boccardia sp.</i>				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	16	16	16	48
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	16	16	16	80
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	32			
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>				
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)	16		32	
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>			16	
<i>Spiophanes bombyx</i>	16		16	16
<i>Spiophanes missionensis</i>				
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage</i> sp.				112
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>	64		16	112
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	96	48	80	224
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A9

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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ARTHROPODA CRUSTACEA (cont.)

Amphipoda-Gammaridea

*Ampelisca cristata**Ampelisca* sp.*Amphideutopus oculatus**Argissa hamatipes**Corophium acherusicum**Erichthonius brasiliensis**Listriella goleta*

16

Monoculodes sp.*Paraphoxus* sp.*Photis* sp.

Copepoda-Canaloida

Copepoda-Cyclopoida

Clausidium vancouverense

Copepoda-Harpacticoida

Cumacea

Bodotriidae

Cyclaspis sp.

Diastylidae

Diastylis sp.*Diastylopsis tenuis**Leptostylus* sp. A*Leptostylus* sp. B*Leptostylus* sp.*Oxyurostylus pacifica*

16

Lampropidae

Hemilamprops californica

Nannastacidae

Campylaspis sp. C*Campylaspis* sp.*Cumella* sp.

Decapoda

decapod zoea larvae

Brachyura

Cancridae

Cancer sp.

Grapsidae

Hemigrapsus oregonensis

Leucosiidae

Randallia ornata

Majidae

Pyromaia tuberculata

Parthenopidae

Heterocrypta occidentalis

Pinnotheridae

*Opisthopus transversus**Pinnixa franciscana**Pinnixa littoralis**Pinnixa longipes**Pinnixa schmitti**Pinnixa transversus*

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HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A9

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys
Gobiidae (larvae)
Clevelandia ios
Urochordata
Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa
Actinaria
Diadumene sp.
Edwardsiidae
Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A
Pennatulacea
?Stylatula elongata
Virgularia nr. *reinsardi*
Ceriantharia
Botrucnidifer sp.
Pachycerianthus sp.
Hydrozoa - Hydroida
Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea
Leptosynapta albicans
Ophiuroidea (juv.)
Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

16

ECHIURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda
Ophisthobranchia
Cephalaspidea
Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

16

64

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>				
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>			64	
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>			48	16
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.				16
<i>Turbonilla</i> sp.				
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>	16			
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>				16
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>				
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium substriatum</i>			128	
Cooperellidae				
<i>Cooperella subdiaphana</i>				48
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "	16			
Lucinidae				
<i>Lucina nuttalli</i>				
<i>Parvilucina tenuisculpta</i>	32	32	112	448
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>	16		48	64
<i>Mysella</i> sp.	16			
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				16
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>	48		80	112
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>			16	48
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.			16	
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>			32	16
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)			96	32
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)			16	16
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Axinopsida serricata</i>			32	32
<i>Thyasira flexuosa</i>	48	16		32
Veneridae				
<i>Compsomyax subdiaphana</i>				48
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	96		64	224
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.			16	
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	16		16	16
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>			96	16
<i>Amphiteis scaphobranchiata</i>	32	32		80
<i>Melinna oculata</i>				16
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	384	1232	1648	4960
<i>Notomastus tenuis</i>				
Chaetopteridae				
<i>Spiochaetopterus costarum</i>	16			16
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	176	176	64	96
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	9440	5456	3760	5488
Cossuridae				
<i>Cossura candida</i>	10,064	7344	6320	19,056
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>	416	256	128	592
<i>Marphysa disjuncta</i>	16	16	16	16
Flabelligeridae				
<i>Pherusa capulata</i>				16
Glyceridae				
<i>Glycera americana</i>	16	48		
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rourii</i>				
<i>Glycera</i> sp. (juv.)			16	
Gonioididae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	16	32	64	80
<i>Gyptis brunnea</i>	32		32	32
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	432	256	176	400
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>		32	16	80
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>		16		
<i>Nephtys cornuta franciscana</i>	448	128	352	336
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>		16		
<i>Nereis procera</i>	64	144	32	32
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>		16		
<i>Diopatra splendidissima</i>	16			
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				16
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>		16	16	16
Orbiniidae				
<i>Haploscoloplos elongatus</i>	1040	544	192	1184
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>	64			16
<i>Acesta</i> sp.			16	
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	2400	1456	2576	2160
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>	16			
Phyllodocidae				
<i>Anaitides nr. papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>		16		
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.	16			
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	208		176	128
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>				
<i>Harmothoe priops</i>			16	
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.			16	
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.			16	
<i>Euchone incolor</i>	64			
<i>Eucone limnicola</i>	256	192	1712	912
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelia uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				224

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	48	16	48	32
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	112	96	64	48
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)			16	
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>		32		
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	48	112	96	80
<i>Prionospio heterobranchia</i>	16			32
<i>Prionospio pygmaeus</i>	48		16	16
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)	64	16	16	16
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>	16	48	92	
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	16		32	
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.	16			
<i>Ecogone lourei</i>				32
<i>Ecogone verrugera</i>				
<i>Ecogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>	16			48
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>	80			
<i>Pista</i> sp. (juv.)		80	32	16
<i>Streblosoma crassibranchia</i>	144	112	288	288
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	128	128	80	16
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				160
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida				
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>				
Copepoda-Harpacticoida				
Cumacea	16	32		16
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyrostylus pacifica</i>				16
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancriidae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A10

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.

16

64

Upogebia sp.

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Murra* sp.*Serolis carinata**Serolis* sp.

Mysidacea

Ostracoda

48

32

48

Cylindroleberdinae

*Euphilomedes carcharodonta**Philomedes* sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

160

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A10

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys
Gobiidae (larvae)
Clevelandia ios
Urochordata
Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria
Diadumene sp.
Edwardsiidae
Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reinsardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

16

16

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

16

ECHIURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

Acteocina culcitella
Acteocina harpa
Aglaia ocelligera

32

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A10

6 Jan 10 Apr 10 Jul 13 Oct
1978 1978 1978 1978

MOLLUSCA (cont.)

Cephalaspidea (cont.)

Aglaja sp.*Cylichna diegensis**Gastropteron pacificum**Retusa* sp.*Rictaxis punctocaelatus**Sulcoretusa* sp.

32

*Volvulella ?cylindrica**Volvulella panamica**Volvulella* sp.

Pyramidellida

Odostomia sp.*Turbonilla* sp.

Prosobranchia

Mesogastropoda

Caecidae

Caecum sp.*Fartulum* sp.

Calyptraeidae

Crepidula dorsata(*=Crepipatella lingulata*)*Crepidula* sp.

Naticidae

Neverita reclusiana

Vitrinellidae

Vitrinella oldroydi

Neogastropoda

Nassariidae

*Nassarius fossatus**Nassarius mendicus**Nassarius perpinguis*

Olividae

Olivella baetica

Turridae

Kurtziella plumbea

Pelecypoda (juv.)

32

32

16

80

Cardiidae

Laevicardium substriatum

80

Cooperellidae

Cooperella subdiaphana

16

Corbulidae

*Corbula luteola**Corbula* sp.

Hiatellidae

Hiatella arctica

Kelliidae

?Bornia sp.

Leptonidae

"Lepton meroeum"

16

32

32

Lucinidae

Lucina nuttalli

16

Parvilucina tenuisculpta

208

16

48

60

(*=Parvilucina* sp.)

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>			16	32
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>	16	32	16	
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				16
Nuculanidae				
<i>Nuculana</i> sp.				
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
<i>?Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				32
<i>Theora lubrica</i>	48	64	112	432
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				176
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>			80	
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				16
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>		16		16
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)				128
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				48
<i>Tellina</i> sp. (juv.)	16		16	80
Thraciidae				
<i>Thracia curta</i>			16	
Thasiridae				
<i>Axinopsida serricata</i>	16			
<i>Thyasira flexuosa</i>	32	48	32	16
Veneridae				
<i>Compsomyax subdiaphana</i>	16			
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				64
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>		16		
NEMERTEA		192	192	192
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION All

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA			160	
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>			16	20
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	10			
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	20		4928	1450
<i>Notomastus tenuis</i>		50	48	
Chaetopteridae				
<i>Spiochaetopterus costarum</i>	10	10	32	
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>				
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	60	250	304	40
Cossuridae				
<i>Cossura candida</i>	70	640	4704	320
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>				
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>		10	16	
<i>Glycera gigantea</i>			16	
<i>Glycera robusta</i>				
<i>Glycera rourii</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION ALL

	6 Jan 1978	10 Apr 1978	10 Jul. 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>	10			
<i>Goniada littorea</i>		20	160	20
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>			32	
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	10	10	208	20
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>			16	
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>		10		
<i>Nephtys californiensis</i>	10			
<i>Nephtys cornuta franciscana</i>		30		
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>				
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				10
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>		130	464	20
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>			16	
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION All

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>	10		32	20
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>			16	
<i>Eteone dilatata</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>				
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>			16	
<i>Harmothoe priops</i>				
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.		10		10
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>				
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>			16	
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelle uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A11

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>				
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)			32	10
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)			16	
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>		20	864	30
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>	20		32	80
<i>Prionospio steenstrupi</i> (= <i>P.nx. malmgreni</i>)		10		
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>			16	
<i>Scoelelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>			16	10
<i>Spiophanes missionensis</i>			16	20
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>		10		
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>			16	
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>		60	48	20
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION All

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	320		1120	310
<i>Ampelisca cristata</i>		140		
<i>Ampelisca</i> sp.		10		
<i>Amphideutopus oculatus</i>		190		
<i>Argissa hamatipes</i>		130		
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>		30		
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida			144	
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>				
Copepoda-Harpacticoida			48	20
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>	10	190		
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaita tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION All

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.*Upogebia* sp.

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

50

Ostracoda

Cylindroleberdinae

20

128

150

Euphilomedes carcharodonta

40

Philomedes sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

BRACHIPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION All

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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)

Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides**Isoedwardsia* sp. A

Pennatulacea

? *Stylatula elongata**Virgularia* nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.*Pachycerianthus* sp.

Hydrozoa - Hydroida

*Bimeria robusta**Corymorpha aurata**Obelia dichotoma*

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

*Amphiodia ?occidentalis**Amphiodia urtica**Amphiodia* sp. (juv.)

ECHIURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

*Acteocina culcitella**Acteocina harpa**Aglaia ocelligera*

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION All

 6 Jan 10 Apr 10 Jul 13 Oct
 1978 1978 1978 1978

MOLLUSCA (cont.)

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.		10		
<i>Cylichna diegensis</i>				
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>		10		
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>				
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Turbonilla</i> sp.				
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Partulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>				
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>		10		
<i>Nassarius mendicus</i>	10	10		
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>	40	60	16	30
Turridae				
<i>Kurtziella plumbea</i>		30		
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>	10	10		40
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "				
Lucinidae				
<i>Lucina nuttalli</i>				
<i>Parvilucina tenuisculpta</i>				
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A11

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Macluridae				
<i>Maclura californica</i>	20		64	
<i>Spisula</i> sp.			16	
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>	10		16	
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten laticuratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>				
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>	10			10
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>			16	
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimeta obesa</i>				
<i>Macoma acolasta</i>				10
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>			16	
<i>Macoma nasuta</i>		10		
<i>Macoma</i> sp. (juv.)				
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION All

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>		20	16	10
<i>Tellina</i> sp. (juv.)			144	20
Thraciidae				
<i>Thracia curta</i>		10	16	
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>				
Veneridae				
<i>Compsomyax subdiaphana</i>				
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	10	40	96	20
PHORONIDA				
<i>Phoronis pallida</i>			32	
<i>Phoronis</i> sp.			32	
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

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STATION A12

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>			16	
<i>Amphicteis scaphobranchiata</i>		16	16	
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
<i>?Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	400	16	1440	592
<i>Notomastus tenuis</i>	16		16	32
Chaetopteridae				
<i>Spiochaetopterus costarum</i>	32		32	
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	16	16	32	32
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	1136	144	384	16
Cossuridae				
<i>Cossura candida</i>	2032	64	2032	1968
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>		16	16	
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>		16	16	48
<i>Glycera capitata</i>	16			
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>			16	
<i>Glycera rourii</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

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STATION A12

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>	16			
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>		32	16	
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	176	80	80	32
Magelonidae				
<i>Magelona pacifica</i>	16			
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>	144	48		16
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>			16	
<i>Nephtys californiensis</i>	16			
<i>Nephtys cornuta franciscana</i>	64	96	64	16
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"			16	
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	80			16
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>	176	16		
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>			16	
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	512	16	1264	352
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A12

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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POLYCHAETA (cont.)

Pectinariidae

<i>Pectinaria californiensis</i>		16		
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Phyllodocidae

<i>Anaitides</i> nr. <i>papillosa</i>	16			
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*Eteone californica**Eteone dilatata**Eteone* sp.*Eumida bifoliata**Eumida sanguinea**Phyllodoce* sp.

Pilargiidae

*Ancistrostylis hamata**Pilargis berkeleyi*

<i>Sigambra tentaculata</i>	128		144	112
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Poecilochaetidae

*Poecilochaetus johnsoni**Poecilochaetus* sp. (branchiate)

Polynoidae

Halosydna johnsoni

<i>Harmothoe imbricata</i>	32	16	16	
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*Harmothoe priops**Harmothoe scriptoria**Harmothoe* sp.

Polyodontidae

*Polyodontes ?panamensis**Polyodontes* sp.

Sabellariidae

*Phragmatopoma californica**Sabellaria cementarium*

Sabellidae

*Chone gracilis**Chone veleronis**Chone* sp.*Euchone incolor*

<i>Eucone limnicola</i>	16			
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*Magelomma pigmentum**Mixicola infundibulum*

Scalibregmidae

Scalibregma inflatum

Serpulidae

Eupomatus gracilis

Sigalionidae

*Pholoe glabra**Sthenelais verruculosa**Sthenelanelia uniformis*

Sphaerodoridae

Sphaerodorum sphaerulifer

Spionidae

*Boccardia hamata**Boccardia* sp.*Caraziella califia*

("Pseudopolydora n.gen.")

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A12

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	64	32		
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	80	96	128	64
<i>Polydora bicecipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)		16		
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	32	16	320	80
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>			112	16
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)	208	16		
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>				
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.	16			
Terrebellidae				
<i>Amaeana occidentalis</i>				16
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista ?disjuncta</i>				
<i>Pista fasciata</i>				48
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	176	96	16	
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A12

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea				
<i>Ampelisca cristata</i>	32		32	
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>	48	16	112	32
<i>Argissa hamatipes</i>		16	16	
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>	16			16
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida			32	
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>	64			
Copepoda-Harpacticoida				
Cumacea			32	
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				48
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.	16			
<i>Oxyurostylus pacifica</i>			32	
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.			16	
<i>Cumella</i> sp.				
Decapoda	16			
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>	16	32		32
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A12

6 Jan 10 Apr 10 Jul 13 Oct
1978 1978 1978 1978

ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.

16

Scleroplax granulata

96

16

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.

48

16

32

16

Upogebia sp.

Isopoda

Gnathia crenulatifrons

32

32

Gnathia sp.*Muna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

64

Ostracoda

16

Cylindroleberdinae

Euphilomedes carcharodonta

32

16

Philomedes sp.*Rutiderma rostrata**Sarsiella* sp.

16

Scleroconcha sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

48

16

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A12

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reimwardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

16

ECHIUURA

Listriolobus pelodes

16

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

16

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A12

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>	16	64		
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Riotaxis punctocaelatus</i>			16	
<i>Sulcoretusa</i> sp.			16	
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>		32		
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Turbonilla</i> sp.				16
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepidatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>				
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>	32		16	
<i>Nassarius perpunguis</i>				
Olividae				
<i>Olivella baetica</i>		16	32	160
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>				32
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "			16	
Lucinidae				
<i>Lucina nuttalli</i>			16	32
<i>Parvilucina tenuisculpta</i>	32	32	32	16
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A12

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct. 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>			16	
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>				
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>			16	
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>	48	64	16	48
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)		16		
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A12

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>		48	16	
<i>Tellina</i> sp. (juv.)				
Thraciidae				
<i>Thracia curta</i>				48
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>				
Veneridae				
<i>Compsomyax subdiaphana</i>				16
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)	64			160
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>	16			
NEMERTEA	144	112	176	208
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A13

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				16
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>	32			
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>		16		16
Capitellidae	16			
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	368	448		5760
<i>Notomastus tenuis</i>	80	48	64	112
Chaetopteridae				
<i>Spiochaetopterus costarum</i>	16			
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>		16		16
<i>Chaetozone setosa</i>				16
<i>Cirratulus cirratus</i>				
<i>Cirriiformia luxuriosa</i>				
<i>Tharyx</i> sp.	800	208		528
Cossuridae				
<i>Cossura candida</i>	112	336	32	112
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>	32	80	64	32
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>	16	32	48	32
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>	16			
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Gonioididae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A13

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				80
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	16	64		64
<i>Gyptis brunnea</i>		16		
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	64	224	64	352
Magelonidae				
<i>Magelona pacifica</i>	48	16		
<i>Magelona pitelkai</i>				64
Maldanidae				
<i>Asychis disparidentata</i>		32	80	
<i>Asychis</i> sp.				
<i>Axiothella</i> sp.	16			
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	128	160		64
<i>Nephtys ferruginea</i>	16			
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	208	96	16	192
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>	16			
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>	64	128		32
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>				16
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				16
<i>Tauberia oculata</i>	64	256		896
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A13

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>	16	16		16
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>		16		
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>	16			
<i>Sigambra tentaculata</i>	160	256	32	32
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>	16			
<i>Poecilochaetus</i> sp. (branchiate)	16	16		48
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>				48
<i>Harmothoe priops</i>				80
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.				
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>				
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelle uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i> (="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A13

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	32	16	16	80
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	48	32		32
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	208	80	16	
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>	32			48
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)	304	96	16	32
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>	16		32	
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>		16		
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.	16			16
Terrebellidae				
<i>Amaeana occidentalis</i>		16		80
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				16
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	144	96	128	80
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A13

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea				
<i>Ampelisca cristata</i>	48			32
<i>Ampelisca</i> sp.				16
<i>Amphideutopus oculatus</i>	16	64		96
<i>Argissa hamatipes</i>				16
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>	80	16		112
<i>Monoculodes</i> sp.				16
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				16
Copepoda-Canaloida				
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>		32		
Copepoda-Harpacticoida				
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				32
<i>Oxyurostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				16
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				16
Decapoda	16			
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>			16	
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>	48			32
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				16
<i>Pinnixa schmitti</i>			64	
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A13

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

224

16

48

96

64

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

16

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.

96

48

128

80

Upogebia sp.

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

Ostracoda

Cylindroleberdinae

Euphilomedes carcharodonta

16

48

64

Philomedes sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptocheilia sp.

32

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

16

112

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A13

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys
Gobiidae (larvae)
Clevelandia ios
Urochordata
Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa
Actinaria
Diadumene sp.
Edwardsiidae
Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A
Pennatulacea
?Stylatula elongata
Virgularia nr. *reinwardi*
Ceriantharia
Botrucnidifer sp.
Pachycerianthus sp.
Hydrozoa - Hydroida
Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea
Leptosynapta albicans
Ophiuroidea (juv.)
Amphiodia ?occidentalis 16
Amphiodia urtica
Amphiodia sp. (juv.)

ECHIURA

Listriolobus pelodes 16

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

64

MOLLUSCA

Gastropoda
Ophisthobranchia
Cephalaspidea
Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A13

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.		16		
<i>Cylichna diegensis</i>		16		32
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>		16		16
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>		16		16
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Turbonilla</i> sp.				
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepidatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>				
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>		32		
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>	16	48	32	16
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>				
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "		16	48	32
Lucinidae				
<i>Lucina nuttalli</i>				
<i>Parvilucina tenuisculpta</i>		16		144
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A13

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct. 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>	48			64
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>	48			
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				16
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
<i>?Gari californica</i>				16
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>				
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				16
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>	48	32		64
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)		16		16
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A13

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>	80			48
<i>Tellina</i> sp. (juv.)	16			160
Thraciidae				
<i>Thracia curta</i>		48		
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>		16	16	16
Veneridae				
<i>Compsomyax subdiaphana</i>			16	16
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				16
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	224		16	128
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS.
BENTHIC DATA

STATION A14

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	16			
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>	16			
<i>Amphicteis scaphobranchiata</i>				
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>	16			
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	624	2032		
<i>Notomastus tenuis</i>				16
Chaetopteridae				
<i>Spiochaetopterus costarum</i>	48	32	32	
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	16	128		
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	896	768	16	
Cossuridae				
<i>Cossura candida</i>	1552	2736	16	
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>	32	80	32	48
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>	16			16
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>		32	16	
<i>Glycera</i> sp. (juv.)		16		
Gonioididae				
<i>Glycinde armigera</i>	16			

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A14

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniadidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	16	112	16	
<i>Gyptis brunnea</i>	32			
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	240	160	16	
Magelonidae				
<i>Magelona pacifica</i>	128	16	16	
<i>Magelona pitelkai</i>	48	32		
Maldanidae				
<i>Asychis disparidentata</i>				48
<i>Asychis</i> sp.				48
<i>Axiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>			16	
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	320	144		
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	128	32	16	
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				16
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>	96	16		
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>		16		
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	592	1568	16	16
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A14

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>	16		16	
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	48	128	16	32
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>				
<i>Harmothoe priops</i>		16		
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.				
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>	80			
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelle uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A14

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>		64		
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	192	64	48	
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>	48			
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	272	384	16	
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>				
<i>Prionospio steenstrupi</i> (= <i>P.n.r. malmgreni</i>)	288	48		
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	208	16		
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amatea occidentalis</i>				16
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>	32			
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	208	32	32	16
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A14

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea				
<i>Ampelisca cristata</i>	32	32	32	16
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>	112	64		
<i>Argissa hamatipes</i>		32		
<i>Corophium acherusicum</i>	64			
<i>Eriothonius brasiliensis</i>				
<i>Listriella goleta</i>	16			
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida		16		
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>		64		
Copepoda-Harpacticoida				
Cumacea				
				16
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A			16	
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.	16			
<i>Oxyurostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C			16	
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>			48	16
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A14

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

64

*Pinnixa tubicola**Pinnixa* sp.

16

32

Scleroplax granulata

16

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis*

16

*Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

16

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.

64

32

16

32

Upogebia sp.

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Muna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

Ostracoda

Cylindroleberdinae

16

Euphilomedes carcharodonta

16

Philomedes sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS

STATION A14

BENTHIC DATA

6 Jan
197810 Apr
197810 Jul
197813 Oct
1978

BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?Stylatula elongata
Virgularia nr. *reinswardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

ECHIURA

Listriolobus pelodes

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A14

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>	16			
<i>Gastropterion pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>				
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>		32		
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Turbonilla</i> sp.	32			
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>	48			
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>		16		
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>	16	128	16	
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>				16
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "	32			
Lucinidae				
<i>Lucina nuttalli</i>				
<i>Parvilucina tenuisculpta</i>	48	48		
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A14

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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MOLLUSCA (cont.)

Pelecypoda (cont.)

Lyonsiidae

Lyonsia californica

Mactridae

*Mactra californica**Spisula* sp.*Tresus nuttalli*

Montacutidae

*Mysella grippi**Mysella pedroana**Mysella* sp.

16

Myidae

Cryptomya californica

48

Platydon cancellatus

Mytilidae

*Crenella divaricata**Crenella* sp.*Magacrenella columbiana*

Nuculanidae

Nuculana sp.

Pandoridae

Pandora sp.

Pectinidae

Leptopecten latiauratus

Periplomatidae

Periploma planiusculum

Petricolidae

Petricola sp.

Psammobiidae

?Gari californica

Semelidae

*Cumingia californica**Theora lubrica*

16

Solecurtidae

*Tagelus californianus**Tagelus subteres*

Solenidae

Ensis myrae

16

*Siliqua lucida**Solen rosaceus**Solen sicarius**Solen* sp.

Tellinidae

*Leporimetis obesa**Macoma acolasta*

32

*Macoma carlottensis**Macoma indentata**Macoma nasuta**Macoma* sp. (juv.)*Tellina carpenteri**Tellina idae*

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A14

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>		64	16	
<i>Tellina</i> sp. (juv.)	96	96		
Thraciidae				
<i>Thracia curta</i>	16	32		
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>		16		
Veneridae				
<i>Compsomyax subdiaphana</i>				
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)	48		16	
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	96	336	48	32
PHORONIDA	32			
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A15

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>	112	16		32
<i>Melina oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
<i>?Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	5456	10,368	736	7600
<i>Notomastus tenuis</i>	48	16	48	80
Chaetopteridae				
<i>Spiochaetopterus costarum</i>		16		
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	16	64	32	48
<i>Chaetozone setosa</i>		16		
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	192	688	224	352
Cossuridae				
<i>Cossura candida</i>	2704	8256	5488	5376
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>				16
<i>Glycera capitata</i>		16		
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>			16	80

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A15

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>	16		16	32
<i>Goniada littorea</i>		32	32	
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	16	32		32
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	48	112	112	208
Magelonidae				
<i>Magelona pacifica</i>		16		
<i>Magelona pitelkai</i>			48	
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				16
<i>Ariothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>	16			
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>		96		32
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>		32	64	48
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>	48	32		80
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>			16	
<i>Acesta horikoshii</i>		32		48
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	16	176	48	960
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A15

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>	96			
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>	16			16
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	64	32		80
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>				
<i>Harmothoe priops</i>	16			16
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.				
<i>Euchone incolor</i>				32
<i>Eucone limnicola</i>				
<i>Magelomma pigmentum</i>				
<i>Miricola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanellella uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A15

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>				32
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	48		64	64
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>		1344	480	1888
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>				96
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)				
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	48			64
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Erogone lourei</i>				
<i>Erogone verrugera</i>				
<i>Erogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista ?disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>				
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A15

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea				
<i>Ampelisca cristata</i>				32
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>	16			64
<i>Argissa hamatipes</i>	16	16		16
<i>Corophium acherusicum</i>				
<i>Eriethonius brasiliensis</i>				
<i>Listriella goleta</i>		32	16	16
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida				
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>	688	32		128
Copepoda-Harpacticoida				
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.	16			
Diastylidae				
<i>Diastylis</i> sp.	16			
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A			16	
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancriidae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>		16		80
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A15

6 Jan 10 Apr 10 Jul 13 Oct
1978 1978 1978 1978

ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

96

16

*Pinnixa tubicola**Pinnixa* sp.

16

Scleroplax granulata

32

112

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.

80

80

32

Upogebia sp.

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

Ostracoda

Cylindroleberdinae

Euphilomedes carcharodonta

64

160

112

16

Philomedes sp.

32

*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

96

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A15

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.
Edwardsiidae
Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reimwardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

16

16

ECHIURA

Listriolobus pelocles

16

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

16

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea
Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A15

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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MOLLUSCA (cont.)

Cephalaspidea (cont.)

Aglaja sp.*Cylichna diegensis**Gastropteron pacificum*

16

Retusa sp.*Rictaxis punctocaelatus**Sulcoretusa* sp.*Volvulella ?cylindrica**Volvulella panamica**Volvulella* sp.

Pyramidellida

Odostomia sp.*Turbonilla* sp.

Prosobranchia

Mesogastropoda

Caecidae

Caecum sp.*Fartulum* sp.

Calyptraeidae

*Crepidula dorsata**(=Crepipatella lingulata)**Crepidula* sp.

Naticidae

Neverita reclusiana

Vitrinellidae

Vitrinella oldroydi

Neogastropoda

Nassariidae

*Nassarius fossatus**Nassarius mendicus*

16

16

Nassarius perpinguis

16

Olividae

Olivella baetica

32

Turridae

Kurtziella plumbea

Pelecypoda (juv.)

Cardiidae

Laevicardium substriatum

Cooperellidae

Cooperella subdiaphana

Corbulidae

*Corbula luteola**Corbula* sp.

Hiatellidae

Hiatella arctica

Kelliidae

?Bornia sp.

Leptonidae

"Lepton meroeum"

Lucinidae

*Lucina nuttalli**Parvilucina tenuisculpta*

16

(=Parvilucina sp.)

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A15

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>			16	32
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>	16	16		
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>	32	48	64	112
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				16
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>		16		16
Solecurtidae				
<i>Tagelus californianus</i>			16	
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				16
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>	16		16	64
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>	32			32
<i>Macoma</i> sp. (juv.)		16	16	
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A15

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				128
<i>Tellina</i> sp. (juv.)	48	16		
Thraciidae				
<i>Thracia curta</i>				32
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>				
Veneridae				
<i>Compsomyax subdiaphana</i>				
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)	48	32		16
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				16
NEMERTEA	144	368	128	128
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A16

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>	16			
<i>Melinna oculata</i>	16			
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	160	1312	928	256
<i>Notomastus tenuis</i>	128	96	16	16
Chaetopteridae				
<i>Spiochaetopterus costarum</i>				
Cirratulidae				
<i>Cautleriella alata</i>				
<i>Chaetozone corona</i>	16			16
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	1312	2864	1440	96
Cossuridae				
<i>Cossura candida</i>	656	1456	1072	5840
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>	16	16		
<i>Glycera capitata</i>		16		
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				32
Goniodidae				
<i>Glycinde armigera</i>			16	

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A16

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>			16	
<i>Goniada littorea</i>				16
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>			96	
<i>Gyptis brunnea</i>	16		16	
<i>Ophiiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	48	144	192	64
Magelonidae				
<i>Magelona pacifica</i>	64	48		
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>	16			
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				16
<i>Nephtys caecoides</i>		16		
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	16	16	48	32
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"			16	
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	144	208	176	
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				32
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>	16			
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				16
Orbinidae				
<i>Haploscoloplos elongatus</i>	32			
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>			32	
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>		32	16	
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i> (= <i>Paraonis gracilis oculata</i>)	320	592	720	16

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A16

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>				16
Phyllodoceidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>		16		
<i>Eteone dilatata</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.		16		
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>	16			
<i>Sigambra tentaculata</i>	32	32	80	48
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>				
<i>Harmothoe priops</i>	16	16		
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>		16		
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>	32		16	
<i>Chone veleronis</i>				
<i>Chone</i> sp.			16	
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>				
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelia uniformis</i>	16	16		
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A16

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>		16	48	
<i>Paraprionospio pinnata</i> (= <i>Frionospio pinnata</i>)	48	80	64	
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)		16		
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	432	576	16	1696
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>		48	32	
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)		96	16	
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>	16			
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	64	32	16	
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>		16		
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista ?disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				16
<i>Streblosoma crassibranchia</i>		16	32	
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A16

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	16			
<i>Ampelisca cristata</i>			32	16
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>	64	16	64	
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Liatriella goleta</i>	32			16
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.	16			
Copepoda-Canaloida				
Copepoda-Cyclopoida	176	96		80
<i>Clausidium vancouverense</i>				
Copepoda-Harpacticoida				
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>				
Lamproidae	16			
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancriidae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	160			
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>		48	16	16
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS

STATION A16

BENTHIC DATA

6 Jan
197810 Apr
197810 Jul
197813 Oct
1978

ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

80

16

96

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

16

16

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.

32

32

96

96

Upogebia sp.

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Muna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

16

Ostracoda

16

Cylindroleberdinae

Euphilomedes carcharodonta

64

16

64

96

144

Philomedes sp.*Rutiderma rostrata**Sarsiella* sp.

16

Scleroconcha sp.

Tanaidacea

Leptocheilia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

160

32

BRACHIPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A16

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys
Gobiidae (larvae)
Clevelandia ios
Urochordata
Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?*occidentalis*
Amphiodia urtica
Amphiodia sp. (juv.)

16

16

ECHIURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

16

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A16

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>				
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>	32	16	48	
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>				
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Turbonilla</i> sp.				
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>				
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>		16		
<i>Nassarius perpinguis</i>	16			
Olividae				
<i>Olivella baetica</i>	16	32	128	
Turridae				
<i>Kurtziella plumbea</i>		16		
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>				
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
<i>?Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "				
Lucinidae				
<i>Lucina nuttalli</i>		16		
<i>Parvilucina tenuisculpta</i>	48		64	
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A16

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Macluridae				
<i>Maclura californica</i>				16
<i>Spisula</i> sp.				32
<i>Tresus nuttalli</i>			16	
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>		16		
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>		96	32	96
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>	80			
<i>Theora lubrica</i>			16	
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.	16			
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>	64	16		
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>		16		
<i>Macoma</i> sp. (juv.)		16		
<i>Tellina carpenteri</i>			32	16
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A16

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>		48	64	16
<i>Tellina</i> sp. (juv.)			48	
Thraciidae				
<i>Thracia curta</i>	32			
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>	16			
Veneridae				
<i>Compsomyax subdiaphana</i>				
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)		16	48	
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	80	48	240	64
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia			16	
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A17

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA		48		
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>	32			
<i>Amphicteis scaphobranchiata</i>	16			16
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				16
<i>Drilonereis falcata</i>	16		16	48
Capitellidae				
? <i>Anotomastus gordioides</i>				64
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	640	2704	656	
<i>Notomastus tenuis</i>	32		96	80
Chaetopteridae	16			
<i>Spiochaetopterus costarum</i>			32	
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	16			48
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	352	1568	336	608
Cossuridae				
<i>Cossura candida</i>	48	304	80	176
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>		48	48	32
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>	32			32
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)		32	16	
Gonioididae				
<i>Glycinde armigera</i>		48		

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A17

	6 Jan 1978	10 Apr 1978	10 Jul. 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>	48	32	32	
<i>Goniada littorea</i>			16	
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	32	80		
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	144	352	80	192
Magelonidae				
<i>Magelona pacifica</i>	32	32		
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>	16	16	16	16
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>		64	96	
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	96	160	80	32
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)	16			
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>	16			
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>		32	48	16
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>		16	32	
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>		16		
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	384	512	80	272
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A17

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>				
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>		16	16	
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Ancistrosyllis hamata</i>			16	
<i>Pilargis berkeleyi</i>		16		
<i>Sigambra tentaculata</i>	48	144	48	32
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>		16		
<i>Poecilochaetus</i> sp. (branchiate)	16			
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>	16			16
<i>Harmothoe priops</i>				
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.	16			
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>	32			
<i>Chone veleronis</i>				
<i>Chone</i> sp.				16
<i>Euchone incolor</i>	16			
<i>Eucone limnicola</i>				
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelle uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A17

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	32			64
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	48	80	48	32
<i>Polydora bioceipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)	16			
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	16	272	128	32
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>			16	32
<i>Prionospio steenstrupi</i> (= <i>P. nx. malmgreni</i>)	256	112	48	16
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>		32		
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	48			16
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>		32		
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>	16		96	48
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>		16		16
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A17

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea				
<i>Ampelisca cristata</i>		16	16	32
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>	48		48	784
<i>Argissa hamatipes</i>		16		
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>		16		
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida				
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>				
Copepoda-Harpacticoida				
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A	16			
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>			16	32
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C	16			
<i>Campylaspis</i> sp.		16		
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancriidae				
<i>Cancer</i> sp.	16			
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>			16	
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				16
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A17

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.*Upogebia* sp.

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

Ostracoda

Cylindroleberdinae

*Euphilomedes carcharodonta**Philomedes* sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

64

176

16

32

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A17

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

16

Edwardsia nr. *sipunculoides*

Isoedwardsia sp. A

16

16

Pennatulacea

?*Stylatula elongata*

Virgularia nr. *reinswardi*

Ceriantharia

Botrucnidifer sp.

Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta

Corymorpha aurata

Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

48

Amphiodia ?occidentalis

Amphiodia urtica

Amphiodia sp. (juv.)

ECHIURA

Listriolobus pelodes

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

48

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

Acteocina culcitella

Acteocina harpa

Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION A17

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)	16			
<i>Aglaja</i> sp.			48	
<i>Cylichna diegensis</i>				
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>				
<i>Sulcoretusa</i> sp.			16	
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>				
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odotomia</i> sp.				
<i>Turbonilla</i> sp.				
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>				16
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>	80	80	48	
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>	32	128	32	
Turridae				
<i>Kurtziella plumbea</i>	16			
Pelecypoda (juv.)		16		32
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>			16	96
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
"Lepton meroeum"	16			
Lucinidae				
<i>Lucina nuttalli</i>			16	48
<i>Parvilucina tenuisculpta</i>	80	96	16	32
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A17

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mastridae				
<i>Mastra californica</i>				
<i>Spisula</i> sp.				16
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>		112		
<i>Mysella pedroana</i>			16	
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>				16
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>		16		
Solenidae				
<i>Ensis myrae</i>				16
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>	16			
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>	64		16	
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)			16	
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION A17

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>	48	32	16	80
<i>Tellina</i> sp. (juv.)	80	16		
Thraciidae				
<i>Thracia curta</i>		32	32	
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>				
Veneridae				
<i>Compsomyax subdiaphana</i>				
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)	16			16
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	208	208	112	64
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA		32		
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>	16		32	
<i>Amphicteis scaphobranchiata</i>			48	16
<i>Melinna oculata</i>		48	16	16
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>		32		
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	16			
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>	16			
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	656	1152	3328	64
<i>Notomastus tenuis</i>			16	32
Chaetopteridae				
<i>Spiochaetopterus costarum</i>	16	16	48	
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	32		16	
<i>Chaetozone setosa</i>			32	
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	1360	2272	2160	1008
Cossuridae				
<i>Cossura candida</i>	36	144	112	96
Dorvilleidae				
"branchiate dorvilleid"	16			
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>		16	32	
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>		16	32	32
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>				
<i>Glycera capitata</i>		48		16
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rourii</i>			16	
<i>Glycera</i> sp. (juv.)	16			
Gonioididae				
<i>Glycinde armigera</i>	48			16

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>	32			32
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Cyrtis brevipalpa</i>	48	32	128	16
<i>Cyrtis brunnea</i>		16	16	
<i>Ophiodromus pugettensis</i>	16			
Lumbrineridae				
<i>Lumbrineris</i> spp.	448	400	384	192
Magelonidae				
<i>Magelona pacifica</i>	16			
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>	304		480	80
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.		464		
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>		16		16
<i>Nephtys californiensis</i>		16		
<i>Nephtys cornuta franciscana</i>	16	16	32	16
<i>Nephtys ferruginea</i>		16		
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>		208	272	176
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>	32			
<i>Nothria iridescens</i>		16	32	48
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>	16	16		16
Oweniidae				
<i>Owenia collaris</i>	32	32	16	
Paraonidae				
<i>Acesta catherinde</i>	176		16	336
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>		256	64	16
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>	32	16	480	
<i>Tauberia oculata</i>	96	416	80	
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>				16
Phyllodocidae				
<i>Anaitides nr. papillosa</i>				16
<i>Eteone californica</i>				
<i>Eteone dilatata</i>		16	32	
<i>Eteone sp.</i>				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce sp.</i>	16	16	32	16
Pilargiidae				
<i>Ancistrosyllis hamata</i>	16		32	
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	160	48	16	64
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>	80			
<i>Poecilochaetus sp. (branchiate)</i>			16	16
Polynoidae				
<i>Halosydna johnsoni</i>		32		32
<i>Harmothoe imbricata</i>	32	32		
<i>Harmothoe priops</i>	16	32		48
<i>Harmothoe scriptoria</i>				
<i>Harmothoe sp.</i>				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes sp.</i>				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone sp.</i>	64	48	48	16
<i>Euchone incolor</i>			96	
<i>Eucone limnicola</i>				
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelia uniformis</i>	16	16		
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia sp.</i>				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>			16	
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	96	144	112	128
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)		16		32
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				32
<i>Prionospio cirrifera</i>	512	32	240	112
<i>Prionospio heterobranchia</i>				32
<i>Prionospio pygmaeus</i>		304	240	208
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)	64	80	48	
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>			112	32
<i>Spiophanes bombyx</i>	32			
<i>Spiophanes missionensis</i>	32	48	32	32
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>			32	32
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>	48			
<i>Pista fasciata</i>		16	128	80
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	16	32	32	16
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	224	192	480	272
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida	176			
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>		16		
Copepoda-Harpacticoida			32	
Cumacea	16	32	336	160
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>	16	16	80	
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaita tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	48		16	48
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>		48		
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Decapoda (cont.)				
Brachyura (cont.)				
Pinnotheridae (cont.)				
<i>Pinnixa tubicola</i>				
<i>Pinnixa</i> sp.			240	
<i>Scleroplax granulata</i>				
Caridea				
Alpheidae				
<i>Alpheus californiensis</i>				
<i>Betaeus ensenadensis</i>				
<i>Betaeus harrimani</i>				
<i>Betaeus ?longidactylus</i>				
<i>Betaeus</i> sp.				
Crangonidae				
<i>Crangon ?nigromaculata</i>				
Hippolytidae				
<i>Heptacarpus</i> sp.				
Macrura				
Callinassidae				
<i>Callinassa</i> sp.	32	64	128	96
<i>Upogebia</i> sp.				
Isopoda				
<i>Gnathia crenulatifrons</i>	16	16	224	32
<i>Gnathia</i> sp.				
<i>Munna</i> sp.				
<i>Serolis carinata</i>				
<i>Serolis</i> sp.	32			
Mysidacea				
	16		48	
Ostracoda				
Cylindroleberdinae		16	32	
<i>Euphilomedes carcharodonta</i>	48	64		
<i>Philomedes</i> sp.				
<i>Rutiderma rostrata</i>	32			
<i>Sarsiella</i> sp.				
<i>Scleroconcha</i> sp.	16			
Tanaidacea				
<i>Leptocheilia</i> sp.				
Thoracica (barnacle)				
<i>Balanus tintinnabulum californicus</i>				
<i>Balanus</i> sp.				
ARTHROPODA PYCNOGONIDA				
<i>Anoplodactylus erectus</i>				
<i>Callipallene californiensis</i>				
ASCHELMINTHES				
Nematoda				
	224	128	32	
BRACHIOPODA				
<i>Glottidia albida</i>				
				16

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
BRYOZOA (=ECTOPROCTA)				
<i>Bowerbankia gracilis</i>				
<i>Bugula neritina</i>				
CHAETOGNATHA	16			
CHORDATA				
Osteichthys				
Gobiidae (larvae)		16		
<i>Clevelandia ios</i>				
Urochordata				
Ascidacea			16	
CNIDARIA (=COELENTERATA)				
Anthozoa				
Actinaria				
<i>Diadumene</i> sp.				
Edwardsiidae				
<i>Edwardsia</i> nr. <i>sipunculoides</i>				
<i>Isoedwardsia</i> sp. A		16		
Pennatulacea				
? <i>Stylatula elongata</i>				
<i>Virgularia</i> nr. <i>reinswardi</i>				
Ceriantharia				
<i>Botrucnidifer</i> sp.			16	
<i>Pachycerianthus</i> sp.				
Hydrozoa - Hydroida				
<i>Bimeria robusta</i>				
<i>Corymorpha aurata</i>				
<i>Obelia dichotoma</i>				
ECHINODERMATA				
Holothuroidea				
<i>Leptosynapta albicans</i>				
Ophiuroidea (juv.)				
144	16	16	48	
<i>Amphiodia ?occidentalis</i>				
<i>Amphiodia urtica</i>				
<i>Amphiodia</i> sp. (juv.)				
ECHIURA				
<i>Listriolobus pelocles</i>				
ENTOPROCTA				
<i>Barentsia discreta</i>				
HEMICHORDATA				
Enteropneusta				
MOLLUSCA				
Gastropoda				
Ophisthobranchia				
Cephalaspidea				
<i>Acteocina culcitella</i>		16		
<i>Acteocina harpa</i>	16			16
<i>Aglaja ocelligera</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>	16		32	
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>		16	16	32
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>				48
<i>Volvulella</i> sp.	32			
Pyramidellida				
<i>Odostomia</i> sp.			16	
<i>Turbonilla</i> sp.	64			
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepidatella lingulata</i>)				
<i>Crepidula</i> sp.	16			
Naticidae				
<i>Neverita reclusiana</i>		16		
Vitrinellidae				
<i>Vitrinella oldroydi</i>				
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>			16	
<i>Nassarius mendicus</i>				
<i>Nassarius perpunguis</i>				
Olividae				
<i>Olivella baetica</i>	304			32
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>		16	32	
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
<i>?Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "	112			
Lucinidae				
<i>Lucina nuttalli</i>				16
<i>Parvilucina tenuisculpta</i>	144	128		160
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>			16	
<i>Spisula</i> sp.				16
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				432
<i>Mysella pedroana</i>	64	128		48
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.	32	16		16
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
<i>?Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>				
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>			16	
<i>Solen sicarius</i>				
<i>Solen</i> sp.	16			
Tellinidae				
<i>Leporimetus obesa</i>				
<i>Macoma acolasta</i>	32	32	48	96
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma rasuta</i>				
<i>Macoma</i> sp. (juv.)				
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>			48	
<i>Tellina</i> sp. (juv.)	176	128		64
Thraciidae				
<i>Thracia curta</i>	64	144		96
Thasiridae				
<i>Axinopsida serricata</i>		16		
<i>Thyasira flexuosa</i>		32		16
Veneridae				
<i>Compsomyax subdiaphana</i>				96
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)	16			48
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>			48	
NEMERTEA	192	96	288	
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.		32		
<i>Phoronopsis</i> sp.				16
PLATYHELMINTHES				
Polycladia			16	
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	16			
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>		16	16	16
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	8192	5104	432	816
<i>Notomastus tenuis</i>	16	16		
Chaetopteridae				
<i>Spiochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	1504	768	160	256
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	672	512	224	176
Cossuridae				
<i>Cossura candida</i>	1856	15,040	464	800
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>	32			
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>	32	32		16
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	80	128	48	48
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>		16		
Lumbrineridae				
<i>Lumbrineris</i> spp.	112	96		16
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>		32		
<i>Asychis</i> sp.				
<i>Ariothella</i> sp.				16
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	160	144		112
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	224	160		32
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				48
Orbiniidae				
<i>Haploscoloplos elongatus</i>	640	192	16	48
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>	16			
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>		32		
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	320	880	48	48
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>	16			
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatae</i>		16		
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	1648	1280	96	96
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus</i> sp. (branchiate)			32	
Polynoidae				
<i>Halosydna johnsoni</i>			32	
<i>Harmothoe imbricata</i>	48	16		
<i>Harmothoe priops</i>				
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.				
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>		144	32	32
<i>Magelomma pigmentum</i>				16
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelia uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				16
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	32			16
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	16			16
<i>Polydora bioccephitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)			16	
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	2784	1568	592	1184
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>		32		16
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)	48			
<i>Prionospio</i> sp.	16			
<i>Pseudopolydora paucibranchiata</i>				
<i>Scoelelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>	16			
<i>Spiophanes missionensis</i>		16		
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>	16	16		
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				64
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	208	32		16
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	32	32	16	
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida	48	16		
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>	1184	176	464	
Copepoda-Harpacticoida	2272		16	
Cumacea	16			
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Ocyurostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	48			
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>			48	
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

128

352

32

480

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

16

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.

112

160

208

192

Upogebia sp.

Isopoda

16

32

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

32

Ostracoda

48

Cylindroleberdinae

16

Euphilomedes carcharodonta

16

Philomedes sp.*Rutiderma rostrata*

16

Sarsiella sp.

16

Scleroconcha sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

Anoplodactylus erectus

16

Callipallene californiensis

ASCHELMINTHES

Nematoda

48

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B2

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

*Bowerbankia gracilis**Bugula neritina*

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)

Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides**Isoedwardsia* sp. A

Pennatulacea

*?Stylatula elongata**Virgularia* nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.*Pachycerianthus* sp.

Hydrozoa - Hydroida

*Bimeria robusta**Corymorpha aurata**Obelia dichotoma*

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

16

Ophiuroidea (juv.)

32

*Amphiodia ?occidentalis**Amphiodia urtica**Amphiodia* sp. (juv.)

ECHIUURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

*Acteocina culcitella**Acteocina harpa**Aglaia ocelligera*

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B2

6 Jan 10 Apr 10 Jul 13 Oct
1978 1978 1978 1978

MOLLUSCA (cont.)

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>	32			
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>				
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>				
<i>Volvulella</i> sp.	16			
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Turbonilla</i> sp.	48	32		
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>	48	96	32	
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>				
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>				
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)	64			192
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>				
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "	32		80	32
Lucinidae				
<i>Lucina nuttalli</i>				
<i>Parvilucina tenuisculpta</i>	16			
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				16
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>		16		
<i>Mysella pedroana</i>		48		
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>	208	64	112	32
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.	16			
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>	384	176		320
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				16
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.		16		
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>				
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)				
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)	16			
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>	16	16		
Veneridae				
<i>Compsomyax subdiaphana</i>	16			
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)	16			
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>	32	16		
NEMERTEA	576	368	32	32
PHORONIDA				
<i>Phoronis pallida</i>			16	
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>			32	
<i>Amphicteis scaphobranchiata</i>			16	
<i>Melinna oculata</i>	16			16
Arabellidae				
<i>Arabella</i> sp.			16	
<i>Drilonereis falcata</i>				
Capitellidae				
<i>?Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	512	1168	3040	2592
<i>Notomastus tenuis</i>		80	16	
Chaetopteridae				
<i>Spiochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	48	48	48	32
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	1124	784	1552	1312
Cossuridae				
<i>Cossura candida</i>	3776	2496	2436	6288
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>		16		
Eunicidae				
<i>Marphysa belli oculata</i>		32	96	16
<i>Marphysa disjuncta</i>	80	16		16
Flabelligeridae				
<i>Pherusa capulata</i>			32	16
Glyceridae				
<i>Glycera americana</i>	64	16		
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rousii</i>				
<i>Glycera</i> sp. (juv.)			16	
Gonioididae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniididae (cont.)				
<i>Goniada brunnea</i>			16	
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	112	96	256	304
<i>Gyptis brunnea</i>				96
<i>Ophiodromus pugettensis</i>	16			
Lumbrineridae				
<i>Lumbrineris</i> spp.	16	176	160	48
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>	64	32	144	112
<i>Asychis</i> sp.				
<i>Ariothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	352	816	368	624
<i>Nephtys ferruginea</i>				16
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>		144	48	32
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>	16			
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>		16		
Opheliidae				
<i>Armandia bioculata</i>				
Orbinidae				
<i>Haploscoloplos elongatus</i>		560	512	224
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				48
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>			80	
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	320	528	608	784
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>	48			
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	208	224	384	496
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus</i> sp. (branchiate)				16
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>	16		16	
<i>Harmothoe priops</i>				
<i>Harmothoe scriptoria</i>			16	
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.				
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>				
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>	32		16	
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelle uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	16	16	80	48
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	16	16		
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	432	384	496	288
<i>Prionospio heterobranchia</i>				16
<i>Prionospio pygmaeus</i>	16	16		
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)				
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scoelelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>			32	
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>				
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				16
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>			16	
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>			16	208
? <i>Amage</i> sp.			16	
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista ?disjuncta</i>				
<i>Pista fasciata</i>			32	
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	144	80	32	96
Trichobranchidae				
<i>Terebellides stroemi</i>			16	32
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	128	32	32	144
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus sculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida	16			
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>				
Copepoda-Harpacticoida				
Cumacea				128
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>		16	16	
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>			16	
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	16	48	96	
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				48
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>		16		
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

32

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.

144

96

96

64

Upogebia sp.

Isopoda

32

96

*Gnathia crenulatifrons**Gnathia* sp.*Muna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

Ostracoda

32

Cylindroleberdinae

*Euphilomedes carcharodonta**Philomedes* sp.*Rutiderna rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

16

48

48

32

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS

STATION B3

BENTHIC DATA

6 Jan
197810 Apr
197810 Jul
197813 Oct
1978

BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys
Gobiidae (larvae)
Clevelandia ios
Urochordata
Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?Stylatula elongata
Virgularia nr. *reinswardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

16

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

128

48

16

16

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

ECHIUURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

32

32

Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>		16		
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.			112	
<i>Rictaxis punctocaelatus</i>		16		
<i>Sulcoretusa</i> sp.				16
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>		96	144	64
<i>Volvulella</i> sp.	112			16
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Turbonilla</i> sp.	16			
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>	32		80	496
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>				16
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>	16	16	64	32
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>				
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "	32	16	32	
Lucinidae				
<i>Lucina nuttalli</i>				
<i>Parvilucina tenuisculpta</i>	192	32	64	48
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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MOLLUSCA (cont.)

Pelecypoda (cont.)

Lyonsiidae

Lyonsia californica

Mactridae

*Mactra californica**Spisula* sp.*Tresus nuttalli*

Montacutidae

*Mysella grippi**Mysella pedroana**Mysella* sp.

16

16

16

Myidae

*Cryptomya californica**Platydon cancellatus*

Mytilidae

*Crenella divaricata**Crenella* sp.*Magacrenella columbiana*

16

Nuculanidae

Nuculana sp.

16

Pandoridae

Pandora sp.

Pectinidae

Leptopecten latiauratus

Periplomatidae

Periploma planiusculum

Petricolidae

Petricola sp.

Psammobiidae

?Gari californica

Semelidae

*Cumingia californica**Theora lubrica*

80

32

Solecurtidae

*Tagelus californianus**Tagelus subteres*

Solenidae

*Ensis myrae**Siliqua lucida**Solen rosaceus**Solen sicarius**Solen* sp.

Tellinidae

*Leporimetus obesa**Macoma acolasta*

48

*Macoma carlottensis**Macoma indentata**Macoma nasuta**Macoma* sp. (juv.)

16

*Tellina carpenteri**Tellina idae*

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)				
Thraciidae				
<i>Thracia curta</i>	192	80	48	16
Thasiridae				
<i>Azinopsida serricata</i>				
<i>Thyasira flexuosa</i>	16	32	16	32
Veneridae				
<i>Compsomyax subdiaphana</i>	64	16	48	
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)	64			
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>	16		32	32
NEMERTEA	288	352	240	144
PHORONIDA				
<i>Phoronis pallida</i>			32	
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia			16	
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	16	16		
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				48
<i>Amphicteis scaphobranchiata</i>	32	16		128
<i>Melinna oculata</i>			64	
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>			16	
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	208	1376	2304	2992
<i>Notomastus tenuis</i>	32	96	64	32
Chaetopteridae				
<i>Spiochaetopterus costarum</i>	16		16	
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	192	160	352	256
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	1600	480	1344	1360
Cossuridae				
<i>Cossura candida</i>	2192	2800	3024	4736
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				16
Eunicidae				
<i>Marphysa belli oculata</i>		16	16	176
<i>Marphysa disjuncta</i>	16		32	48
Flabelligeridae				
<i>Pherusa capulata</i>		16		
Glyceridae				
<i>Glycera americana</i>	32	32		
<i>Glycera capitata</i>			48	
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rowii</i>				
<i>Glycera</i> sp. (juv.)			16	
Gonioididae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	64	208	112	272
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	144	96	64	128
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
	96	112	144	240
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Ariothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	224	208	272	656
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>	16			
<i>Nereis procera</i>	144	144	144	64
<i>Nereis</i> sp. (juv.)				
Onuphidae				
		64		
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				16
<i>Diopatra</i> sp. (juv.)			16	
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>	176	112	432	528
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	48	256	352	400
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>	32	16	32	16
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	400	528	464	448
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>	16			16
<i>Poecilochaetus</i> sp. (branchiate)		16		
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>		16	16	
<i>Harmothoe priops</i>		16	32	
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.				16
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>		16	128	128
<i>Magelomma pigmentum</i>	16			
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelle uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	64	112	128	80
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	32			32
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	48	96	80	208
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>	16			
<i>Prionospio steenstrupi</i> (= <i>P. n. malmgreni</i>)	48	16		32
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>	16	16		
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>			16	
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Ecogone lourei</i>				
<i>Ecogone verrugera</i>				
<i>Ecogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>	16			48
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>			16	48
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>		16		
<i>Pista</i> sp. (juv.)			16	32
<i>Streblosoma crassibranchia</i>	320	256	32	288
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	96	80	304	176
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Eriethonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida				
Copepoda-Cyclopoida		16		
<i>Clausidium vancouverense</i>				32
Copepoda-Harpacticoida				
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.	16			
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>			64	
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaisia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	64		144	
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				64
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B4

6 Jan 10 Apr 10 Jul 13 Oct
1978 1978 1978 1978

ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp. 16*Scleroplax granulata* 64 64 16

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp. 64 64 96 48*Upogebia* sp.

Isopoda

Gnathia crenulatifrons 16 16 16*Gnathia* sp. 32*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea 32

Ostracoda 64 32

Cylindroleberdinae

Euphilomedes carcharodonta 48*Philomedes* sp. 32*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle) 16

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda 80 112

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
BRYOZOA (=ECTOPROCTA)				
<i>Bowerbankia gracilis</i>				
<i>Bugula neritina</i>				
CHAETOGNATHA				
CHORDATA				
Osteichthys				
Gobiidae (larvae)				
<i>Clevelandia ios</i>				
Urochordata				
Ascidacea				
CNIDARIA (=COELENTERATA)				
Anthozoa				
Actinaria				
<i>Diadumene</i> sp.				
Edwardsiidae				
<i>Edwardsia</i> nr. <i>sipunculoides</i>				
<i>Isoedwardsia</i> sp. A				16
Pennatulacea				
? <i>Stylatula elongata</i>				
<i>Virgularia</i> nr. <i>reinwardi</i>				
Ceriantharia				
<i>Botrucnidifer</i> sp.				
<i>Pachycerianthus</i> sp.				
Hydrozoa - Hydroida				
<i>Bimeria robusta</i>				
<i>Corymorpha aurata</i>				
<i>Obelia dichotoma</i>				
ECHINODERMATA				
Holothuroidea				16
<i>Leptosynapta albicans</i>				
Ophiuroidea (juv.)	64	32	64	48
<i>Amphiodia ?occidentalis</i>				
<i>Amphiodia urtica</i>				
<i>Amphiodia</i> sp. (juv.)				
ECHIURA				
<i>Listriolobus pelocles</i>				
ENTOPROCTA				
<i>Barentsia discreta</i>				
HEMICHORDATA				
Enteropneusta				
MOLLUSCA				
Gastropoda				
Ophisthobranchia				
Cephalaspidea		32		16
<i>Acteocina culcitella</i>				16
<i>Acteocina harpa</i>				
<i>Aglaja ocelligera</i>				16

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>		16	16	64
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.			64	
<i>Rictaxis punctocaelatus</i>	16	32		16
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>		48		
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.		16		
<i>Turbonilla</i> sp.	32			
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Partulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>			48	
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>				
<i>Nassarius perpunguis</i>				
Olividae				
<i>Olivella baetica</i>	16	80	16	80
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>				16
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
<i>?Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "	64	16	64	16
Lucinidae				
<i>Lucina nuttalli</i>				
<i>Parvilucina tenuisculpta</i>	144	112	32	32
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>	16			
<i>Mysella</i> sp.				16
Myidae				
<i>Cryptomya californica</i>				16
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				16
Nuculanidae				
<i>Nuculana</i> sp.	64	16		96
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammbiidae				
<i>?Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>	48	32	192	48
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>				
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)				16
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>	16			

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)		16		
Thraciidae				
<i>Thracia curta</i>	64	32	16	
Thasiridae				
<i>Axinopsida serricata</i>			16	
<i>Thyasira flexuosa</i>	64	64		32
Veneridae				
<i>Compsomyax subdiaphana</i>	48	32	16	16
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>			32	
NEMERTEA	208	272	240	96
PHORONIDA				
<i>Phoronis pallida</i>		32	32	48
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B5

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	32		112	32
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>	16	16	16	16
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>			16	
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	16			
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	3872	4000	9408	3792
<i>Notomastus tenuis</i>	928	272	688	112
Chaetopteridae				
<i>Spiochaetopterus costarum</i>	32		16	
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	1216	720	432	576
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriiformia luxuriosa</i>				
<i>Tharyx</i> sp.	2000	816	1392	1216
Cossuridae				
<i>Cossura candida</i>	144	2544	1936	1424
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>	16	32		
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>	16		32	
Glyceridae				
<i>Glycera americana</i>	16		16	16
<i>Glycera capitata</i>		48		
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				16
Gonioididae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B5

	6 Jan 1978	10 Apr 1978	10 Jul. 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>	32			
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	176	176	224	144
<i>Gyptis brunnea</i>		16		
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	96	80	144	80
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>	48	176	16	
<i>Asychis</i> sp.			16	
<i>Axiothella</i> sp.			32	
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	240	336	240	384
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	448	32	96	128
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>	16			
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>	16		16	
Orbiniidae				
<i>Haploscoloplos elongatus</i>	368	752	480	256
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>		16	48	
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>		16		16
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B5

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>	32			48
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>	64			
<i>Eteone</i> sp.		48		
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.	96			
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	320	352	448	304
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>	32			
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				16
<i>Harmothoe imbricata</i>			16	
<i>Harmothoe priops</i>		32		
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.	16			
<i>Euchone incolor</i>			16	
<i>Eucone limnicola</i>	32	16	992	160
<i>Magelomma pigmentum</i>				16
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>	48			96
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>		16		16
<i>Sthenelais verruculosa</i>			16	
<i>Sthenelanelle uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				16
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B5

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	16	80	160	48
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	16	32		
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	48	96	176	224
<i>Prionospio heterobranchia</i>				16
<i>Prionospio pygmaeus</i>	16			
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)	16			16
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>				
<i>Streblospio benedicti</i>				16
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.			16	
<i>Exogone lourei</i>			16	32
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.	16			
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.	32			
Terrebellidae				
<i>Amaeana occidentalis</i>				128
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				16
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	144	80	80	16
Trichobranchidae				
<i>Terebellides stroemi</i>	16			
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				48
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B5

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	64	80	144	96
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Eriethonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida	16			
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>		48	244	176
Copepoda-Harpacticoida	16			
Cumacea		16	32	
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.	16			
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B5

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Decapoda (cont.)				
Brachyura (cont.)				
Pinnotheridae (cont.)				
<i>Pinnixa tubicola</i>		80		
<i>Pinnixa</i> sp.			16	48
<i>Scleroplax granulata</i>		112	176	128
Caridea				
Alpheidae				
<i>Alpheus californiensis</i>				
<i>Betaeus ensenadensis</i>				
<i>Betaeus harrimani</i>			16	
<i>Betaeus ?longidactylus</i>				
<i>Betaeus</i> sp.				
Crangonidae				
<i>Crangon ?nigromaculata</i>				
Hippolytidae				
<i>Heptacarpus</i> sp.				
Macura				
Callianassidae				
<i>Callianassa</i> sp.			336	176
<i>Upogebia</i> sp.				
Isopoda				
<i>Gnathia crenulatifrons</i>	16			
<i>Gnathia</i> sp.				
<i>Mona</i> sp.				
<i>Serolis carinata</i>				
<i>Serolis</i> sp.				
Mysidacea				
16				
Ostracoda				
Cylindroleberdinae	80	320	256	144
<i>Euphilomedes carcharodonta</i>	16			
<i>Philomedes</i> sp.	16			
<i>Rutiderma rostrata</i>				
<i>Sarsiella</i> sp.				
<i>Soleroconcha</i> sp.				
Tanaidacea				
<i>Leptocheilia</i> sp.				
Thoracica (barnacle)				
<i>Balanus tintinnabulum californicus</i>				
<i>Balanus</i> sp.				
ARTHROPODA PYCNOGONIDA				
16				
<i>Anoplodactylus erectus</i>			16	32
<i>Callipallene californiensis</i>				
ASCHELMINTHES				
Nematoda				
				64
BRACHIPODA				
<i>Glottidia albida</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B5

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

*Bowerbankia gracilis**Bugula neritina*

16

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)

Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

16

Edwardsiidae

Edwardsia nr. *sipunculoides**Isoedwardsia* sp. A

Pennatulacea

*?Stylatula elongata**Virgularia* nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.*Pachycerianthus* sp.

Hydrozoa - Hydroida

*Bimeria robusta**Corymorpha aurata**Obelia dichotoma*

16

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

16

32

*Amphiodia ?occidentalis**Amphiodia urtica**Amphiodia* sp. (juv.)

ECHIURA

Listriolobus pelodes

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

16

Ophisthobranchia

Cephalaspidea

*Acteocina culcitella**Acteocina harpa**Aglaja ocelligera*

16

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B5

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)		16		
<i>Aglaja</i> sp.				16
<i>Cylichna diegensis</i>	16			
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>		16		
<i>Sulcoretusa</i> sp.	16			
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>				
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Turbonilla</i> sp.	32			16
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>		32		
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>				
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>				
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)	16			48
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>				16
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "		32	32	
Lucinidae				
<i>Lucina nuttalli</i>				
<i>Parvilucina tenuisculpta</i>	80	48		32
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B5

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>			48	
<i>Mysella pedroana</i>				
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>			48	16
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>	32	80	96	16
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>		16		
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.	16			
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>	32			16
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>	32	32	32	16
<i>Macoma</i> sp. (juv.)			32	
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B5

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>			16	
<i>Tellina</i> sp. (juv.)	64			
Thraciidae				
<i>Thracia curta</i>	48	48		
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>	80	112	112	
Veneridae				
<i>Compsomyax subdiaphana</i>	96		80	32
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				16
Scaphopoda				
<i>Cadulus fusiformis</i>		16		
NEMERTEA	240	352	512	256
PHORONIDA				
<i>Phoronis pallida</i>			432	1040
<i>Phoronis</i> sp.				112
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				16
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B6

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	32	112	432	800
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphiteis scaphobranchiata</i>				
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>			32	16
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	2288	1520	704	800
<i>Notomastus tenuis</i>	16	16		16
Chaetopteridae				
<i>Spiochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				32
<i>Chaetozone corona</i>	176	48	16	
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>		32		16
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	96	96	160	336
Cossuridae				
<i>Cossura candida</i>	48	48	176	304
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>	224	208	112	240
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>				16
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)	16	16		
Gonioididae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B6

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	32			16
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	96		48	48
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>		32	16	736
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	32	32		16
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>	16		16	32
Orbiniidae				
<i>Haploscoloplos elongatus</i>	112	16		32
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>				
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B6

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>				16
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.	16			
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	560	80	32	256
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>	16	16		
<i>Harmothoe priops</i>				
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				16
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.				
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>		2192	1152	48
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>	16	16		
<i>Sthenelais verruculosa</i>				
<i>Sthenelanella uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.	16			
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B6

6 Jan
197810 Apr
197810 Jul
197813 Oct
1978

POLYCHAETA (cont.)

Spionidae (cont.)

<i>Laonice cirrata</i>	16		16	16
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)				16
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>				
<i>Prionospio heterobranchia</i>	16	16		32
<i>Prionospio pygmaeus</i>				
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)	16			
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>			16	
<i>Scoelelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	64			
<i>Streblospio benedicti</i>				

Sternaspidae

Sternaspis fossor

Syllidae

Brania sp.*Exogone lourei**Exogone verrugera**Exogone* sp.? *Langerhansia* sp.*Sphaerosyllis californiensis**Typosyllis* sp.

Terrebellidae

Amaeana occidentalis? *Amage* sp.*Loimia medusa**Lysippe labiata**Pista* ? *disjuncta**Pista fasciata**Pista* sp. (juv.)*Streblosoma crassibranchia*

16

Trichobranchidae

Terebellides stroemi

ARTHROPODA CRUSTACEA

Amphipoda-Caprellidea

16

Caprellidae

*Caprella equilibra**Caprella* sp.

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B6

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	64			
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>			32	
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Eriethonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida				
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>			48	32
Copepoda-Harpacticoida				
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>		16		
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>		16	48	48
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	16			
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B6

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Decapoda (cont.)				
Brachyura (cont.)				
Pinnotheridae (cont.)				
<i>Pinnixa tubicola</i>				
<i>Pinnixa</i> sp.				
<i>Scleroplax granulata</i>		16	224	
Caridea				
Alpheidae				
<i>Alpheus californiensis</i>				
<i>Betaeus ensenadensis</i>				
<i>Betaeus harrimani</i>				
<i>Betaeus ?longidactylus</i>				
<i>Betaeus</i> sp.				
Crangonidae				
<i>Crangon ?nigromaculata</i>				
Hippolytidae				
<i>Heptacarpus</i> sp.				
Macrura				
Callinassidae				
<i>Callinassa</i> sp.		48	16	32
<i>Upogebia</i> sp.		16		
Isopoda				
<i>Gnathia crenulatifrons</i>		16		
<i>Gnathia</i> sp.				
<i>Munna</i> sp.				
<i>Serolis carinata</i>				
<i>Serolis</i> sp.				
Mysidacea	16		16	
Ostracoda				
Cylindroleberdinae				16
<i>Euphilomedes carcharodonta</i>	48			
<i>Philomedes</i> sp.	16			
<i>Rutiderma rostrata</i>				
<i>Sarsiella</i> sp.				
<i>Scleroconcha</i> sp.				
Tanaidacea		16		
<i>Leptochelia</i> sp.				
Thoracica (barnacle)				
<i>Balanus tintinnabulum californicus</i>				
<i>Balanus</i> sp.				
ARTHROPODA PYCNOGONIDA				
<i>Anoplodactylus erectus</i>				
<i>Callipallene californiensis</i>				
ASCHELMINTHES				
Nematoda	160	80		16
BRACHIOPODA				
<i>Glottidia albida</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B6

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

*Bowerbankia gracilis**Bugula neritina*

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)

Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

144

Anthozoa

Actinaria

Diadumene sp.

16

Edwardsiidae

Edwardsia nr. *sipunculoides**Isoedwardsia* sp. A

Pennatulacea

*?Stylatula elongata**Virgularia* nr. *reinswardi*

Ceriantharia

Botrucnidifer sp.*Pachycerianthus* sp.

Hydrozoa - Hydroida

*Bimeria robusta**Corymorpha aurata**Obelia dichotoma*

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

*Amphiodia ?occidentalis**Amphiodia urtica**Amphiodia* sp. (juv.)

ECHIURA

Listriolobus pelocies

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

*Acteocina culcitella**Acteocina harpa**Aglaia ocelligera*

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B6

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)			80	
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>				
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>				
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>				
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Turbonilla</i> sp.				
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>	16		16	48
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>				
<i>Nassarius perpunguis</i>				
Olividae				
<i>Olivella baetica</i>				
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)	16			16
Cardiidae				
<i>Laevicardium substriatum</i>			16	
Cooperellidae				
<i>Cooperella subdiaphana</i>				
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "			16	
Lucinidae				
<i>Lucina nuttalli</i>				
<i>Parvilucina tenuisculpta</i>	16			
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B6

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct. 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>		16		
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>	48	16		
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>	16			
<i>Theora lubrica</i>	160	224	816	2864
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>	16		32	
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>		16		
<i>Macoma acolasta</i>	96	32		
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				96
<i>Macoma</i> sp. (juv.)			32	48
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B6

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)	32			
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>	96			16
Veneridae				
<i>Compsomyax subdiaphana</i>	16	16	16	
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)	16		32	
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA		64	48	128
PHORONIDA	96			
<i>Phoronis pallida</i>		96	48	
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.			32	
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				16
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				16
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>				
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>		16		
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	5344	3536	4320	4928
<i>Notomastus tenuis</i>	16			
Chaetopteridae				
<i>Spirochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	384	848	528	80
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	1360	448	352	608
Cossuridae				
<i>Cossura candida</i>	768	1776	2016	1040
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>		16	16	
<i>Glycera capitata</i>		16		
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>		16	112	64
<i>Gyptis brunnea</i>	32			
<i>Ophiiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	16	32		32
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	96	144	48	512
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>			16	16
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>	112		80	32
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>				
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>			32	
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	288	384	544	480
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>	16			
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>	16			
<i>Harmothoe priops</i>				
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.				
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>	16	272	112	64
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelia uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	32	32	32	32
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)			16	16
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	112		64	80
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>				
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)				
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scoelelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>				16
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>				
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>	16			
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>				
Trichobranchidae				
<i>Terebellides stroemi</i>	16			
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	48	48	128	48
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida		32		32
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>		112		224
Copepoda-Harpacticoida	464			
Cumacea	16			
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae	16	16		96
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	32			
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Decapoda (cont.)				
Brachyura (cont.)				
Pinnotheridae (cont.)				
<i>Pinnixa tubicola</i>				
<i>Pinnixa</i> sp.			16	16
<i>Scleroplax granulata</i>		80	48	96
Caridea				
Alpheidae				
<i>Alpheus californiensis</i>				
<i>Betaeus ensenadensis</i>				
<i>Betaeus harrimani</i>				
<i>Betaeus ?longidactylus</i>	16			
<i>Betaeus</i> sp.				
Crangonidae				
<i>Crangon ?nigromaculata</i>				
Hippolytidae				
<i>Heptacarpus</i> sp.				
Macrura				
Callinassidae				
<i>Callinassa</i> sp.	112	144	240	
<i>Upogebia</i> sp.				
Isopoda				
<i>Gnathia crenulatifrons</i>				
<i>Gnathia</i> sp.				
<i>Munna</i> sp.				
<i>Serolis carinata</i>				
<i>Serolis</i> sp.				
Mysidacea				
		16	16	
Ostracoda				
		256	288	
Cylindroleberdinae	16			
<i>Euphilomedes carcharodonta</i>	160			1184
<i>Philomedes</i> sp.				
<i>Rutiderma rostrata</i>				
<i>Sarsiella</i> sp.				
<i>Scleroconcha</i> sp.				
Tanaidacea				
<i>Leptocheilia</i> sp.				
Thoracica (barnacle)				
<i>Balanus tintinnabulum californicus</i>				
<i>Balanus</i> sp.				
ARTHROPODA PYCNOGONIDA				
<i>Anoplodactylus erectus</i>				
<i>Callipallene californiensis</i>				
ASCHELMINTHES				
Nematoda				
BRACHIPODA				
<i>Glottidia albida</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B7

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reinsardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

ECHIUURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

16

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea
Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				16
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>		16		
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>			16	
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>				
<i>Volvulella</i> sp.	16			
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Turbonilla</i> sp.				
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>			80	240
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>				
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>				
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium subsiriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>				16
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				16
Leptonidae				
"Lepton meroeum"	32	16		
Lucinidae				
<i>Lucina nuttalli</i>				
<i>Parvilucina tenuisculpta</i>	48	16	32	48
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus muttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>	16			
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>	32	16	80	16
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>	16	336	320	496
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				16
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>				
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)			32	32
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)				
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>	16	16	32	16
Veneridae				
<i>Compsomyax subdiaphana</i>	16	32	16	64
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)			16	
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	192	176	96	128
PHORONIDA				
<i>Phoronis pallida</i>				16
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B8

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				
POLYCHAETA				
Ampharetidae	16			
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>	48			32
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>	32	32	16	32
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.	16			
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	432	384	2736	224
<i>Notomastus tenuis</i>		16	32	32
Chaetopteridae				
<i>Spiochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>		16		16
<i>Chaetozone setosa</i>	16			
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	1072	208	944	96
Cossuridae				
<i>Cossura candida</i>	416	832	3536	592
Dorvilleidae			16	
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>		32		
<i>Marphysa disjuncta</i>	32	32		32
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>				
<i>Glycera capitata</i>	32			
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)		48		
Gonioididae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B6

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>	16			
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)			16	
Hesionidae				
<i>Gyptis brevipalpa</i>	16	16	208	
<i>Gyptis brunnea</i>	16		64	
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	32	128	32	80
Magelonidae				
<i>Magelona pacifica</i>	128	64	16	
<i>Magelona pitelkai</i>				32
Maldanidae				
<i>Asychis disparidentata</i>	64	32	32	16
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>	16			
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	32	208	268	288
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	112	48	48	16
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				16
Orbiniidae				
<i>Haploscoloplos elongatus</i>	16	144	112	96
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>			48	
<i>Tauberia oculata</i>	560	496	64	144
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B8

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>			32	
Phyllodocidae				
<i>Anatides</i> nr. <i>papillosa</i>	16			
<i>Eteone californica</i>				
<i>Eteone dilatata</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.	16			
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				16
<i>Sigambra tentaculata</i>		80	384	176
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				16
<i>Poecilochaetus</i> sp. (branchiate)	16		16	
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>	32		16	
<i>Harmothoe priops</i>				
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>	16			
<i>Chone veleronis</i>	32			
<i>Chone</i> sp.	16			
<i>Euchone incolor</i>			16	
<i>Eucone limnicola</i>				
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				16
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelle uniformis</i>	16	16		
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Splonidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS

STATION B8

BENTHIC DATA

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	32	16	32	
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	64	80	16	48
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)		16		64
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	64	320	576	112
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>				32
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)		32		
<i>Prionospio</i> sp.		16		
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>			16	
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	128			
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>			16	
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>		16		
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	32	32	32	16
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B8

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	16		48	
<i>Ampelisca cristata</i>	32	32		64
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>	1216	128		368
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Ericthonius brasiliensis</i>				
<i>Listriella goleta</i>	80	112		48
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida			16	
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>				
Copepoda-Harpacticoida				
Cumacea			32	
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.	80	80		32
<i>Oxyurostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	64			
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>		112	64	48
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B8

6 Jan
197810 Apr
197810 Jul
197813 Oct
1978

ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.*Upogebia* sp.

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

Ostracoda

Cylindroleberdinae

Euphilomedes carcharodonta 128*Philomedes* sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp. 64

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

144

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B8

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides* 32
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata* 16
Virgularia nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.*Pachycerianthus* sp.

Hydrozoa - Hydroida

*Bimeria robusta**Corymorpha aurata**Obelia dichotoma*

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?*occidentalis**Amphiodia urtica**Amphiodia* sp. (juv.) 16

ECHIURA

Listriolobus pelocies

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

16

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

*Acteocina culcitella**Acteocina harpa**Aglaia ocelligera*

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B8

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>		16	16	
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Riotaxis punctocaelatus</i>				
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>			112	
<i>Volvulella panamica</i>		48		
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.		16		
<i>Turbonilla</i> sp.				
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepidatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>			128	
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>	32	16		
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>	80	32	160	96
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)				
<i>Cardiidae</i>	16			
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>		16		
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arotica</i>				
Kelliidae				
<i>?Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "	16			
Lucinidae				
<i>Lucina nuttalli</i>				
<i>Parvilucina tenuisculpta</i>	48		48	48
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B8

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus mutalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>	48			32
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>			16	
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.	16			
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>		32	16	16
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>	80	16		
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)	16			
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B8

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>	32	16	16	32
<i>Tellina</i> sp. (juv.)	16			
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Azinopsida serricata</i>				
<i>Thyasira flexuosa</i>		16	16	16
Veneridae				
<i>Compsomyax subdiaphana</i>		32		
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)		32	16	
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>			16	
NEMERTEA	240	16	192	144
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.			16	
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera		32		

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphiteis scaphobranchiata</i>		32	16	32
<i>Melinna oculata</i>		16		16
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>	48			32
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	96			
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)		1584	3072	2544
<i>Notomastus tenuis</i>	16		16	48
Chaetopteridae				
<i>Spiochaetopterus costarum</i>	16			48
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	16	192		
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	416	864	1088	240
Cossuridae				
<i>Cossura candida</i>	128	1280	4160	2192
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>	64	64	16	160
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>		32		
<i>Glycera capitata</i>		48		
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rourii</i>	16			
<i>Glycera</i> sp. (juv.)	16			
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				16
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	32	96	272	160
<i>Gyptis brunnea</i>			64	
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	80	144	80	208
Magelonidae				
<i>Magelona pacifica</i>	96			
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>		112		64
<i>Asychis</i> sp.				
<i>Ariothella</i> sp.			16	
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	48	384	96	560
<i>Nephtys ferruginea</i>	16			
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>		80	64	32
<i>Nereis</i> sp. (juv.)	32			
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Omaphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>	48	432	192	400
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>			112	
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	32	304	336	704
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>		16	16	32
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>		32		
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Ancistrosyllis hamata</i>				16
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	96	96	976	576
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus</i> sp. (branchiate)			32	
Polynoidae				
<i>Halosydna johnsoni</i>		80		
<i>Harmothoe imbricata</i>				
<i>Harmothoe priops</i>		32		
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>		16		
<i>Chone veleronis</i>				
<i>Chone</i> sp.				
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>				
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelle uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.		32		
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>		80	64	32
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)		80		48
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)	16			
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>	16			
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>		112	1008	224
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>				32
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)		112		64
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>			32	
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>		16		
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fessor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				64
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>	16			32
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	144	240	32	112
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea			144	
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>	16	16		48
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>	48	48		48
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida				
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>			16	
Copepoda-Harpacticoida				
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A		128		
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaisia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	128			
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>		16	608	32
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Decapoda (cont.)				
Brachyura (cont.)				
Pinnotheridae (cont.)				
<i>Pinnixa tubicola</i>				
<i>Pinnixa</i> sp.				
<i>Scleroplax granulata</i>		48		64
Caridea				
Alpheidae				
<i>Alpheus californiensis</i>				
<i>Betaeus ensenadensis</i>				
<i>Betaeus harrimani</i>				
<i>Betaeus ?longidactylus</i>				
<i>Betaeus</i> sp.				
Crangonidae				
<i>Crangon ?nigromaculata</i>				
Hippolytidae				
<i>Heptacarpus</i> sp.				
Macrura				
Callinassidae				
<i>Callinassa</i> sp.	128	32	320	64
<i>Upogebia</i> sp.				
Isopoda				
<i>Gnathia crenulatifrons</i>		16		16
<i>Gnathia</i> sp.				
<i>Munna</i> sp.				
<i>Serolis carinata</i>		16		
<i>Serolis</i> sp.				
Mysidacea				
Ostracoda				
Cylindroleberdinae			48	
<i>Euphilomedes carcharodonta</i>		16		
<i>Philomedes</i> sp.				
<i>Rutiderma rostrata</i>				
<i>Sarsiella</i> sp.				
<i>Scleroconcha</i> sp.				
Tanaidacea				
<i>Leptochelia</i> sp.				
Thoracica (barnacle)				
<i>Balanus tintinnabulum californicus</i>				
<i>Balanus</i> sp.				
ARTHROPODA PYCNOGONIDA				
<i>Anoplodactylus erectus</i>				
<i>Callipallene californiensis</i>				
ASCHELMINTHES				
Nematoda				
		64		32
BRACHIOPODA				
<i>Glottidia albida</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

,STATION B9

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

16

16

Edwardsia nr. *sipunculoides**Isoedwardsia* sp. A

Pennatulacea

16

*?Stylatula elongata**Virgularia* nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.*Pachycerianthus* sp.

Hydrozoa - Hydroida

*Bimeria robusta**Corymorpha aurata*

160

Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

64

*Amphiodia ?occidentalis**Amphiodia urtica**Amphiodia* sp. (juv.)

16

ECHIURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

16

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

32

*Acteocina culcitella**Acteocina harpa**Aglaja ocelligera*

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.		16		
<i>Cylichna diegensis</i>	16	192		128
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>			16	16
<i>Sulcoretusa</i> sp.		16		32
<i>Volvulella ?cylindrica</i>			144	
<i>Volvulella panamica</i>		48		32
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Turbonilla</i> sp.				
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.			64	
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i> (= <i>Crepidatella lingulata</i>)				
<i>Crepidula</i> sp.	32			
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>			144	
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>	64			
<i>Nassarius perpinguis</i>				64
Olividae				
<i>Olivella baetica</i>		64	16	80
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>				80
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				16
Leptonidae				
" <i>Lepton meroeum</i> "	16		48	
Lucinidae				
<i>Lucina nuttalli</i>				
<i>Parvilucina tenuisculpta</i> (= <i>Parvilucina</i> sp.)	32	32	64	336

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>		16		
<i>Mysella pedroana</i>			16	
<i>Mysella</i> sp.				32
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.			32	16
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>				32
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>	16			
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>	16			
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>	48	32		16
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)			16	32
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>		224	16	16
<i>Tellina</i> sp. (juv.)		16		
Thraciidae				
<i>Thracia curta</i>		128	16	128
Thasiridae				
<i>Azinopsida serricata</i>				64
<i>Thyasira flexuosa</i>	16	32	32	
Veneridae				
<i>Compsomyax subdiaphana</i>				
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)	16	16		64
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>			32	
NEMERTEA	96	224	320	224
PHORONIDA		32		
<i>Phoronis pallida</i>			16	16
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				16
<i>Amphicteis scaphobranchiata</i>	16		16	16
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
<i>?Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	912	1872	3072	880
<i>Notomastus tenuis</i>	16	16	16	
Chaetopteridae				
<i>Spirochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	192	80		144
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	2048	1104	1088	1440
Cossuridae				
<i>Cossura candida</i>	5168	3328	4160	1056
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>		160		16
<i>Marphysa disjuncta</i>	64		16	16
Flabelligeridae				
<i>Pherusa capulata</i>	16			80
Glyceridae				
<i>Glycera americana</i>		16		16
<i>Glycera capitata</i>		16		
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Gonioididae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	64	304	272	48
<i>Gyptis brunnea</i>		64	64	
<i>Ophiidromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	48	128	80	80
Magelonidae				
<i>Magelona pacifica</i>	16			
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>	48	16		
<i>Asychis</i> sp.				16
<i>Axiiothella</i> sp.			16	64
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	384	176	96	16
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	64	96	64	16
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>		16		
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Omaphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>	320	128	192	80
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>	32			32
<i>Acesta cernutii</i>				
<i>Acesta horikoshii</i>			112	16
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	208	336	336	
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>		16	16	32
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	352	320	976	160
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>	16	48		
<i>Poecilochaetus</i> sp. (branchiate)			32	
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>	16	16		
<i>Harmothoe priops</i>	16	16		64
<i>Harmothoe scriptoria</i>				16
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.				
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>				
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>		32		
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelia uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	96	32	64	
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	48	16		48
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	416	800	1008	224
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>				16
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)				
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>	16	16	32	
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>				
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>		16		
Syllidae				
<i>Brania</i> sp.		16		
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>		16		
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amazilia occidentalis</i>		16		880
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista ?disjuncta</i>	32			
<i>Pista fasciata</i>		16		80
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	240	288	32	48
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	128	48	144	208
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida	48	16		
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>			16	
Copepoda-Harpacticoida				
Cumacea				64
Bodotriidae				
<i>Cyclaspis</i> sp.		16		
Diastylidae				
<i>Diastylis</i> sp.	16			
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	128			
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>		112	608	144
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

144

64

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Cragonidae

Cragon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macura

Callianassidae

Callianassa sp.

112

144

320

112

Upogebia sp.

Isopoda

16

112

*Gnathia crenulatifrons**Gnathia* sp.*Muna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

Ostracoda

64

48

112

Cylindroleberdinae

*Euphilomedes carcharodonta**Philomedes* sp.

16

*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diademene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reinswardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

32

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

160

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

224

192

64

48

ECHIURA

Listriolobus pelodes

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea
Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

48

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>		16		
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>	16	16	16	
<i>Sulcoretusa</i> sp.		16		
<i>Volvulella ?cylindrica</i>			144	
<i>Volvulella panamica</i>		80		32
<i>Volvulella</i> sp.	80			
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Turbonilla</i> sp.				
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.			64	
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>			144	32
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>	48			
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>	16		16	
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>				16
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "	48	16	48	
Lucinidae				
<i>Lucina nuttalli</i>				
<i>Parvilucina tenuisculpta</i>	48	256	64	16
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>	16	112	16	32
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>		16		
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.	48		32	
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>	32	64		32
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>	32			
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)			16	
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>			16	
<i>Tellina</i> sp. (juv.)				32
Thraciidae				
<i>Thracia curta</i>	16	240	16	
Thasiridae				
<i>Axinopsida serricata</i>		16		
<i>Thyasira flexuosa</i>	16		32	
Veneridae				
<i>Compsomyax subdiaphana</i>	16			
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>		16	32	
NEMERTEA	304	304	320	48
PHORONIDA				
<i>Phoronis pallida</i>			16	
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B11

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				16
<i>Amphiteis scaphobranchiata</i>	32			32
<i>Melinna oculata</i>				32
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>			16	
Capitellidae				
<i>?Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	528	288	2736	4464
<i>Notomastus tenuis</i>	16	48	32	16
Chaetopteridae				
<i>Spiochaetopterus costarum</i>		16		16
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>		32		16
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriiformia luxuriosa</i>				
<i>Tharyx</i> sp.	1504	352	944	1488
Cossuridae				
<i>Cossura candida</i>	1584	752	3536	5296
Dorvilleidae				
"branchiate dorvilleid"		16	16	
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>	16			
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>		16		32
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>	16			
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Gonioididae				
<i>Glycinde armigera</i>	144			

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B11

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)			16	
Hesionidae				
<i>Gyptis brevipalpa</i>		32	208	144
<i>Gyptis brunnea</i>	32		64	
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	224	32	32	64
Magelonidae				
<i>Magelona pacifica</i>	32	32	16	
<i>Magelona pitelkai</i>				48
Maldanidae				
<i>Asychis disparidentata</i>	96	16	32	48
<i>Asychis</i> sp.				16
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	240	16	368	416
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	128	64	48	48
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbinilidae				
<i>Haploscoloplos elongatus</i>	432	48	112	192
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				64
<i>Acesta cerruti</i>				
<i>Acesta horikoshii</i>				32
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>			48	
<i>Tauberia oculata</i>	112	80	64	128
(=Paraonis gracilis oculata)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B11

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>		16	32	
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatae</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Ancistrosyllis hamata</i>	16			
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	800	448	384	416
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>	32			16
<i>Poecilochaetus</i> sp. (branchiate)			16	
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>	16	16	16	
<i>Harmothoe priops</i>	16	16		16
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.		16		
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.				
<i>Euchone incolor</i>			16	16
<i>Eucone limnicola</i>				
<i>Magelomma pigmentum</i>				
<i>Miricola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>	16			
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelle uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Carasiella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B11

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	48	16	32	48
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	16	16	16	16
<i>Polydora biocapitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	560	1376	576	608
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>				16
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)				
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>			16	
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	16			
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>			16	96
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>		144	32	32
Trichobranchidae				
<i>Terebellides stroemi</i>	32			32
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B11

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	144	144	48	80
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida	48	48	16	
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>		32		
Copepoda-Harpacticoida				
Cumacea		16	32	96
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.	16			
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura	16			
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae	16			
<i>Pyromacia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>		160	64	
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B11

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Decapoda (cont.)				
Brachyura (cont.)				
Pinnotheridae (cont.)	16			
<i>Pinnixa tubicola</i>				
<i>Pinnixa</i> sp.				32
<i>Scleroplax granulata</i>				
Caridea				
Alpheidae				
<i>Alpheus californiensis</i>				
<i>Betaeus ensenadensis</i>				
<i>Betaeus harrimani</i>				
<i>Betaeus ?longidactylus</i>				
<i>Betaeus</i> sp.				
Crangonidae				
<i>Crangon ?nigromaculata</i>				
Hippolytidae				
<i>Heptacarpus</i> sp.				
Macrura				
Callinassidae				
<i>Callinassa</i> sp.	128	416	96	80
<i>Upogebia</i> sp.				
Isopoda				
<i>Gnathia crenulatifrons</i>	48		32	
<i>Gnathia</i> sp.	32			
<i>Munna</i> sp.				
<i>Serolis carinata</i>				
<i>Serolis</i> sp.				
Mysidacea				
Ostracoda				
Cylindroleberdinae		16	64	208
<i>Euphilomedes carcharodonta</i>	80			
<i>Philomedes</i> sp.	16			
<i>Rutiderma rostrata</i>				
<i>Sarsiella</i> sp.				
<i>Scleroconcha</i> sp.				
Tanaidacea				
<i>Leptochelia</i> sp.			16	
Thoracica (barnacle)				
<i>Balanus tintinnabulum californicus</i>				
<i>Balanus</i> sp.				
ARTHROPODA PYCNOGONIDA				
<i>Anoplodactylus erectus</i>				
<i>Callipallene californiensis</i>				
ASCHELMINTHES				
Nematoda				
BRACHIOPODA				
<i>Glottidia albida</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B11

6 Jan 10 Apr 10 Jul 13 Oct
1978 1978 1978 1978

BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

32

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reinsardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

16

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

144

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

16

ECHIURA

Listriolobus pelocles

48

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

16

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B11

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>			16	
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaris punctocaelatus</i>				32
<i>Sulcoretusa</i> sp.	160	32		16
<i>Volvulella ?cylindrica</i>			112	
<i>Volvulella panamica</i>		112	80	
<i>Volvulella</i> sp.	16			
Pyramidellida				
<i>Odostomia</i> sp.				32
<i>Turbonilla</i> sp.	32			
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.	16			
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>	144	64	128	144
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>				
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>	256	32	160	32
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)				
<i>Cardiidae</i>	16			16
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>				
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
<i>?Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "	32	48		16
Lucinidae				
<i>Lucina nuttalli</i>				32
<i>Parvilucina tenuisculpta</i>	16		48	32
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION B11

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>	16			48
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>	96		16	16
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.	32			16
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				16
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>			16	64
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>		16		
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>	16			
<i>Macoma</i> sp. (juv.)				
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION B11

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>			16	
<i>Tellina</i> sp. (juv.)				
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>			16	16
Veneridae				
<i>Compsomyax subdiaphana</i>				
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)	32		16	
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>	16		16	
NEMERTEA	224	80	192	336
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.			16	
<i>Phoronopsis</i> sp.	16			
PLATYHELMINTHES				
Polycladia		32		
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	16	112	16	
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>		16	32	
<i>Amphicteis scaphobranchiata</i>				16
<i>Melima oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	208	3136	2800	224
<i>Notomastus tenuis</i>	32	80	64	
Chaetopteridae				
<i>Spiochaetopterus costarum</i>	16			
Cirratulidae				
<i>Caulleriella alata</i>				32
<i>Chaetozone corona</i>	192	176	64	96
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>	16			
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	2000	2192	2320	288
Cossuridae				
<i>Cossura candida</i>	2672	8784	4016	26,464
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>		16	16	
Eunicidae				
<i>Marphysa belli oculata</i>			16	
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>		48		16
<i>Glycera capitata</i>		16		
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Gonioididae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>		208	128	16
<i>Gyptis brunnea</i>		16		
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	64	64	80	208
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	272	176	544	96
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	64	64	112	
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				32
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>			16	112
Orbiniidae				
<i>Haploscoloplos elongatus</i>	32	192	96	32
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>				32
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>		1040	640	112
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C1

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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POLYCHAETA (cont.)

Pectinariidae

Pectinaria californiensis

Phyllodoceidae

Anaitides nr. *papillosa**Eteone californica**Eteone dilatae*

16

Eteone sp.*Eumida bifoliata**Eumida sanguinea**Phyllodoce* sp.

16

16

Pilargiidae

*Ancistrosyllis hamata**Pilargis berkeleyi**Sigambra tentaculata*

48

176

128

80

Poecilochaetidae

*Poecilochaetus johnsoni**Poecilochaetus* sp. (branchiate)

Polynoidae

*Halosydna johnsoni**Harmothoe imbricata**Harmothoe priops**Harmothoe scriptoria**Harmothoe* sp.

16

Polyodontidae

*Polyodontes ?panamensis**Polyodontes* sp.

Sabellariidae

*Phragmatopoma californica**Sabellaria cementarium*

Sabellidae

16

*Chone gracilis**Chone veleronis**Chone* sp.

16

*Euchone incolor**Eucone limnicola*

16

240

16

*Magelomma pigmentum**Mixicola infundibulum*

Scalibregmidae

Scalibregma inflatum

Serpulidae

Eupomatus gracilis

Sigalionidae

*Pholoe glabra**Sthenelais verruculosa**Sthenelanella uniformis*

Sphaerodoridae

Sphaerodorum sphaerulifer

Spionidae

*Boccardia hamata**Boccardia* sp.*Caraziella califia*

("Pseudopolydora n.gen.")

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	32	16		144
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	16	16	16	
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	112	976	304	160
<i>Prionospio heterobranchia</i>		16		32
<i>Prionospio pygmaeus</i>	32	32	16	
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)	32			
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>			176	
<i>Scolelepis acuta</i>				32
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>			16	
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>		16		
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>	16			
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)	16		16	
<i>Streblosoma crassibranchia</i>	16		32	
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>			16	32
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	32	48		16
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Eriothonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida		16		
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>		192		
Copepoda-Harpacticoida				
Cumacea				80
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.	16			
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>		64	80	
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>			16	
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaisia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	64		64	
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Decapoda (cont.)				
Brachyura (cont.)				
Pinnotheridae (cont.)				
<i>Pinnixa tubicola</i>				
<i>Pinnixa</i> sp.				
<i>Scleroplax granulata</i>		80		
Caridea				
Alpheidae				
<i>Alpheus californiensis</i>				
<i>Betaeus ensenadensis</i>				
<i>Betaeus harrimani</i>				
<i>Betaeus ?longidactylus</i>				
<i>Betaeus</i> sp.				
Cragonidae				
<i>Cragon ?nigromaculata</i>				
Hippolytidae				
<i>Heptacarpus</i> sp.				
Macura				
Callianassidae				
<i>Callianassa</i> sp.	48	224	80	16
<i>Upogebia</i> sp.				
Isopoda				
<i>Gnathia crenulatifrons</i>				
<i>Gnathia</i> sp.				
<i>Munna</i> sp.				
<i>Serolis carinata</i>				
<i>Serolis</i> sp.				
Mysidacea				
Ostracoda				
Cylindroleberdinae		32		
<i>Euphilomedes carcharodonta</i>	16	64		
<i>Philomedes</i> sp.		16		
<i>Rutiderma rostrata</i>				
<i>Sarsiella</i> sp.				
<i>Scleroconcha</i> sp.				
Tanaidacea				
<i>Leptochelia</i> sp.				
Thoracica (barnacle)				
<i>Balanus tintinnabulum californicus</i>				
<i>Balanus</i> sp.				
ARTHROPODA PYCNOGONIDA				
<i>Anoplodactylus erectus</i>			16	
<i>Callipallene californiensis</i>				
ASCHELMINTHES				
Nematoda	128	16		
BRACHIOPODA				
<i>Glottidia albida</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C1

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

16

16

ECHIURA

Listriolobus pelocles

16

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>				
<i>Gastropteron pacificum</i>	16			
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>				
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>				
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.	16			
<i>Turbonilla</i> sp.	16			
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>		128		
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>				
<i>Nassarius perpunguis</i>				
Olividae				
<i>Olivella baetica</i>				
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)		32	64	48
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>		112		48
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "	16	16		
Lucinidae				
<i>Lucina nuttalli</i>				32
<i>Parvilucina tenuisculpta</i>			16	128
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Macridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>	32	48	16	32
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>		128		
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				48
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>			16	
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
<i>?Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>	16	32	176	576
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				32
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>			32	
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				16
<i>Macoma acolasta</i>				
<i>Macoma carlottensis</i>				16
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>	32	16		
<i>Macoma</i> sp. (juv.)				96
<i>Tellina carpenteri</i>				
<i>Tellina ida</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				16
<i>Tellina</i> sp. (juv.)		16	64	48
Thraciidae				
<i>Thracia curta</i>				16
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>				16
Veneridae				
<i>Compeomyax subdiaphana</i>				
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				64
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)			16	
Scaphopoda		16		
<i>Cadulus fusiformis</i>				
NEMERTEA		192	208	
PHORONIDA	16			
<i>Phoronis pallida</i>		16		
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	3040	4912	1552	1936
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>	16		16	
<i>Amphicteis scaphobranchiata</i>	32			
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	256	272	16	384
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	5504	4176	3440	7568
<i>Notomastus tenuis</i>	32	32	64	16
Chaetopteridae				
<i>Spiochaetopterus costarum</i>	16		32	
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	400	880	480	272
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriiformia luxuriosa</i>				
<i>Tharyx</i> sp.	2400	1424	2960	1168
Cossuridae				
<i>Cossura candida</i>	5952	9904	4208	24,752
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>		48		
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>			16	
<i>Glycera capitata</i>		16		
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Blycera rourii</i>				
<i>Glycera</i> sp. (juv.)				
Gonioididae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>		64	64	32
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	64	208	144	160
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaothamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	160	176	64	160
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	320	144		48
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>		16		32
Orbiniidae				
<i>Haploscoloplos elongatus</i>	192	112		144
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	1184	1232	1728	560
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>		16		16
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>			32	
<i>Eteone californica</i>				
<i>Eteone dilatata</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.	16		32	
Pilargiidae				
<i>Ancistrosyllis hamata</i>	16			
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	64	112	176	240
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>				
<i>Harmothoe priops</i>		16	16	
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				96
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.	32		16	
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>	112	528	4224	352
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				112
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelia uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	16			16
<i>Paraprionospio pinnata</i> (= <i>Prionospio vinnata</i>)		16		
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	416	704	352	2864
<i>Prionospio heterobranchia</i>				32
<i>Prionospio pygmaeus</i>	32			
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)		64		
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>		48	32	
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>		16		112
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.			16	
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>			16	
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista ?disjuncta</i>	16			
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>		272	400	
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				32
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea		16	32	16
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida	16	16		
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>		64	96	48
Copepoda-Harpacticoida	64			
Cumacea				96
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda	16			
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>		16		16
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaisia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>			32	
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Decapoda (cont.)				
Brachyura (cont.)				
Pinnotheridae (cont.)				
<i>Pinnixa tubicola</i>				
<i>Pinnixa</i> sp.				
<i>Scleroplax granulata</i>		16	432	
Caridea				
Alpheidae				
<i>Alpheus californiensis</i>				
<i>Betaeus ensenadensis</i>				
<i>Betaeus harrimani</i>			16	16
<i>Betaeus ?longidactylus</i>				
<i>Betaeus</i> sp.		16		
Crangonidae				
<i>Crangon ?nigromaculata</i>				
Hippolytidae				
<i>Heptacarpus</i> sp.				
Macrura				
Callinassidae				
<i>Callinassa</i> sp.	80	160	176	32
<i>Upogebia</i> sp.			32	16
Isopoda				
<i>Gnathia crenulatifrons</i>				
<i>Gnathia</i> sp.				
<i>Munna</i> sp.				
<i>Serolis carinata</i>				
<i>Serolis</i> sp.				
Mysidacea				
			16	
Ostracoda				
			16	
Cylindroleberdinae		16		16
<i>Euphilomedes carcharodonta</i>	32			
<i>Philomedes</i> sp.	16			
<i>Rutiderma rostrata</i>				
<i>Sarsiella</i> sp.				
<i>Scleroconcha</i> sp.				
Tanaidacea				
		32		
<i>Leptochelia</i> sp.				
Thoracica (barnacle)				
<i>Balanus tintinnabulum californicus</i>				48
<i>Balanus</i> sp.				
ARTHROPODA PYCNOGONIDA				
<i>Anoplodactylus erectus</i>				64
<i>Callipallene californiensis</i>				
ASCHELMINTHES				
Nematoda	32			16
BRACHIOPODA				
<i>Glottidia albida</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C2

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

16

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reinsardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

16

32

Amphiodia ?*occidentalis*
Amphiodia urtica
Amphiodia sp. (juv.)

ECHIURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea
Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

16

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>				
<i>Gastropteron pacificum</i>			16	
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>				
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>				
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Tarbovilla</i> sp.				
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				32
(= <i>Crepidatella lingulata</i>)				
<i>Crepidula</i> sp.				32
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>				16
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>				
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>				
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)	16	16	16	96
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>		16		
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "			16	
Lucinidae				
<i>Lucina nuttalli</i>				48
<i>Parvilucina tenuisculpta</i>	16			16
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct. 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>			16	
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>			16	
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>			32	16
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				16
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				16
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>	112	64	112	736
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>	16			
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>		16	32	48
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>	32			
<i>Macoma carlottensis</i>		16		
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>	16			
<i>Macoma</i> sp. (juv.)				80
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)	16			96
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Axinopsida serricata</i>	16			
<i>Thyasira flexuosa</i>				
Veneridae				
<i>Compsomyax subdiaphana</i>				
<i>Protothaca staminea</i>	16			
<i>Protothaca</i> sp. (juv.)				32
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	208	96	144	48
PHORONIDA	48			
<i>Phoronis pallida</i>			16	
<i>Phoronis</i> sp.			16	
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	32		16	48
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				16
<i>Amphicteis scaphobranchiata</i>	16	16		
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
<i>?Anotomastus gordioides</i>				
<i>Capitella capitata</i>			16	
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	3728	1744	1072	2720
<i>Notomastus tenuis</i>				
Chaetopteridae				
<i>Spiochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	32	720	80	240
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriiformia luxuriosa</i>				
<i>Tharyx</i> sp.	864	1552	592	720
Cossuridae				
<i>Cossura candida</i>	3456	2592	2032	1808
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>		16	16	
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)	16			
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>		16	48	96
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.		16		32
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Ariothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>		256	96	112
<i>Nephtys ferruginea</i>				
Nereidae				
" <i>epitokus nereid</i> "				48
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	80	80	48	48
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>	32	400	32	64
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>				32
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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POLYCHAETA (cont.)

Pectinariidae

Pectinaria californiensis

Phyllodocidae

Anaitides nr. *papillosa**Eteone californica**Eteone dilatata**Eteone* sp.*Eumida bifoliata**Eumida sanguinea**Phyllodoce* sp.

Pilargiidae

*Ancistrosyllis hamata**Pilargis berkeleyi**Sigambra tentaculata*

256

208

176

144

Poecilochaetidae

Poecilochaetus johnsoni

32

Poecilochaetus sp. (branchiate)

Polynoidae

*Halosydna johnsoni**Harmothoe imbricata**Harmothoe priops**Harmothoe scriptoria**Harmothoe* sp.

Polyodontidae

*Polyodontes ?panamensis**Polyodontes* sp.

Sabellariidae

*Phragmatopoma californica**Sabellaria cementarium*

Sabellidae

*Chone gracilis**Chone veleronis**Chone* sp.*Euchone incolor**Eucone limnicola*

112

192

1008

1808

*Magelomma pigmentum**Mixicola infundibulum*

Scalibregmidae

Scalibregma inflatum

Serpulidae

Eupomatus gracilis

Sigalionidae

*Pholoe glabra**Sthenelais verruculosa**Sthenelanelle uniformis*

Sphaerodoridae

Sphaerodorum sphaerulifer

Spionidae

*Boccardia hamata**Boccardia* sp.*Caraziella califia*

("Pseudopolydora n.gen.")

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>				
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)				
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				80
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	560	16	384	768
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>	32			16
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)				
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				112
<i>Scolelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>				16
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.	16			
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	80	352	16	96
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	32	16	64	48
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphorus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida				
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>			256	192
Copepoda-Harpacticoida	48			
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Ocyurostylus pacifica</i>				
Lampropiidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda		16		
decapod zoea larvae				
Brachyura				
Canceridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	288			
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Decapoda (cont.)				
Brachyura (cont.)				
Pinnotheridae (cont.)				
<i>Pinnixa tubicola</i>				
<i>Pinnixa</i> sp.				
<i>Scleroplax granulata</i>		16	112	
Caridea				
Alpheidae				
<i>Alpheus californiensis</i>				
<i>Betaeus ensenadensis</i>				
<i>Betaeus harrimani</i>				
<i>Betaeus ?longidactylus</i>				
<i>Betaeus</i> sp.	16			
Crangonidae				
<i>Crangon ?nigromaculata</i>				
Hippolytidae				
<i>Heptacarpus</i> sp.				
Macrura				
Callinassidae				
<i>Callinassa</i> sp.	96	144	144	80
<i>Upogebia</i> sp.	32		32	
Isopoda				
<i>Gnathia crenulatifrons</i>				
<i>Gnathia</i> sp.				
<i>Munna</i> sp.				
<i>Serolis carinata</i>				
<i>Serolis</i> sp.	16			
Mysidacea				
Ostracoda				
Cylindroleberdinae		16		16
<i>Euphilomedes carcharodonta</i>				
<i>Philomedes</i> sp.				
<i>Rutiderma rostrata</i>				
<i>Sarsiella</i> sp.				
<i>Scleroconcha</i> sp.				
Tanaidacea				
<i>Leptochelia</i> sp.				
Thoracica (barnacle)				
<i>Balanus tintinnabulum californicus</i>				
<i>Balanus</i> sp.				
ARTHROPODA PYCNOGONIDA				
<i>Anoplodactylus erectus</i>				
<i>Callipallene californiensis</i>				
ASCHELMINTHES				
Nematoda	16			
BRACHIOPODA				
<i>Glottidia albida</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C3

6 Jan
1978

10 Apr
1978

10 Jul
1978

13 Oct
1978

BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.
Edwardsiidae
Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reinswardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

ECHIURA

Listriolobus pelodes

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea
Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C3

6 Jan
1978

10 Apr
1978

10 Jul
1978

13 Oct
1978

MOLLUSCA (cont.)

Cephalaspidea (cont.)

Aglaja sp.
Cylichna diegensis
Gastropteron pacificum
Retusa sp.
Rictaxis punctocaelatus
Sulcoretusa sp.
Volvulella ?cylindrica
Volvulella panamica
Volvulella sp.

Pyramidellida

Odostomia sp.
Turbonilla sp.

Prosobranchia

Mesogastropoda

Caecidae

Caecum sp.
Fartulum sp.

Calyptraeidae

Crepidula dorsata
(=*Crepipatella lingulata*)
Crepidula sp.

Naticidae

Neverita reclusiana

Vitrinellidae

Vitrinella oldroydi

Neogastropoda

Nassariidae

Nassarius fossatus
Nassarius mendicus
Nassarius perpinguis

Olividae

Olivella baetica

Turridae

Kurtziella plumbea

Pelecypoda (juv.)

Cardiidae

Laevicardium substriatum

Cooperellidae

Cooperella subdiaphana

Corbulidae

Corbula luteola
Corbula sp.

Hiatellidae

Hiatella arctica

Kelliidae

?*Bornia* sp.

Leptonidae

"*Lepton meroeum*"

Lucinidae

Lucina nuttalli
Parvilucina tenuisculpta
(=*Parvilucina* sp.)

16

48

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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MOLLUSCA (cont.)

Pelecypoda (cont.)

Lyonsiidae

Lyonsia californica

Mactridae

*Mactra californica**Spisula* sp.*Tresus nuttalli*

Montacutidae

*Mysella grippi**Mysella pedroana**Mysella* sp.

Myidae

Cryptomya californica

112

16

16

Platydon cancellatus

Mytilidae

*Crenella divaricata**Crenella* sp.*Magacrenella columbiana*

Nuculanidae

Nuculana sp.

Pandoridae

Pandora sp.

Pectinidae

Leptopecten latiauratus

Periplomatidae

Periploma planiusculum

Petricolidae

Petricola sp.

Psammobiidae

?Gari californica

Semelidae

*Cumingia californica**Theora lubrica*

32

160

128

1152

Solecurtidae

*Tagelus californianus**Tagelus subteres*

Solenidae

*Ensis myrae**Siliqua lucida**Solen rosaceus**Solen sicarius**Solen* sp.

Tellinidae

*Leporimeta obesa**Macoma acolasta**Macoma carlottensis**Macoma indentata**Macoma nasuta**Macoma* sp. (juv.)

16

16

*Tellina carpenteri**Tellina idae*

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)				16
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>				
Veneridae				
<i>Compsomyax subdiaphana</i>			16	
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)			48	16
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	144	96		64
PHORONIDA				
<i>Phoronis pallida</i>			16	
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA		144	80	
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>	16			16
<i>Amphicteis scaphobranchiata</i>	16			
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	16			16
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	1312	1808	2128	2080
<i>Notomastus tenuis</i>				32
Chaetopteridae				
<i>Spiochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>			16	
<i>Chaetozone corona</i>	320	144	528	384
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>			48	
<i>Cirriformia luxuriosa</i>				16
<i>Tharyx</i> sp.	496	416	2176	1200
Cossuridae				
<i>Cossura candida</i>		480	1328	1728
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>	16	16	32	
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)	32			
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>		48		
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	32	16		16
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	16	16	80	48
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				48
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>			32	
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Omuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>	80	64	16	16
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutti</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>				48
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>				
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>		16		
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.	32	16		
Pilargiidae				
<i>Anoistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				16
<i>Sigambra tentaculata</i>	96	80	80	336
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>	16			16
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>			16	
<i>Harmothoe imbricata</i>				16
<i>Harmothoe priops</i>				
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.		32		
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>	160	816	4096	592
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelia uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>			16	
<i>Boccardia</i> sp.	16			
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	16			
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)			32	
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				16
<i>Prionospio cirrifera</i>	16	32	16	80
<i>Prionospio heterobranchia</i>		48	16	
<i>Prionospio pygmaeus</i>				
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)				
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolecopsis acuta</i>			16	
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>		16	32	64
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	64		16	32
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	32		144	
<i>Ampelisca cristata</i>				16
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				48
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Eriothonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida		16		
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>				512
Copepoda-Harpacticoida				
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda		32		
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	16	16		
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Decapoda (cont.)				
Brachyura (cont.)				
Pinnotheridae (cont.)				
<i>Pinnixa tubicola</i>				
<i>Pinnixa</i> sp.				
<i>Scleroplax granulata</i>			48	32
Caridea				
Alpheidae				
<i>Alpheus californiensis</i>				
<i>Betaeus ensenadensis</i>				
<i>Betaeus harrimani</i>				16
<i>Betaeus ?longidactylus</i>				
<i>Betaeus</i> sp.		16	16	
Crangonidae				
<i>Crangon ?nigromaculata</i>				
Hippolytidae				
<i>Heptacarpus</i> sp.				
Macrura				
Callinassidae				
<i>Callinassa</i> sp.	64	224	48	80
<i>Upogebia</i> sp.	48		16	32
Isopoda				
<i>Gnathia crenulatifrons</i>				
<i>Gnathia</i> sp.				
<i>Munna</i> sp.				
<i>Serolis carinata</i>				
<i>Serolis</i> sp.				
Mysidacea				
Ostracoda				
Cylindroleberdinae	16	32		
<i>Euphilomedes carcharodonta</i>				
<i>Philomedes</i> sp.				
<i>Rutiderma rostrata</i>		16		
<i>Sarsiella</i> sp.				
<i>Scleroconcha</i> sp.				
Tanaidacea				
<i>Leptochelia</i> sp.				
Thoracica (barnacle)				
<i>Balanus tintinnabulum californicus</i>				
<i>Balanus</i> sp.				
ARTHROPODA PYCNOGONIDA				
<i>Anoplodactylus erectus</i>		16	16	
<i>Callipallene californiensis</i>				
ASCHELMINTHES				
Nematoda				
BRACHIOPODA				
<i>Glottidia albida</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C4

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)

Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides**Isoedwardsia* sp. A

Pennatulacea

? *Stylatula elongata**Virgularia* nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.*Pachycerianthus* sp.

Hydrozoa - Hydroida

*Bimeria robusta**Corymorpha curata**Obelia dichotoma*

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ? *occidentalis**Amphiodia urtica**Amphiodia* sp. (juv.)

ECHIURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

*Acteocina culcitella**Acteocina harpa**Aglaia ocelligera*

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C4

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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MOLLUSCA (cont.)

Cephalaspidea (cont.)

Aglaja sp.
Cylichna diegensis
Gastropteron pacificum
Retusa sp.
Rictaxis punctocaelatus
Sulcoretusa sp.
Volvulella ?cylindrica
Volvulella panamica
Volvulella sp.

Pyramidellida

Odostomia sp.
Turbonilla sp.

Prosobranchia

Mesogastropoda

Caecidae
Caecum sp.
Fartulum sp.
Calyptraeidae
Crepidula dorsata
(=*Crepipatella lingulata*)
Crepidula sp.

Naticidae

Neverita reclusiana

Vitrinellidae

Vitrinella oldroydi

64

Neogastropoda

Nassariidae

Nassarius fossatus
Nassarius mendicus
Nassarius perpunguis

Olividae

Olivella baetica

16

Turridae

Kurtziella plumbea

Pelecypoda (juv.)

Cardiidae

Laevicardium substriatum

16

Cooperellidae

Cooperella subdiaphana

Corbulidae

Corbula luteola

Corbula sp.

Hiatellidae

Hiatella arctica

Kelliidae

?*Bornia* sp.

Leptonidae

"*Lepton meroeum*"

32

Lucinidae

Lucina nuttalli

Parvilucina tenuisculpta

(=*Parvilucina* sp.)

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C4

6 Jan 10 Apr 10 Jul 13 Oct
1978 1978 1978 1978

MOLLUSCA (cont.)

Pelecypoda (cont.)

Lyonsiidae

Lyonsia californica

Mactridae

*Mactra californica**Spisula* sp.*Tresus nuttalli*

Montacutidae

*Mysella grippi**Mysella pedroana**Mysella* sp.

16

Myidae

Cryptomya californica

32

Platydon cancellatus

Mytilidae

*Crenella divaricata**Crenella* sp.*Magacrenella columbiana*

Nuculanidae

Nuculana sp.

Pandoridae

Pandora sp.

Pectinidae

Leptopecten latiauratus

Periplomatidae

Periploma planiusculum

Petricolidae

Petricola sp.

Psammobiidae

? *Gari californica*

Semelidae

Cumingia californica

32

Theora lubrica

112

96

Solecurtidae

*Tagelus californianus**Tagelus subteres*

Solenidae

*Ensis myrae**Siliqua lucida*

16

*Solen rosaceus**Solen sicarius**Solen* sp.

Tellinidae

*Leporimetis obesa**Macoma acolasta**Macoma carlottensis**Macoma indentata**Macoma nasuta**Macoma* sp. (juv.)*Tellina carpenteri**Tellina idae*

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C4

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)				
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Azinopsida serricata</i>				
<i>Thyasira flexuosa</i>				
Veneridae				
<i>Compsomyax subdiaphana</i>				
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)			16	16
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	96	96	256	
PHORONIDA				
<i>Phoronis pallida</i>		16		
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C5

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	528	1952	1024	1312
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>				
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	80	112	176	176
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	480	336	608	576
<i>Notomastus tenuis</i>				
Chaetopteridae				
<i>Spiochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	16			16
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>			16	
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	4640	144	16	80
Cossuridae				
<i>Cossura candida</i>	768	3616	1040	2368
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>		16		
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>				
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Gonioididae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

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POLYCHAETA (cont.)

Goniodidae (cont.)

Goniada brunnea
Goniada littorea
Goniada sp. (juv.)

Hesionidae

Gyptis brevipalpa
Gyptis brunnea
Ophiiodromus pugettensis

Lumbrineridae

Lumbrineris spp.

Magelonidae

Magelona pacifica
Magelona pitelkai

Maldanidae

Asychis disparidentata
Asychis sp.
Axiiothella sp.

Nephtyidae

Aglaothamus dicirris
Nephtys caecoides
Nephtys californiensis 16 48
Nephtys cornuta franciscana
Nephtys ferruginea

Nereidae

"*epitokus nereid*"
Neanthes arenaceodentata
Nereis procera
Nereis sp. (juv.)

Onuphidae

Diopatra ornata
Diopatra splendidissima
Diopatra tridentata
Diopatra sp. (juv.)
Nothria elegans
Nothria iridescens
Nothria sp.
Onuphis nebulosa

Opheliidae

Armandia bioculata

Orbiniidae

Haploscoloplos elongatus

Oweniidae

Owenia collaris

Paraonidae

Acesta catherinae
Acesta cerruti
Acesta horikoshii
Acesta sp.
Aricidea wassi
Tauberia oculata
(=*Paraonis gracilis oculata*)

16

HARBORS ENVIRONMENTAL PROJECTS
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POLYCHAETA (cont.)

Pectinariidae

Pectinaria californiensis

Phyllodocidae

Anaitides nr. *papillosa**Eteone californica**Eteone dilatae**Eteone* sp.*Eumida bifoliata**Eumida sanguinea**Phyllodoce* sp.

Pilargiidae

*Ancistrosyllis hamata**Pilargis berkeleyi**Sigambra tentaculata*

32

Poecilochaetidae

*Poecilochaetus johnsoni**Poecilochaetus* sp. (branchiate)

Polynoidae

*Halosydna johnsoni**Harmothoe imbricata**Harmothoe priops**Harmothoe scriptoria**Harmothoe* sp.

16

Polyodontidae

*Polyodontes ?panamensis**Polyodontes* sp.

Sabellariidae

*Phragmatopoma californica**Sabellaria cementarium*

Sabellidae

*Chone gracilis**Chone veleronis**Chone* sp.

32

*Euchone incolor**Eucone limnicola*

80

1760

944

560

*Magelomma pigmentum**Mixicola infundibulum*

Scalibregmidae

Scalibregma inflatum

Serpulidae

Eupomatus gracilis

Sigalionidae

*Pholoe glabra**Sthenelais verruculosa**Sthenelanelle uniformis*

Sphaerodoridae

Sphaerodorum sphaerulifer

Spionidae

*Boccardia hamata**Boccardia* sp.*Carasiella califia*

("Pseudopolydora n.gen.")

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

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POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>				
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	16		48	16
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>	256	64	32	
<i>Polydora limicola</i>				80
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>		32		64
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>				
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)	16			
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>	160			352
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>		32		16
<i>Streblospio benedicti</i>				
Sternaspididae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>				
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

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ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea				48
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida		16		
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>			240	128
Copepoda-Harpacticoida	16	16		
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

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ARTHROPODA CRUSTACEA (cont.)				
Decapoda (cont.)				
Brachyura (cont.)				
Pinnotheridae (cont.)				
<i>Pinnixa tubicola</i>				
<i>Pinnixa</i> sp.				
<i>Scleroplax granulata</i>			48	32
Caridea				
Alpheidae				
<i>Alpheus californiensis</i>	16			
<i>Betaeus ensenadensis</i>				
<i>Betaeus harrimani</i>				
<i>Betaeus ?longidactylus</i>				
<i>Betaeus</i> sp.				
Crangonidae				
<i>Crangon ?nigromaculata</i>				
Hippolytidae				
<i>Heptacarpus</i> sp.				
Macrura				
Callinassidae				
<i>Callinassa</i> sp.	80	208	96	80
<i>Upogebia</i> sp.			16	16
Isopoda				
<i>Gnathia crenulatifrons</i>				
<i>Gnathia</i> sp.				
<i>Murra</i> sp.				
<i>Serolis carinata</i>				
<i>Serolis</i> sp.				
Mysidacea				
Ostracoda				
Cylindroleberdinae				
<i>Euphilomedes carcharodonta</i>				
<i>Philomedes</i> sp.				
<i>Rutiderma rostrata</i>				
<i>Sarsiella</i> sp.				
<i>Scleroconcha</i> sp.				
Tanaidacea				
<i>Leptochelia</i> sp.				
Thoracica (barnacle)				
<i>Balanus tintinnabulum californicus</i>				
<i>Balanus</i> sp.				
ARTHROPODA PYCNOGONIDA				
<i>Anoplodactylus erectus</i>				
<i>Callipallene californiensis</i>				
ASCHELMINTHES				
Nematoda			368	64
BRACHIOPODA				
<i>Glottidia albida</i>				

HARBORS ENVIRONMENTAL PROJECTS
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys
 Gobiidae (larvae)
 Clevelandia ios
Urochordata
 Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa
 Actinaria
 Diadumene sp.
 Edwardsiidae
 Edwardsia nr. *sipunculoides*
 Isoedwardsia sp. A
 Pennatulacea
 ? *Stylatula elongata*
 Virgularia nr. *reinsardi*
 Ceriantharia
 Botrucnidifer sp.
 Pachycerianthus sp.
Hydrozoa - Hydroida
 Bimeria robusta
 Corymorpha aurata
 Obelia dichotoma

ECHINODERMATA

Holothuroidea
 Leptosynapta albicans
Ophiuroidea (juv.)
 Amphiodia ?occidentalis
 Amphiodia urtica
 Amphiodia sp. (juv.)

ECHIURA

Listriolobus peloides

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda
 Ophisthobranchia
 Cephalaspidea
 Acteocina culcitella
 Acteocina harpa
 Aglaja ocelligera

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MOLLUSCA (cont.)

Cephalaspidea (cont.)

Aglaja sp.
Cylichna diegensis
Gastropteron pacificum
Retusa sp.
Rictaxis punctocaelatus
Sulcoretusa sp.
Volvulella ?cylindrica
Volvulella panamica
Volvulella sp.

Pyramidellida

Odostomia sp.
Tarbovilla sp.

Prosobranchia

Mesogastropoda

Caecidae

Caecum sp.
Fartulum sp.

Calyptraeidae

Crepidula dorsata
 (= *Crepidatella lingulata*)
Crepidula sp.

Naticidae

Neverita reclusiana

Vitrinellidae

Vitrinella oldroydi

Neogastropoda

Nassariidae

Nassarius fossatus
Nassarius mendicus
Nassarius perpinguis

Olividae

Olivella baetica

Turridae

Kurtziella plumbea

Pelecypoda (juv.)

Cardiidae

Laevicardium substriatum

Cooperellidae

Cooperella subdiaphana

Corbulidae

Corbula luteola
Corbula sp.

Hiatellidae

Hiatella arctica

Kelliidae

?*Bornia* sp.

Leptonidae

"*Lepton meroeum*"

Lucinidae

Lucina nuttalli
Parvilucina tenuisculpta
 (= *Parvilucina* sp.)

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MOLLUSCA (cont.)

Pelecypoda (cont.)

Lyonsiidae

Lyonsia californica

Mactridae

*Mactra californica**Spisula* sp.*Tresus nuttalli*

Montacutidae

*Mysella grippi**Mysella pedroana**Mysella* sp.

Myidae

*Cryptomya californica**Platydon cancellatus*

Mytilidae

*Crenella divaricata**Crenella* sp.*Magacrenella columbiana*

Nuculanidae

Nuculana sp.

Pandoridae

Pandora sp.

Pectinidae

Leptopecten latiauratus

Periplomatidae

Periploma planiusculum

Petricolidae

Petricola sp.

Psammobiidae

?Gari californica

Semelidae

*Cumingia californica**Theora lubrica*

160

208

80

384

Solecurtidae

*Tagelus californianus**Tagelus subteres*

Solenidae

*Ensis myrae**Siliqua lucida**Solen rosaceus**Solen sicarius**Solen* sp.

Tellinidae

*Leporimetis obesa**Macoma acolasta**Macoma carlottensis**Macoma indentata**Macoma nasuta*

16

16

Macoma sp. (juv.)*Tellina carpenteri**Tellina idae*

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STATION C5

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)				
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>				
Veneridae				
<i>Compsomyax subdiaphana</i>				
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	16		16	32
PHORONIDA				
<i>Phoronis pallida</i>			16	
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

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ANNELIDA				
OLIGOCHAETA	928	1056	1808	512
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>				
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	32	32		
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	624	1072	1456	912
<i>Notomastus tenuis</i>				
Chaetopteridae				
<i>Spiochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	112	64	80	
<i>Chaetozone setosa</i>				144
<i>Cirratulus cirratus</i>	32			
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	2416	1376	2128	3088
Cossuridae				
<i>Cossura candida</i>	7088	8464	8304	11056
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>	112	16		48
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>				
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

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	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	80	80	96	32
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	32	32	32	32
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	32		64	16
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	16	16		
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>	128		16	144
Orbiniidae				
<i>Haploscoloplos elongatus</i>	16	16		
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutti</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>		16	16	16
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C6

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>				
Phyllodocidae				
<i>Anaitides nr. papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatae</i>				
<i>Eteone sp.</i>				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce sp.</i>			16	
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	48	480	432	192
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus sp. (branchiate)</i>				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>				
<i>Harmothoe priops</i>				
<i>Harmothoe scriptoria</i>				
<i>Harmothoe sp.</i>		16		
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes sp.</i>				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone sp.</i>	112		32	
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>	144	1152	832	768
<i>Magelomma pigmentum</i>				
<i>Miricola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelia uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia sp.</i>				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C6

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct. 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>				
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)		32	16	16
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>			16	16
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>			16	
<i>Prionospio heterobranchia</i>	96	80	32	16
<i>Prionospio pygmaeus</i>				
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)	48			208
<i>Prionospio</i> sp.	32			
<i>Pseudopolydora paucibranchiata</i>		16		96
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>		16		
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	48			
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>				
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea			32	
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C6

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	48	16		
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Eriothonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida				
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>		32	16	
Copepoda-Harpacticoida				
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>				48
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C6

6 Jan 10 Apr 10 Jul 13 Oct
1978 1978 1978 1978

ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

Pinnixa tubicola 16*Pinnixa* sp.*Scleroplax granulata*

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis* 16*Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macura

Callianassidae

Callianassa sp.*Upogebia* sp. 48 16

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea 16

Ostracoda

Cylindroleberdinae

*Euphilomedes carcharodonta**Philomedes* sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda 48

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C6

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

16

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

ECHIURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

16

Ophisthobranchia

Cephalaspidea

Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C6

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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MOLLUSCA (cont.)

Cephalaspidea (cont.)

Aglaja sp.
Cylichna diegensis
Gastropteron pacificum
Retusa sp.
Rictaxis punctocaelatus
Sulcoretusa sp.
Volvulella ?cylindrica
Volvulella panamica
Volvulella sp.

Pyramidellida

Odostomia sp.
Turbonilla sp.

Prosobranchia

Mesogastropoda

Caecidae

Caecum sp.
Fartulum sp.

Calyptraeidae

Crepidula dorsata
(=*Crepipatella lingulata*)
Crepidula sp.

Naticidae

Neverita reclusiana

Vitrinellidae

Vitrinella oldroydi

16

Neogastropoda

Nassariidae

Nassarius fossatus
Nassarius mendicus
Nassarius perpinguis

Olividae

Olivella baetica

Turridae

Kurtziella plumbea

Pelecypoda (juv.)

32

Cardiidae

Laevicardium substriatum

Cooperellidae

Cooperella subdiaphana

Corbulidae

Corbula luteola

Corbula sp.

Hiatellidae

Hiatella arctica

Kelliidae

?*Bornia* sp.

Leptonidae

"*Lepton meroeum*"

48

Lucinidae

Lucina nuttalli

Parvilucina tenuisculpta

(=*Parvilucina* sp.)

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C6

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Macridae				
<i>Mastra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>				
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>		16		
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Crimingia californica</i>	16			
<i>Theora lubrica</i>	960	816	1248	944
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>				
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)	16	16	112	48
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C6

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)			16	
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Azinopsida serricata</i>				
<i>Thyasira flexuosa</i>			16	16
Veneridae				
<i>Compsomyax subdiaphana</i>	16			
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	80	32	96	
PHORONIDA				
<i>Phoronis pallida</i>		16		
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	448	3184	144	912
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>		16		
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	1104	384	16	160
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	16	2032	752	240
<i>Notomastus tenuis</i>				
Chaetopteridae				
<i>Spiochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>			32	
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriiformia luxuriosa</i>				
<i>Tharyx</i> sp.	16	96	16	128
Cossuridae				
<i>Cossura candida</i>	16	1744	3648	752
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>	272	368	64	32
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>				
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>			16	
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	32	48		
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	32	16	96	
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>		32		
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>	48			48
Orbiniidae				
<i>Haploscoloplos elongatus</i>				
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutti</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>				
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C7

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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POLYCHAETA (cont.)

Pectinariidae

Pectinaria californiensis

Phyllodoceidae

Anaitides nr. *papillosa**Eteone californica**Eteone dilatata**Eteone* sp.*Eumida bifoliata**Eumida sanguinea**Phyllodoce* sp.

Pilargiidae

*Ancistrosyllis hamata**Pilargis berkeleyi**Sigambra tentaculata*

48

16

Poecilochaetidae

*Poecilochaetus johnsoni**Poecilochaetus* sp. (branchiate)

Polynoidae

*Halosydna johnsoni**Harmothoe imbricata**Harmothoe priops*

16

*Harmothoe scriptoria**Harmothoe* sp.

Polyodontidae

*Polyodontes ?panamensis**Polyodontes* sp.

Sabellariidae

*Phragmatopoma californica**Sabellaria cementarium*

Sabellidae

*Chone gracilis**Chone veleronis**Chone* sp.*Euchone incolor**Eucone limnicola*

64

864

96

32

*Magelomma pigmentum**Miricola infundibulum*

Scalibregmidae

Scalibregma inflatum

16

Serpulidae

Eupomatus gracilis

Sigalionidae

*Pholoe glabra**Sthenelais verruculosa**Sthenelanella uniformis*

Sphaerodoridae

Sphaerodorum sphaerulifer

Spionidae

*Boccardia hamata**Boccardia* sp.*Caraziella califia*

("Pseudopolydora n.gen.")

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C7

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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POLYCHAETA (cont.)

Spionidae (cont.)

*Laonice cirrata**Paraprionospio pinnata* (= *Prionospio pinnata*)*Polydora biocipitalis**Polydora caulleryi* (= *P. brachycephala*)*Polydora ligni*

16

*Polydora limicola**Polydora socialis**Polydora* sp.*Prionospio cirrifera**Prionospio heterobranchia**Prionospio pygmaeus*

16

Prionospio steenstrupi (= *P. nr. malmgreni*)*Prionospio* sp.*Pseudopolydora paucibranchiata*

16

Scolelepis acuta

16

*Spiophanes berkeleyorum**Spiophanes bombyx**Spiophanes missionensis*

32

Streblospio benedicti

Sternaspidae

Sternaspis fossor

Syllidae

Brania sp.*Exogone lourei**Exogone verrugera**Exogone* sp.? *Langerhansia* sp.*Sphaerosyllis californiensis**Typosyllis* sp.

Terrebellidae

Amaeana occidentalis? *Amage* sp.*Loimia medusa**Lysippe labiata**Pista* ? *disjuncta**Pista fasciata**Pista* sp. (juv.)*Streblosoma crassibranchia*

Trichobranchidae

Terebellides stroemi

ARTHROPODA CRUSTACEA

Amphipoda-Caprellidea

64

Caprellidae

*Caprella equilibra**Caprella* sp.

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	32	16	16	
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Eriethonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida		32		
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>				
Copepoda-Harpacticoida	16			
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>		32		
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaita tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C7

6 Jan
1978

10 Apr
1978

10 Jul
1978

13 Oct
1978

ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

Pinnixa tubicola

Pinnixa sp.

Scleroplax granulata

16

Caridea

Alpheidae

Alpheus californiensis

Betaeus ensenadensis

Betaeus harrimani

Betaeus ?longidactylus

Betaeus sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.

Upogebia sp.

16

Isopoda

Gnathia crenulatifrons

Gnathia sp.

Munna sp.

Serolis carinata

Serolis sp.

Mysidacea

Ostracoda

Cylindroleberdinae

Euphilomedes carcharodonta

Philomedes sp.

Rutiderma rostrata

Sarsiella sp.

Scleroconcha sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

Balanus tintinnabulum californicus

Balanus sp.

ARTHROPODA PYCNOGONIDA

Anoplodactylus erectus

Callipallene californiensis

ASCHELMINTHES

Nematoda

64

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C7

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.
Edwardsiidae
Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reimwardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

ECHIURA

Listriolobus peloides

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

Aoteocina culcitella
Aoteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C7

6 Jan
1978

10 Apr
1978

10 Jul
1978

13 Oct
1978

MOLLUSCA (cont.)

Cephalaspidea (cont.)

Aglaia sp.
Cylichna diegensis
Gastropteron pacificum
Retusa sp.
Rictaxis punctocaelatus
Sulcoretusa sp.
Volvulella ?cylindrica
Volvulella panamica
Volvulella sp.

Pyramidellida

Odostomia sp.
Tarbovella sp.

Prosobranchia

Mesogastropoda

Caecidae

Caecum sp.
Fartulum sp.

Calyptraeidae

Crepidula dorsata
(=*Crepipatella lingulata*)
Crepidula sp.

Naticidae

Neverita reclusiana

Vitrinellidae

Vitrinella oldroydi

Neogastropoda

Nassariidae

Nassarius fossatus
Nassarius mendicus
Nassarius perpinguis

Olividae

Olivella baetica

Turridae

Kurtziella plumbea

Pelecypoda (juv.)

80

Cardiidae

Laevicardium substriatum

Cooperellidae

Cooperella subdiaphana

Corbulidae

Corbula luteola
Corbula sp.

Hiatellidae

Hiatella arctica

Kelliidae

?*Bornia* sp.

Leptonidae

"*Lepton meroeum*"

Lucinidae

Lucina nuttalli
Parvilucina tenuisculpta
(=*Parvilucina* sp.)

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				16
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>				
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>	208	528	144	496
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>				
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>		96	176	48
<i>Macoma</i> sp. (juv.)		16		
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C7

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)	16			
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>				
Veneridae				
<i>Compsomyax subdiaphana</i>				16
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA		32		
PHORONIDA				
<i>Phoronis pallida</i>				16
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C8

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	32	400	144	144
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>				16
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	48	4544	16	64
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	3712	64	640	640
<i>Notomastus tenuis</i>				
Chaetopteridae				
<i>Spirochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	32			
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				16
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	448	16	192	384
Cossuridae				
<i>Cossura candida</i>	224	64	48	624
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>	64	16	48	48
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>				
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C 8

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>				
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	16			16
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	32	16	48	144
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	16			
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>	64		16	16
Orbiniidae				
<i>Haploscoloplos elongatus</i>	16			
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>				
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C8

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>			16	16
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>	32			
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Anaistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	144		16	16
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>	16			
<i>Harmothoe priops</i>			16	
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.	48			96
<i>Euchone incolor</i>	16			
<i>Eucone limnicola</i>	368	1568	1472	880
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelle uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C8

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	32			
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)			16	
<i>Polydora bioceipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>		16	16	16
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora sp.</i>				
<i>Prionospio cirrifera</i>	16			16
<i>Prionospio heterobranchia</i>	80		16	32
<i>Prionospio pygmaeus</i>				
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)	64			
<i>Prionospio sp.</i>				
<i>Pseudopolydora paucibranchiata</i>	48		32	80
<i>Scolelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>	16			
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>				32
<i>Streblospio benedicti</i>				16
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania sp.</i>	16			
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone sp.</i>				
? <i>Langerhansia sp.</i>				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis sp.</i>				
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage sp.</i>				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista ?disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista sp. (juv.)</i>				
<i>Streblosoma crassibranchia</i>				
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella sp.</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C8
13 Oct
1978

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	16			
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Eriothonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida				
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>				
Copepoda-Harpacticoida	64	16		
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>				64
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae		16		
Brachyura				
Cancriidae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	32			
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C8

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

16

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.*Upogebia* sp.

32

80

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

Ostracoda

Cylindroleberdinae

*Euphilomedes carcharodonta**Philomedes* sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

16

816

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS

STATION C8

BENTHIC DATA

6 Jan
197810 Apr
197810 Jul
197813 Oct
1978

BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys
Gobiidae (larvae)
Clevelandia ios
Urochordata
Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

16

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?*occidentalis*
Amphiodia urtica
Amphiodia sp. (juv.)

ECHIUURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C8

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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MOLLUSCA (cont.)

Cephalaspidea (cont.)

Aglaja sp.
Cylichna diegensis
Gastropteron pacificum
Retusa sp.
Rictaxis punctocaelatus
Sulcoretusa sp.
Volvulella ?cylindrica
Volvulella panamica
Volvulella sp.

Pyramidellida

Odostomia sp.
Turbonilla sp.

16

Prosobranchia

Mesogastropoda

Caecidae

Caecum sp.
Fartulum sp.

Calyptraeidae

Crepidula dorsata
(=*Crepipatella lingulata*)
Crepidula sp.

Naticidae

Neverita reclusiana

Vitrinellidae

Vitrinella oldroydi

Neogastropoda

Nassariidae

Nassarius fossatus
Nassarius mendicus
Nassarius perpinguis

16

Olividae

Olivella baetica

Turridae

Kurtziella plumbea

Pelecypoda (juv.)

Cardiidae

Laevicardium substriatum

Cooperellidae

Cooperella subdiaphana

Corbulidae

Corbula luteola
Corbula sp.

Hiatellidae

Hiatella arctica

Kelliidae

?*Bornia* sp.

Leptonidae

"*Lepton meroeum*"

Lucinidae

Lucina nuttalli
Parvilucina tenuisculpta
(=*Parvilucina* sp.)

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C8

6 Jan 10 Apr 10 Jul 13 Oct
1978 1978 1978 1978

MOLLUSCA (cont.)

Pelecypoda (cont.)

Lyonsiidae

Lyonsia californica

Mactridae

*Mactra californica**Spisula* sp.*Tresus nuttalli*

Montacutidae

*Mysella grippi**Mysella pedroana**Mysella* sp.

Myidae

*Cryptomya californica**Platydon cancellatus*

Mytilidae

*Crenella divaricata**Crenella* sp.*Magacrenella columbiana*

Nuculanidae

Nuculana sp.

Pandoridae

Pandora sp.

Pectinidae

Leptopecten latiauratus

Periplomatidae

Periploma planiusculum

Petricolidae

Petricola sp.

Psammobiidae

?Gari californica

Semelidae

Cumingia californica

32

Theora lubrica

368

16

304

752

Solecurtidae

*Tagelus californianus**Tagelus subteres*

Solenidae

*Ensis myrae**Siliqua lucida*

16

*Solen rosaceus**Solen sicarius**Solen* sp.

Tellinidae

*Leporimeta obesa**Macoma acolasta**Macoma carlottensis**Macoma indentata**Macoma nasuta*

112

Macoma sp. (juv.)

16

*Tellina carpenteri**Tellina idae*

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C8

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)				
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>	32			16
Veneridae				
<i>Compsomyax subdiaphana</i>	16			
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				16
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)			32	
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA		32	16	16
PHORONIDA	224			
<i>Phoronis pallida</i>			16	
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				
POLYCHAETA	48	64	16	224
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>				16
<i>Melinna oculata</i>				16
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.		16	32	32
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	720	1552	304	3248
<i>Notomastus tenuis</i>		16		48
Chaetopteridae				
<i>Spiochaetopterus costarum</i>	16			
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	32	160	80	48
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>	96			
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	512	432	64	480
Cossuridae				
<i>Cossura candida</i>	80	5584	3216	800
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>	16			
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				16
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>		16	16	
<i>Glycera capitata</i>		16		
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>				
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	32			48
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	16	48	80	192
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	32	16		
<i>Nereis</i> sp. (juv.)				64
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>			16	
Orbiniidae				
<i>Haploscoloplos elongatus</i>				16
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutti</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>				
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>		16		32
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>	32			
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>		80	16	
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>				
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>		16	16	
<i>Harmothoe priops</i>		16		
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>	16			
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.				
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>	80	256	203	288
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelle uniformis</i>	16			
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>				
<i>Paraprionospio pinnata</i> (=Prionospio pinnata)		16		
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (=P. brachycephala)				
<i>Polydora ligni</i>	144			
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>				
<i>Prionospio heterobranchia</i>		16		
<i>Prionospio pygmaeus</i>				
<i>Prionospio steenstrupi</i> (=P.nx. malmgreni)				
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>	432			32
<i>Scoelelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>			32	
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>			16	
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fessor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>		96		16
Trichobranchidae				
<i>Terebellides stroemi</i>				16
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	32		32	
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				16
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Eriothonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida		32		
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>		96		
Copepoda-Harpacticoida	352			
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Ocyurostylus pacifica</i>				48
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	16			
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS

STATION C9

BENTHIC DATA

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197810 Apr
197810 Jul
197813 Oct
1978

ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

16

64

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.

80

32

16

Upogebia sp.

16

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Marna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

16

Ostracoda

Cylindroleberdinae

*Euphilomedes carcharodonta**Philomedes* sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C9

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

16

16

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

ECHIURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C9

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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MOLLUSCA (cont.)

Cephalaspidea (cont.)

Aglaia sp.
Cylichna diegensis
Gastropteron pacificum
Retusa sp.
Rictaxis punctocaelatus
Sulcoretusa sp.
Volvulella ?cylindrica
Volvulella panamica
Volvulella sp.

Pyramidellida

Odostomia sp.
Turbonilla sp.

Prosobranchia

Mesogastropoda

Caecidae
Caecum sp.
Fartulum sp.
Calyptraeidae
Crepidula dorsata
(=*Crepipatella lingulata*)
Crepidula sp.

Naticidae

Neverita reclusiana

Vitrinellidae

Vitrinella oldroydi

144

Neogastropoda

Nassariidae

Nassarius fossatus
Nassarius mendicus
Nassarius perpinguis

Olividae

Olivella baetica

Turridae

Kurtziella plumbea

Pelecypoda (juv.)

32

Cardiidae

Laevicardium substriatum

Cooperellidae

Cooperella subdiaphana

Corbulidae

Corbula luteola
Corbula sp.

Hiatellidae

Hiatella arctica

Kelliidae

?*Bornia* sp.

Leptonidae

"*Lepton meroeum*"

Lucinidae

Lucina nuttalli
Parvilucina tenuisculpta
(=*Parvilucina* sp.)

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Felecyopoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus mutalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>				
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>		320	96	624
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				16
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.				
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>				
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)		16		
<i>Tellina carpenteri</i>	208		32	16
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C9

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)				
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Azinopsida serricata</i>				
<i>Thyasira flexuosa</i>			16	
Veneridae				
<i>Compsomyax subdiaphana</i>				16
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	80	32		48
PHORONIDA				
<i>Phoronis pallida</i>		16		
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA	80	368	1120	1520
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>				
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	16			16
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	3968	2528	2944	2496
<i>Notomastus tenuis</i>				16
Chaetopteridae				
<i>Spirochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	144	640	224	16
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	1728	1392	1568	384
Cossuridae				
<i>Cossura candida</i>	32	240	1392	1168
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>			32	
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>				
<i>Glycera capitata</i>			16	
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>				
<i>Gyptis brunnea</i>				
<i>Ophiiodromus pugettensis</i>	16	48		32
Lumbrineridae				
<i>Lumbrineris</i> spp.	32	64	32	32
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>				
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	80	32	48	272
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	80	96		64
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)				
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>	32		16	
Orbiniidae				
<i>Haploscoloplos elongatus</i>		16	32	16
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>		16		
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>				
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>				
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>	16	16	80	
<i>Eteone californica</i>				
<i>Eteone dilatata</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>			16	
<i>Eumida sanguinea</i>	80			
<i>Phyllodoce</i> sp.	16		16	
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	64	192	64	16
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>	32			
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>		16		
<i>Harmothoe priops</i>		48		16
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.				
<i>Euchone incolor</i>				
<i>Eucone limnicola</i>	1392	752	2752	224
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanelia uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>				
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	32	16		32
<i>Polydora bioccephitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				16
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	16		16	16
<i>Prionospio heterobranchia</i>	16	16	16	16
<i>Prionospio pygmaeus</i>			16	
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)	80			
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>		16		16
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>	16			80
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>				16
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	272		80	
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION C10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea			144	
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida				
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>		96		
Copepoda-Harpacticoida	80			
Cumacea				
Bdodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>		16	64	
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae		48		
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
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1978

ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

80

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macura

Callianassidae

Callianassa sp.

16

80

Upogebia sp.

16

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Mima* sp.*Serolis carinata**Serolis* sp.

Mysidacea

16

Ostracoda

Cylindroleberdinae

32

*Euphilomedes carcharodonta**Philomedes* sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptocheilia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

16

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

48

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C10

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)

Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides**Isoedwardsia* sp. A

Pennatulacea

*?Stylatula elongata**Virgularia* nr. *reinsardi*

Ceriantharia

Botrucnidifer sp.*Pachycerianthus* sp.

Hydrozoa - Hydroida

*Bimeria robusta**Corymorpha aurata**Obelia dichotoma*

16

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

*Amphiodia ?occidentalis**Amphiodia urtica**Amphiodia* sp. (juv.)

ECHIURA

Istriolobus peloides

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

16

Cephalaspidea

*Acteocina culcitella**Acteocina harpa**Aglaja ocelligera*

16

16

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C10

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MOLLUSCA (cont.)

Cephalaspidea (cont.)

<i>Aglaja</i> sp.	16		
<i>Cylichna diegensis</i>			
<i>Gastropteron pacificum</i>			
<i>Retusa</i> sp.			
<i>Rictaxis punctocaelatus</i>			
<i>Sulcoretusa</i> sp.			
<i>Volvulella ?cylindrica</i>			
<i>Volvulella panamica</i>			
<i>Volvulella</i> sp.			

Pyramidellida

<i>Odostomia</i> sp.			
<i>Turbonilla</i> sp.			

Prosobranchia

Mesogastropoda

Caecidae

<i>Caecum</i> sp.			
<i>Fartulum</i> sp.			

Calyptraeidae

<i>Crepidula dorsata</i>			
(= <i>Crepidatella lingulata</i>)			
<i>Crepidula</i> sp.			

Naticidae

<i>Neverita reclusiana</i>			
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Vitrinellidae

<i>Vitrinella oldroydi</i>			
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Neogastropoda

Nassariidae

<i>Nassarius fossatus</i>			
<i>Nassarius mendicus</i>			
<i>Nassarius perpinguis</i>			

Olividae

<i>Olivella baetica</i>			
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Turridae

<i>Kurtziella plumbea</i>			
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Pelecypoda (juv.)

Cardiidae

<i>Laevicardium substriatum</i>			
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Cooperellidae

<i>Cooperella subdiaphana</i>	16		
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Corbulidae

<i>Corbula luteola</i>			
<i>Corbula</i> sp.	48		

Hiatellidae

<i>Hiatella arctica</i>			
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Kelliidae

? <i>Bornia</i> sp.			
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Leptonidae

" <i>Lepton meroeum</i> "	16	32	
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Lucinidae

<i>Lucina nuttalli</i>			
<i>Parvilucina tenuisculpta</i>	16		
(= <i>Parvilucina</i> sp.)			

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C10

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MOLLUSCA (cont.)

Pelecypoda (cont.)

Lyonsiidae

Lyonsia californica

Mactridae

*Mactra californica**Spisula* sp.*Tresus nuttalli*

Montacutidae

*Mysella grippi**Mysella pedroana**Mysella* sp.

Myidae

*Cryptomya californica**Platydon cancellatus*

Mytilidae

*Crenella divaricata**Crenella* sp.*Magacrenella columbiana*

Nuculanidae

Nuculana sp.

Pandoridae

Pandora sp.

Pectinidae

Leptopecten latiauratus

Periplomatidae

Periploma planiusculum

Petricolidae

Petricola sp.

Psammobiidae

?Gari californica

Semelidae

*Cumingia californica**Theora lubrica*

32

336

16

560

12 32

Solecurtidae

*Tagelus californianus**Tagelus subteres*

Solenidae

*Ensis myrae**Siliqua lucida*

16

*Solen rosaceus**Solen sicarius**Solen* sp.

Tellinidae

*Leporimetis obesa**Macoma acolasta*

16

*Macoma carlottensis**Macoma indentata**Macoma nasuta*

32

160

Macoma sp. (juv.)

336

128

*Tellina carpenteri**Tellina idae*

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)				
Thraciidae				
<i>Thracia curta</i>				32
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>			32	16
Veneridae				
<i>Compsomyax subdiaphana</i>			16	
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)			32	16
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)			16	
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	96	80	128	80
PHORONIDA	16			
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C11

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA		96		64
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphiteteis scaphobranchiata</i>				
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	128	11648	5264	2080
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	16			
<i>Notomastus tenuis</i>				
Chaetopteridae				
<i>Spiochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>			16	
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriiformia luxuriosa</i>				
<i>Tharyx</i> sp.				
Cossuridae				
<i>Cossura candida</i>		16	32	
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>	96	176	48	96
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>				
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
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POLYCHAETA (cont.)

Goniodidae (cont.)

Goniada brunnea
Goniada littorea
Goniada sp. (juv.)

Hesionidae

Gyptis brevipalpa
Gyptis brunnea
Ophiodromus pugettensis

Lumbrineridae

Lumbrineris spp.

32

Magelonidae

Magelona pacifica
Magelona pitelkai

Maldanidae

Asychis disparidentata
Asychis sp.
Axiiothella sp.

Nephtyidae

Aglaophamus dicirris
Nephtys caecoides
Nephtys californiensis
Nephtys cornuta franciscana
Nephtys ferruginea

64

Nereidae

"epitokus nereid"
Neanthes arenaceodentata
Nereis procera
Nereis sp. (juv.)

Onuphidae

Diopatra ornata
Diopatra splendidissima
Diopatra tridentata
Diopatra sp. (juv.)
Nothria elegans
Nothria iridescens
Nothria sp.
Onuphis nebulosa

Opheliidae

Armandia bioculata

Orbiniidae

Haploscoloplos elongatus

Oweniidae

Owenia collaris

Paraonidae

Acesta catherinae
Acesta cerrutii
Acesta horikoshii
Acesta sp.
Arioidea wassi
Tauberia oculata
(=*Paraonis gracilis oculata*)

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

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POLYCHAETA (cont.)

Pectinariidae

Pectinaria californiensis

Phyllodocidae

Anaitides nr. *papillosa**Eteone californica**Eteone dilatata**Eteone* sp.*Eumida bifoliata**Eumida sanguinea**Phyllodoce* sp.

Pilargiidae

*Ancistrostylis hamata**Pilargis berkeleyi**Sigambra tentaculata*

Poecilochaetidae

*Poecilochaetus johnsoni**Poecilochaetus* sp. (branchiate)

Polynoidae

*Halosydna johnsoni**Harmothoe imbricata**Harmothoe priops**Harmothoe scriptoria**Harmothoe* sp.

Polyodontidae

*Polyodontes ?panamensis**Polyodontes* sp.

Sabellariidae

*Phragmatopoma californica**Sabellaria cementarium*

Sabellidae

*Chone gracilis**Chone veleronis**Chone* sp.*Euchone incolor**Eucone limnicola**Magelomma pigmentum**Mixicola infundibulum*

Scalibregmidae

Scalibregma inflatum

Serpulidae

Eupomatus gracilis

Sigalionidae

*Pholoe glabra**Sthenelais verruculosa**Sthenelanella uniformis*

Sphaerodoridae

Sphaerodorum sphaerulifer

Spionidae

*Boccardia hamata**Boccardia* sp.*Caraziella califia*

("Pseudopolydora n.gen.")

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POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>				
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)				16
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				80
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>				
<i>Prionospio heterobranchia</i>				32
<i>Prionospio pygmaeus</i>				
<i>Prionospio steenstrupi</i> (= <i>P. nx. malmgreni</i>)				
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolecopsis acuta</i>				
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>				
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				16
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>				
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

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BENTHIC DATA

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1978

ARTHROPODA CRUSTACEA (cont.)

Amphipoda-Gammaridea

48

*Ampelisca cristata**Ampelisca* sp.*Amphideutopus oculatus**Argissa hamatipes**Corophium acherusicum**Erichthonius brasiliensis**Listriella goleta**Monoculodes* sp.*Paraphoxus* sp.*Photis* sp.

Copepoda-Canaloida

Copepoda-Cyclopoida

Clausidium vancouverense

Copepoda-Harpacticoida

400

Cumacea

Bodotriidae

Cyclaspis sp.

Diastylidae

Diastylis sp.*Diastylopsis tenuis**Leptostylus* sp. A*Leptostylus* sp. B*Leptostylus* sp.*Oxyurostylus pacifica*

Lampropidae

Hemilamprops californica

Nannastacidae

Campylaspis sp. C*Campylaspis* sp.*Cumella* sp.

Decapoda

decapod zoea larvae

Brachyura

Cancridae

Cancer sp.

Grapsidae

Hemigrapsus oregonensis

Leucosiidae

Randallia ornata

Majidae

Pyromaia tuberculata

Parthenopidae

Heterocrypta occidentalis

Pinnotheridae

*Opisthopus transversus**Pinnixa franciscana**Pinnixa littoralis**Pinnixa longipes**Pinnixa schmitti**Pinnixa transversus*

HARBORS ENVIRONMENTAL PROJECTS

STATION C11

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6 Jan
197810 Apr
197810 Jul
197813 Oct
1978

ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.*Upogebia* sp.

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

16

Ostracoda

Cylindroleberdinae

*Euphilomedes carcharodonta**Philomedes* sp.

32

*Rutiderna rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptocheilia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

832

6448

560

5824

BRACHIPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C11

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys
Gobiidae (larvae)
Clevelandia ios
Urochordata
Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa
Actinaria
Diadumene sp.
Edwardsiidae
Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A
Pennatulacea
?Stylatula elongata
Virgularia nr. *reinwardi*
Ceriantharia
Botrucnidifer sp.
Pachycerianthus sp.
Hydrozoa - Hydroida
Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea
Leptosynapta albicans
Ophiuroidea (juv.)
Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

ECHIURA

Listriolobus pelodes

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda
Ophisthobranchia
Cephalaspidea
Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C11

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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MOLLUSCA (cont.)

Cephalaspidea (cont.)

Aglaja sp.
Cylichna diegensis
Gastropteron pacificum
Retusa sp.
Rictaxis punctocaelatus
Sulcoretusa sp.
Volvulella ?cylindrica
Volvulella panamica
Volvulella sp.

Pyramidellida

Odostomia sp.
Turbonilla sp.

Prosobranchia

Mesogastropoda

Caecidae
Caecum sp.
Fartulum sp.
Calyptraeidae
Crepidula dorsata
(=*Crepipatella lingulata*)
Crepidula sp.

Naticidae

Neverita reclusiana

Vitrinellidae

Vitrinella oldroydi

Neogastropoda

Nassariidae

Nassarius fossatus
Nassarius mendicus
Nassarius perpinguis

Olividae

Olivella baetica

Turridae

Kurtziella plumbea

Pelecypoda (juv.)

Cardiidae

Laevicardium substriatum

Cooperellidae

Cooperella subdiaphana

Corbulidae

Corbula luteola
Corbula sp.

Hiatellidae

Hiatella arctica

Kelliidae

?*Bornia* sp.

Leptonidae

"*Lepton meroeum*"

Lucinidae

Lucina nuttalli
Parvilucina tenuisculpta
(=*Parvilucina* sp.)

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C11

6 Jan
197810 Apr
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197813 Oct.
1978

MOLLUSCA (cont.)

Pelecypoda (cont.)

Lyonsiidae

Lyonsia californica

Mactridae

*Mactra californica**Spisula* sp.*Tresus nuttalli*

Montacutidae

*Mysella grippi**Mysella pedroana**Mysella* sp.

Myidae

*Cryptomya californica**Platydon cancellatus*

Mytilidae

*Crenella divaricata**Crenella* sp.*Magacrenella columbiana*

Nuculanidae

Nuculana sp.

Pandoridae

Pandora sp.

Pectinidae

Leptopecten latiauratus

Periplomatidae

Periploma planiusculum

Petricolidae

Petricola sp.

Psammobiidae

?Gari californica

Semelidae

*Cumingia californica**Theora lubrica*

Solecurtidae

*Tagelus californianus**Tagelus subteres*

Solenidae

*Ensis myrae**Siliqua lucida**Solen rosaceus**Solen sicarius**Solen* sp.

Tellinidae

*Leporimetis obesa**Macoma acolasta**Macoma carlottensis**Macoma indentata**Macoma nasuta**Macoma* sp. (juv.)*Tellina carpenteri**Tellina idae*

32

32

16

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION C11

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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MOLLUSCA (cont.)

Pelecypoda (cont.)

Tellenidae (cont.)

*Tellina modesta**Tellina* sp. (juv.)

16

Thraciidae

Thracia curta

Thasiridae

*Axinopsida serricata**Thyasira flexuosa*

Veneridae

*Compsomyax subdiaphana**Protothaca staminea**Protothaca* sp. (juv.)*Saxidomus nuttali**Saxidomus* sp. (juv.)

Scaphopoda

Cadulus fusiformis

NEMERTEA

PHORONIDA

*Phoronis pallida**Phoronis* sp.*Phoronopsis* sp.

PLATYHELMINTHES

Polycladia

PROTOZOA

Foraminifera

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION D1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>		20	10	
<i>Amphicteis scaphobranchiata</i>	32		10	16
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>	16			
Capitellidae				
<i>?Anotomastus gordioides</i>				
<i>Capitella capitata</i>				
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	688	670	3050	3904
<i>Notomastus tenuis</i>	16	10		16
Chaetopteridae				
<i>Spiochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	192	20		
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	1856	550	540	800
Cossuridae				
<i>Cossura candida</i>	5040	10	2260	5056
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>		10		
<i>Marphysa disjuncta</i>	48			16
Flabelligeridae				
<i>Fherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>	32	10		16
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rowleyi</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION D1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>				
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>	64	10	40	48
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	96	120	40	
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>	32		10	
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.		70		
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	688	200	180	272
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	80	30		32
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)		20		
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>	288	40	70	288
Oweniidae				
<i>Owenia collaris</i>			10	
Paraonidae				
<i>Acesta catherinae</i>	48			48
<i>Acesta cerruti</i>				
<i>Acesta horikoshii</i>				
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>			10	
<i>Tauberia oculata</i>	560	280	160	496
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION D1

6 Jan
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POLYCHAETA (cont.)

Pectinariidae

Pectinaria californiensis

30

32

Phyllodocidae

Anaitides nr. *papillosa**Eteone californica**Eteone dilatata**Eteone* sp.

10

*Eumida bifoliata**Eumida sanguinea**Phyllodoce* sp.

20

Pilargiidae

*Ancistrosyllis hamata**Pilargis berkeleyi**Sigambra tentaculata*

70

110

624

Poecilochaetidae

Poecilochaetus johnsoni

32

Poecilochaetus sp. (branchiate)

10

Polynoidae

*Halosydna johnsoni**Harmothoe imbricata*

16

10

16

Harmothoe priops

16

30

*Harmothoe scriptoria**Harmothoe* sp.

Polyodontidae

*Polyodontes ?panamensis**Polyodontes* sp.

Sabellariidae

*Phragmatopoma californica**Sabellaria cementarium*

Sabellidae

*Chone gracilis**Chone veleronis**Chone* sp.*Euchone incolor*

10

*Eucone limnicola**Magelomma pigmentum**Mixicola infundibulum*

Scalibregmidae

Scalibregma inflatum

Serpulidae

Eupomatus gracilis

Sigalionidae

Pholoe glabra

32

Sthenelais verruculosa

32

Sthenelanelle uniformis

10

Sphaerodoridae

Sphaerodorum sphaerulifer

Spionidae

*Boccardia hamata**Boccardia* sp.*Caraziella califia*

("Pseudopolydora n.gen.")

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION D1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	48		10	
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	48	60	20	
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	160		110	272
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>	16			16
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)				16
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolelepis acuta</i>				
<i>Spiophanes berkeleyorum</i>			10	48
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	16			
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>			10	16
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>			20	32
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	144	10	30	192
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION D1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	64	10	60	
<i>Ampelisca cristata</i>				16
<i>Ampelisca</i> sp.				16
<i>Amphideutopus oculatus</i>				16
<i>Argissa hamatipes</i>				16
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida	128			
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>				
Copepoda-Harpacticoida				
Cumacea				
Bodotriidae		60		
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>				
Lampropidae			170	16
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				16
Brachyura				
Cancridae		10		
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae	16			
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				80
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION D1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Soleroplax granulata*

10

10

30

60

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.*Upogebia* sp.

10

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Murra* sp.*Serolis carinata**Serolis* sp.

10

Mysidacea

16

Ostracoda

Cylindroleberdinae

32

*Euphilomedes carcharodonta**Philomedes* sp.

16

*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

48

48

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION D1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
BRYOZOA (=ECTOPROCTA)				
<i>Bowerbankia gracilis</i>				
<i>Bugula neritina</i>				
CHAETOGNATHA				
CHORDATA				
Osteichthys				
Gobiidae (larvae)				
<i>Clevelandia ios</i>				
Urochordata				
Ascidacea				
CNIDARIA (=COELENTERATA)				
Anthozoa				
Actinaria				
<i>Diadumene</i> sp.				
Edwardsiidae				
<i>Edwardsia</i> nr. <i>sipunculoides</i>			10	
<i>Isoedwardsia</i> sp. A				
Pennatulacea				
? <i>Stylatula elongata</i>				
<i>Virgularia</i> nr. <i>reinwardi</i>				
Ceriantharia				
<i>Botrucnidifer</i> sp.			30	
<i>Pachycerianthus</i> sp.				
Hydrozoa - Hydroida				
<i>Bimeria robusta</i>				
<i>Corymorpha aurata</i>				
<i>Obelia dichotoma</i>				
ECHINODERMATA				
Holothuroidea				
<i>Leptosynapta albicans</i>				
Ophiuroidea (juv.)	96			
<i>Amphiodia ?occidentalis</i>				
<i>Amphiodia urtica</i>				
<i>Amphiodia</i> sp. (juv.)				
ECHIURA				
<i>Listriolobus pelocles</i>		10		
ENTOPROCTA				
<i>Barentsia discreta</i>				
HEMICHORDATA				
Enteropneusta				16
MOLLUSCA				
Gastropoda				
Ophisthobranchia				
Cephalaspidea				16
<i>Acteocina culcitella</i>				
<i>Acteocina harpa</i>		20		
<i>Aglaja ocelligera</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION D1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>		10		
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.			10	
<i>Rictaxis punctocaelatus</i>		10		32
<i>Sulcoretusa</i> sp.	16			32
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>		60		64
<i>Volvulella</i> sp.	80		40	
Pyramidellida				
<i>Odostomia</i> sp.			10	64
<i>Turbonilla</i> sp.	32			
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.				
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>				16
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>				
<i>Nassarius perpinguis</i>				
Olividae				
<i>Olivella baetica</i>	64	30	160	240
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>				144
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "			10	
Lucinidae				
<i>Lucina nuttalli</i>			20	
<i>Parvilucina tenuisculpta</i>	64		30	
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION D1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>	48			32
<i>Mysella</i> sp.				16
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.		30		
Pandoridae				
<i>Pandora</i> sp.		10		
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>	32	60		
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.				16
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>				
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)				32
<i>Tellina carpenteri</i>				16
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION D1

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)	16			
Thraciidae				
<i>Thracia curta</i>	160	40	40	32
Thasiridae				
<i>Azinopsida serricata</i>	16		10	
<i>Thyasira flexuosa</i>	32			
Veneridae				
<i>Compsomyax subdiaphana</i>	80	10	10	46
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				32
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda		20		
<i>Cadulus fusiformis</i>				
NEMERTEA	240		140	192
PHORONIDA	16	40		
<i>Phoronis pallida</i>			10	
<i>Phoronis</i> sp.				
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION D2

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>			20	
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	10			48
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	3570	50	2580	3424
<i>Notomastus tenuis</i>				
Chaetopteridae				
<i>Spiochaetopterus costarum</i>			10	16
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	10		100	
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	30		40	
Cossuridae				
<i>Cossura candida</i>	390	60	470	944
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>	30			64
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>	10			
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

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POLYCHAETA (cont.)

Goniodidae (cont.)

*Goniada brunnea**Goniada littorea**Goniada* sp. (juv.)

Hesionidae

Gyptis brevipalpa 140*Gyptis brunnea**Ophiodromus pugettensis*

Lumbrineridae

Lumbrineris spp. 10

Magelonidae

*Magelona pacifica**Magelona pitelkai*

Maldanidae 20

*Asychis disparidentata**Asychis* sp.*Axiiothella* sp.

Nephtyidae

*Aglaophamus dicirris**Nephtys caecoides**Nephtys californiensis**Nephtys cornuta franciscana* 40*Nephtys ferruginea* 110 390 48

Nereidae

"epitokus nereid"

*Neanthes arenaceodentata**Nereis procera**Nereis* sp. (juv.)

Onuphidae

*Diopatra ornata**Diopatra splendidissima**Diopatra tridentata**Diopatra* sp. (juv.) 20 40*Nothria elegans**Nothria iridescens**Nothria* sp. 10*Onuphis nebulosa*

Opheliidae

Armandia bioculata 30 656

Orbiniidae

Haploscoloplos elongatus

Oweniidae

Owenia collaris

Paraonidae

*Acesta catherinae**Acesta cerrutii**Acesta horikoshii**Acesta* sp.*Aricidea wassi**Tauberia oculata*(-*Paraonis gracilis oculata*)

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POLYCHAETA (cont.)

Pectinariidae

Pectinaria californiensis

20

Phyllodocidae

Anaitides nr. *papillosa**Eteone californica**Eteone dilatata**Eteone* sp.*Eumida bifoliata**Eumida sanguinea**Phyllodoce* sp.

Pilargiidae

*Ancistrosyllis hamata**Pilargis berkeleyi**Sigambra tentaculata*

180

Poecilochaetidae

*Poecilochaetus johnsoni**Poecilochaetus* sp. (branchiate)

Polynoidae

*Halosydna johnsoni**Harmothoe imbricata**Harmothoe priops*

10

Harmothoe scriptoria

10

Harmothoe sp.

Polyodontidae

*Polyodontes ?panamensis**Polyodontes* sp.

Sabellariidae

*Phragmatopoma californica**Sabellaria cementarium*

Sabellidae

*Chone gracilis**Chone veleronis**Chone* sp.*Euchone incolor**Eucone limnicola*

10

*Magelomma pigmentum**Mixicola infundibulum*

Scalibregmidae

Scalibregma inflatum

Serpulidae

Eupomatus gracilis

Sigalionidae

*Pholoe glabra**Sthenelais verruculosa**Sthenelanelia uniformis*

Sphaerodoridae

Sphaerodorum sphaerulifer

Spionidae

10

*Boccardia hamata**Boccardia* sp.*Caraziella califia*

("Pseudopolydora n.gen.")

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POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>				
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)		30	10	48
<i>Polydora bioceipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>			10	128
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	1240		100	1088
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>				
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)				
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>				
<i>Scolecopsis acuta</i>				16
<i>Spiophanes berkeleyorum</i>				
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>		10	10	
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.		10		
Terrebellidae				
<i>Amaeana occidentalis</i>				
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>				
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>			20	
<i>Caprella</i> sp.				

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ARTHROPODA CRUSTACEA (cont.)

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
Amphipoda-Gammaridea		20		
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphorus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida	20			
Copepoda-Cyclopoida		10		16
<i>Clausidium vancouverense</i>				
Copepoda-Harpacticoida	480			
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>				
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

Macrura

Callinassidae

Callinassa sp.*Upogebia* sp.

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Murra* sp.*Serolis carinata**Serolis* sp.

Mysidacea

Ostracoda

Cylindroleberdinae

*Euphilomedes carcharodonta**Philomedes* sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

BRACHIPODA

Glottidia albida

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BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

*?Stylatula elongata**Virgularia* nr. *reimwardi*

Ceriantharia

Botrucnidifer sp.*Pachycerianthus* sp.

Hydrozoa - Hydroida

*Bimeria robusta**Corymorpha aurata**Obelia dichotoma*

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

*Amphiodia ?occidentalis**Amphiodia urtica**Amphiodia* sp. (juv.)

ECHIUURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

*Acteocina culcitella**Acteocina harpa**Aglaja ocelligera*

20

70

40

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MOLLUSCA (cont.)

Cephalaspidea (cont.)

Aglaja sp.
Cylichna diegensis
Gastropteron pacificum
Retusa sp.
Rictaxis punctocaelatus
Sulcoretusa sp.
Volvulella ?cylindrica
Volvulella panamica
Volvulella sp.

Pyramidellida

Odostomia sp.
Turbonilla sp.

Prosobranchia

Mesogastropoda

Caecidae

Caecum sp.
Fartulum sp.

Calyptraeidae

Crepidula dorsata
 (= *Crepipatella lingulata*)
Crepidula sp.

Naticidae

Neverita reclusiana

Vitrinellidae

Vitrinella oldroydi

Neogastropoda

Nassariidae

Nassarius fossatus
Nassarius mendicus
Nassarius perpinguis

Olividae

Olivella baetica

Turridae

Kurtziella plumbea

Pelecypoda (juv.)

20

100

32

Cardiidae

Laevicardium substriatum

Cooperellidae

Cooperella subdiaphana

Corbulidae

Corbula luteola

Corbula sp.

Hiatellidae

Hiatella arctica

Kelliidae

?*Bornia* sp.

Leptonidae

"*Lepton meroeum*"

Lucinidae

Lucina nuttalli

Parvilucina tenuisculpta

(= *Parvilucina* sp.)

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MOLLUSCA (cont.)

Pelecypoda (cont.)

Lyonsiidae

Lyonsia californica

Mactridae

Mactra californica

10

Spisula sp.*Tresus nuttalli*

Montacutidae

*Mysella grippi**Mysella pedroana**Mysella* sp.

Myidae

*Cryptomya californica**Platydon cancellatus*

Mytilidae

10

*Crenella divaricata**Crenella* sp.*Magacrenella columbiana*

Nuculanidae

Nuculana sp.

Pandoridae

Pandora sp.

Pectinidae

Leptopecten latiauratus

Periplomatidae

Periploma planiusculum

Petricolidae

Petricola sp.

Psammobiidae

?Gari californica

Semelidae

*Cumingia californica**Theora lubrica*

Solecurtidae

*Tagelus californianus**Tagelus subteres*

Solenidae

*Ensis myrae**Siliqua lucida**Solen rosaceus**Solen sicarius**Solen* sp.

30

Tellinidae

*Leporimetis obesa**Macoma acolasta**Macoma carlottensis**Macoma indentata**Macoma nasuta**Macoma* sp. (juv.)*Tellina carpenteri**Tellina idae*

16

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	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				
<i>Tellina</i> sp. (juv.)				
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>				
Veneridae				
<i>Compsomyax subdiaphana</i>				
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA				20
PHORONIDA				
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.				30
<i>Phoronopsis</i> sp.				10
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

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ANNELIDA				
OLIGOCHAETA				
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>	10	100	20	16
<i>Amphicteis scaphobranchiata</i>		40	50	32
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	10			
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	230	780	1260	7456
<i>Notomastus tenuis</i>				
Chaetopteridae				
<i>Spiochaetopterus costarum</i>			10	32
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	20	10		
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	500	50	20	64
Cossuridae				
<i>Cossura candida</i>	2700	60	810	8736
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				16
Glyceridae				
<i>Glycera americana</i>		10		
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>				
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

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POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>		10		
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>			30	80
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				
Lumbrineridae				
<i>Lumbrineris</i> spp.	70	160	10	336
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>	10			
<i>Asychis</i> sp.				
<i>Axiiothella</i> sp.				
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caeccides</i>				
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	100	10	180	576
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	30	10		
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>		100		
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)			40	32
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>		10		
<i>Nothria</i> sp.				
<i>Omuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>				
Orbiniidae				
<i>Haploscoloplos elongatus</i>	40	10	20	160
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				16
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>		40		
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>	210	60	310	512
(= <i>Paraonis gracilis oculata</i>)				

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POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>			70	128
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>			10	
<i>Eteone californica</i>				
<i>Eteone dilatata</i>	10			112
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				16
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	10			64
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>	10			
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>				
<i>Harmothoe imbricata</i>				
<i>Harmothoe priops</i>				
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.	10			16
<i>Euchone incolor</i>			10	
<i>Eucone limnicola</i>		10		16
<i>Magelomma pigmentum</i>				
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				16
<i>Sthenelais verruculosa</i>				
<i>Sthenelanella uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

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	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>	10	20	20	32
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	30	40	70	32
<i>Polydora biocipitalis</i>			10	
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>				16
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	20	20	270	1056
<i>Prionospio heterobranchia</i>				
<i>Prionospio pygmaeus</i>		20	20	96
<i>Prionospio steenstrupi</i> (= <i>P.nr. malmgreni</i>)				
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>			10	
<i>Scolelepis acuta</i>		10		
<i>Spiophanes berkeleyorum</i>	10		10	
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	30	10	20	256
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>				
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>			10	464
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista ?disjuncta</i>				
<i>Pista fasciata</i>			20	16
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>	60		20	
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

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ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	20		120	
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				272
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Erichthonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphorus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida			10	
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>				
Copepoda-Harpacticoida				
Cumacea				96
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.	40			
<i>Diastylopsis tenuis</i>		10	10	
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>			60	
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae			10	
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION D3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.

20

Scleroplax granulata

100

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

16

Macura

Callianassidae

Callianassa sp.

10

10

20

Upogebia sp.

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

10

Ostracoda

Cylindroleberdinae

Euphilomedes carcharodonta

16

Philomedes sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

180

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION D3

6 Jan
197810 Apr
197810 Jul
197813 Oct
1978

BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

?*Stylatula elongata*
Virgularia nr. *reimwardi*

Ceriantharia

Botrucnidifer sp.
Pachycerianthus sp.

Hydrozoa - Hydroida

Bimeria robusta
Corymorpha aurata
Obelia dichotoma

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

Amphiodia ?occidentalis
Amphiodia urtica
Amphiodia sp. (juv.)

10

ECHIURA

Listriolobus peloides

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

16

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

Acteocina culcitella
Acteocina harpa
Aglaja ocelligera

10

16

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION D3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Cephalaspidea (cont.)				
<i>Aglaja</i> sp.				
<i>Cylichna diegensis</i>	10			
<i>Gastropteron pacificum</i>				
<i>Retusa</i> sp.				
<i>Rictaxis punctocaelatus</i>				
<i>Sulcoretusa</i> sp.				
<i>Volvulella ?cylindrica</i>				
<i>Volvulella panamica</i>				
<i>Volvulella</i> sp.				
Pyramidellida				
<i>Odostomia</i> sp.				
<i>Turbonilla</i> sp.	10			
Prosobranchia				
Mesogastropoda				
Caecidae				
<i>Caecum</i> sp.				
<i>Fartulum</i> sp.				
Calyptraeidae				
<i>Crepidula dorsata</i>				
(= <i>Crepipatella lingulata</i>)				
<i>Crepidula</i> sp.	10			
Naticidae				
<i>Neverita reclusiana</i>				
Vitrinellidae				
<i>Vitrinella oldroydi</i>				
Neogastropoda				
Nassariidae				
<i>Nassarius fossatus</i>				
<i>Nassarius mendicus</i>	30		10	16
<i>Nassarius perpunguis</i>				
Olividae				
<i>Olivella baetica</i>	80	110	160	144
Turridae				
<i>Kurtziella plumbea</i>				
Pelecypoda (juv.)				
Cardiidae				
<i>Laevicardium substriatum</i>				
Cooperellidae				
<i>Cooperella subdiaphana</i>			50	
Corbulidae				
<i>Corbula luteola</i>				
<i>Corbula</i> sp.				
Hiatellidae				
<i>Hiatella arctica</i>				
Kelliidae				
? <i>Bornia</i> sp.				
Leptonidae				
" <i>Lepton meroeum</i> "	10			
Lucinidae				
<i>Lucina nuttalli</i>		30		
<i>Parvilucina tenuisculpta</i>	10	20	20	
(= <i>Parvilucina</i> sp.)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION D3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>			10	
Macluridae			20	
<i>Maclura californica</i>		10		
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				48
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>		10		
<i>Mysella</i> sp.				
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>				
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Cumingia californica</i>				
<i>Theora lubrica</i>		10		
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				16
<i>Siliqua lucida</i>				
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>			10	
<i>Solen</i> sp.	10			
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>	10			16
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)			20	
<i>Tellina carpenteri</i>				
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION D3

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>		50	50	64
<i>Tellina</i> sp. (juv.)		90	20	
Thraciidae				
<i>Thracia curta</i>				
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>			10	
Veneridae				
<i>Compsomyax subdiaphana</i>	10			
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)	20		60	48
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)				
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	500	40	10	80
PHORONIDA	10	20		
<i>Phoronis pallida</i>				
<i>Phoronis</i> sp.			10	64
<i>Phoronopsis</i> sp.				16
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION D10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ANNELIDA				
OLIGOCHAETA				
POLYCHAETA				
Ampharetidae				
<i>Amage scutata</i>				
<i>Ampharete labrops</i>				
<i>Amphicteis scaphobranchiata</i>	10			
<i>Melinna oculata</i>				
Arabellidae				
<i>Arabella</i> sp.				
<i>Drilonereis falcata</i>				
Capitellidae				
? <i>Anotomastus gordioides</i>				
<i>Capitella capitata</i>	30	10		10
<i>Dasybranchus</i> sp.				
<i>Decamastus</i> sp.				
<i>Mediomastus acutus</i>				
<i>Mediomastus californiensis</i> (= <i>Capitita ambiseta</i>)	1370	3210	810	4940
<i>Notomastus teruis</i>				
Chaetopteridae				
<i>Spiochaetopterus costarum</i>				
Cirratulidae				
<i>Caulleriella alata</i>				
<i>Chaetozone corona</i>	160	120		20
<i>Chaetozone setosa</i>				
<i>Cirratulus cirratus</i>				
<i>Cirriformia luxuriosa</i>				
<i>Tharyx</i> sp.	1410	690	370	330
Cossuridae				
<i>Cossura candida</i>	640	3300	2650	3980
Dorvilleidae				
"branchiate dorvilleid"				
<i>Meiodorvillea</i> sp.				
<i>Ophryotrocha puerilis</i>				
<i>Schistomeringos longicornis</i>				70
Eunicidae				
<i>Marphysa belli oculata</i>				
<i>Marphysa disjuncta</i>				
Flabelligeridae				
<i>Pherusa capulata</i>				
Glyceridae				
<i>Glycera americana</i>	20	10	20	
<i>Glycera capitata</i>				
<i>Glycera convoluta</i>				
<i>Glycera gigantea</i>				
<i>Glycera robusta</i>				
<i>Glycera rouxii</i>		10		
<i>Glycera</i> sp. (juv.)				
Goniodidae				
<i>Glycinde armigera</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION D10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Goniodidae (cont.)				
<i>Goniada brunnea</i>	60			
<i>Goniada littorea</i>				
<i>Goniada</i> sp. (juv.)				
Hesionidae				
<i>Gyptis brevipalpa</i>		50	80	50
<i>Gyptis brunnea</i>				
<i>Ophiodromus pugettensis</i>				10
Lumbrineridae				
<i>Lumbrineris</i> spp.	140	30	60	40
Magelonidae				
<i>Magelona pacifica</i>				
<i>Magelona pitelkai</i>				
Maldanidae				
<i>Asychis disparidentata</i>	80			
<i>Asychis</i> sp.				
<i>Axiothella</i> sp.		100		
Nephtyidae				
<i>Aglaophamus dicirris</i>				
<i>Nephtys caecoides</i>	20			10
<i>Nephtys californiensis</i>				
<i>Nephtys cornuta franciscana</i>	20	110	110	30
<i>Nephtys ferruginea</i>				
Nereidae				
"epitokus nereid"				
<i>Neanthes arenaceodentata</i>				
<i>Nereis procera</i>	40	20	10	
<i>Nereis</i> sp. (juv.)				
Onuphidae				
<i>Diopatra ornata</i>				
<i>Diopatra splendidissima</i>				
<i>Diopatra tridentata</i>				
<i>Diopatra</i> sp. (juv.)	10			
<i>Nothria elegans</i>				
<i>Nothria iridescens</i>				
<i>Nothria</i> sp.				
<i>Onuphis nebulosa</i>				
Opheliidae				
<i>Armandia bioculata</i>	190			60
Orbiniidae				
<i>Haploscoloplos elongatus</i>	140	90	40	20
Oweniidae				
<i>Owenia collaris</i>				
Paraonidae				
<i>Acesta catherinae</i>				
<i>Acesta cerrutii</i>				
<i>Acesta horikoshii</i>	10	10		
<i>Acesta</i> sp.				
<i>Aricidea wassi</i>				
<i>Tauberia oculata</i>				
(= <i>Paraonis gracilis oculata</i>)				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION D10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Pectinariidae				
<i>Pectinaria californiensis</i>	30	10	40	
Phyllodocidae				
<i>Anaitides</i> nr. <i>papillosa</i>				
<i>Eteone californica</i>				
<i>Eteone dilatata</i>				
<i>Eteone</i> sp.				
<i>Eumida bifoliata</i>				
<i>Eumida sanguinea</i>				
<i>Phyllodoce</i> sp.				
Pilargiidae				
<i>Ancistrosyllis hamata</i>				
<i>Pilargis berkeleyi</i>				
<i>Sigambra tentaculata</i>	240	250	190	40
Poecilochaetidae				
<i>Poecilochaetus johnsoni</i>		10		
<i>Poecilochaetus</i> sp. (branchiate)				
Polynoidae				
<i>Halosydna johnsoni</i>		10	20	
<i>Harmothoe imbricata</i>	10	10		10
<i>Harmothoe priops</i>	10	20		
<i>Harmothoe scriptoria</i>				
<i>Harmothoe</i> sp.				
Polyodontidae				
<i>Polyodontes ?panamensis</i>				
<i>Polyodontes</i> sp.				
Sabellariidae				
<i>Phragmatopoma californica</i>				
<i>Sabellaria cementarium</i>				
Sabellidae				
<i>Chone gracilis</i>				
<i>Chone veleronis</i>				
<i>Chone</i> sp.				
<i>Euchone incolor</i>		10		30
<i>Eucone limnicola</i>				
<i>Magelomma pigmentum</i>	1140	1350	250	10
<i>Mixicola infundibulum</i>				
Scalibregmidae				
<i>Scalibregma inflatum</i>				
Serpulidae				
<i>Eupomatus gracilis</i>				
Sigalionidae				
<i>Pholoe glabra</i>				
<i>Sthenelais verruculosa</i>				
<i>Sthenelanella uniformis</i>				
Sphaerodoridae				
<i>Sphaerodorum sphaerulifer</i>				
Spionidae				
<i>Boccardia hamata</i>				
<i>Boccardia</i> sp.				
<i>Caraziella califia</i>				
(="Pseudopolydora n.gen.")				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION D10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
POLYCHAETA (cont.)				
Spionidae (cont.)				
<i>Laonice cirrata</i>				
<i>Paraprionospio pinnata</i> (= <i>Prionospio pinnata</i>)	20	50		
<i>Polydora biocipitalis</i>				
<i>Polydora caulleryi</i> (= <i>P. brachycephala</i>)				
<i>Polydora ligni</i>	20	10	40	20
<i>Polydora limicola</i>				
<i>Polydora socialis</i>				
<i>Polydora</i> sp.				
<i>Prionospio cirrifera</i>	960	560	1650	7320
<i>Prionospio heterobranchia</i>	90	10	50	10
<i>Prionospio pygmaeus</i>				
<i>Prionospio steenstrupi</i> (= <i>P. nr. malmgreni</i>)				
<i>Prionospio</i> sp.				
<i>Pseudopolydora paucibranchiata</i>	10	10		80
<i>Scoelelepis acuta</i>	20	20		
<i>Spiophanes berkeleyorum</i>		10		
<i>Spiophanes bombyx</i>				
<i>Spiophanes missionensis</i>	20		10	
<i>Streblospio benedicti</i>				
Sternaspidae				
<i>Sternaspis fossor</i>				
Syllidae				
<i>Brania</i> sp.				
<i>Exogone lourei</i>				
<i>Exogone verrugera</i>				
<i>Exogone</i> sp.				
? <i>Langerhansia</i> sp.				
<i>Sphaerosyllis californiensis</i>	140			
<i>Typosyllis</i> sp.				
Terrebellidae				
<i>Amaeana occidentalis</i>	10			
? <i>Amage</i> sp.				
<i>Loimia medusa</i>				
<i>Lysippe labiata</i>				
<i>Pista</i> ? <i>disjuncta</i>				120
<i>Pista fasciata</i>				
<i>Pista</i> sp. (juv.)				
<i>Streblosoma crassibranchia</i>		390	90	10
Trichobranchidae				
<i>Terebellides stroemi</i>				
ARTHROPODA CRUSTACEA				
Amphipoda-Caprellidea				
Caprellidae				
<i>Caprella equilibra</i>				
<i>Caprella</i> sp.				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION D10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
ARTHROPODA CRUSTACEA (cont.)				
Amphipoda-Gammaridea	30	40	70	70
<i>Ampelisca cristata</i>				
<i>Ampelisca</i> sp.				
<i>Amphideutopus oculatus</i>				
<i>Argissa hamatipes</i>				
<i>Corophium acherusicum</i>				
<i>Eriethonius brasiliensis</i>				
<i>Listriella goleta</i>				
<i>Monoculodes</i> sp.				
<i>Paraphoxus</i> sp.				
<i>Photis</i> sp.				
Copepoda-Canaloida		10		
Copepoda-Cyclopoida				
<i>Clausidium vancouverense</i>		330	310	120
Copepoda-Harpacticoida				
Cumacea				
Bodotriidae				
<i>Cyclaspis</i> sp.				
Diastylidae				
<i>Diastylis</i> sp.				
<i>Diastylopsis tenuis</i>				
<i>Leptostylus</i> sp. A				
<i>Leptostylus</i> sp. B				
<i>Leptostylus</i> sp.				
<i>Oxyurostylus pacifica</i>			10	30
Lampropidae				
<i>Hemilamprops californica</i>				
Nannastacidae				
<i>Campylaspis</i> sp. C				
<i>Campylaspis</i> sp.				
<i>Cumella</i> sp.				
Decapoda				
decapod zoea larvae				
Brachyura				
Cancridae				
<i>Cancer</i> sp.				
Grapsidae				
<i>Hemigrapsus oregonensis</i>				
Leucosiidae				
<i>Randallia ornata</i>				
Majidae				
<i>Pyromaia tuberculata</i>				
Parthenopidae				
<i>Heterocrypta occidentalis</i>				
Pinnotheridae				
<i>Opisthopus transversus</i>				
<i>Pinnixa franciscana</i>				
<i>Pinnixa littoralis</i>				
<i>Pinnixa longipes</i>				
<i>Pinnixa schmitti</i>				
<i>Pinnixa transversus</i>				

HARBORS ENVIRONMENTAL PROJECTS
 BENTHIC DATA

STATION D10

 6 Jan 10 Apr 10 Jul 13 Oct
 1978 1978 1978 1978

ARTHROPODA CRUSTACEA (cont.)

Decapoda (cont.)

Brachyura (cont.)

Pinnotheridae (cont.)

*Pinnixa tubicola**Pinnixa* sp.*Scleroplax granulata*

30

200

10

520

250

Caridea

Alpheidae

*Alpheus californiensis**Betaeus ensenadensis**Betaeus harrimani**Betaeus ?longidactylus**Betaeus* sp.

20

10

10

10

Crangonidae

Crangon ?nigromaculata

Hippolytidae

Heptacarpus sp.

10

Macrura

Callinassidae

Callinassa sp.*Upogebia* sp.

70

120

140

100

Isopoda

*Gnathia crenulatifrons**Gnathia* sp.*Munna* sp.*Serolis carinata**Serolis* sp.

Mysidacea

90

10

Ostracoda

Cylindroleberdinae

*Euphilomedes carcharodonta**Philomedes* sp.*Rutiderma rostrata**Sarsiella* sp.*Scleroconcha* sp.

Tanaidacea

Leptochelia sp.

Thoracica (barnacle)

*Balanus tintinnabulum californicus**Balanus* sp.

ARTHROPODA PYCNOGONIDA

*Anoplodactylus erectus**Callipallene californiensis*

ASCHELMINTHES

Nematoda

10

BRACHIOPODA

Glottidia albida

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION D10

6 Jan
1978

10 Apr
1978

10 Jul
1978

13 Oct
1978

BRYOZOA (=ECTOPROCTA)

Bowerbankia gracilis
Bugula neritina

CHAETOGNATHA

CHORDATA

Osteichthys

Gobiidae (larvae)
Clevelandia ios

10

Urochordata

Ascidacea

CNIDARIA (=COELENTERATA)

Anthozoa

Actinaria

Diadumene sp.

Edwardsiidae

Edwardsia nr. *sipunculoides*
Isoedwardsia sp. A

Pennatulacea

*?Stylatula elongata**Virgularia* nr. *reinwardi*

Ceriantharia

Botrucnidifer sp.*Pachycerianthus* sp.

10

10

Hydrozoa - Hydroida

*Bimeria robusta**Corymorpha aurata**Obelia dichotoma*

10

ECHINODERMATA

Holothuroidea

Leptosynapta albicans

Ophiuroidea (juv.)

*Amphiodia ?occidentalis**Amphiodia urtica**Amphiodia* sp. (juv.)

ECHIURA

Listriolobus pelocles

ENTOPROCTA

Barentsia discreta

HEMICHORDATA

Enteropneusta

MOLLUSCA

Gastropoda

Ophisthobranchia

Cephalaspidea

*Acteocina culcitella**Acteocina harpa**Aglaja ocelligera*

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION D10

6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
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MOLLUSCA (cont.)

Cephalaspidea (cont.)

Aglaja sp.
Cylichna diegensis
Gastropteron pacificum
Retusa sp.
Rictaxis punctocaelatus
Sulcoretusa sp.
Volvulella ?cylindrica
Volvulella panamica
Volvulella sp.

Pyramidellida

Odostomia sp.
Turbonilla sp.

Prosobranchia

Mesogastropoda

Caecidae

Caecum sp.
Fartulum sp.

Calyptraeidae

Crepidula dorsata
 (= *Crepipatella lingulata*)
Crepidula sp.

Naticidae

Neverita reclusiana

Vitrinellidae

Vitrinella oldroydi

10

Neogastropoda

Nassariidae

Nassarius fossatus
Nassarius mendicus
Nassarius perpunguis

Olividae

Olivella baetica

Turridae

Kurtziella plumbea

Pelecypoda (juv.)

Cardiidae

Laevicardium substriatum

Cooperellidae

Cooperella subdiaphana

Corbulidae

Corbula luteola
Corbula sp.

Hiatellidae

Hiatella arctica

30

Kelliidae

?*Bornia* sp.

Leptonidae

"*Lepton meroeum*"

Lucinidae

Lucina nuttalli
Parvilucina tenuisculpta
 (= *Parvilucina* sp.)

10

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION D10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Lyonsiidae				
<i>Lyonsia californica</i>				
Mactridae				
<i>Mactra californica</i>				
<i>Spisula</i> sp.				
<i>Tresus nuttalli</i>				
Montacutidae				
<i>Mysella grippi</i>				
<i>Mysella pedroana</i>				
<i>Mysella</i> sp.		10		
Myidae				
<i>Cryptomya californica</i>				
<i>Platydon cancellatus</i>		50	150	150
Mytilidae				
<i>Crenella divaricata</i>				
<i>Crenella</i> sp.				
<i>Magacrenella columbiana</i>				
Nuculanidae				
<i>Nuculana</i> sp.				
Pandoridae				
<i>Pandora</i> sp.				
Pectinidae				
<i>Leptopecten latiauratus</i>				
Periplomatidae				
<i>Periploma planiusculum</i>				
Petricolidae				
<i>Petricola</i> sp.				
Psammobiidae				
? <i>Gari californica</i>				
Semelidae				
<i>Ciomingia californica</i>				
<i>Theora lubrica</i>	30	200	70	60
Solecurtidae				
<i>Tagelus californianus</i>				
<i>Tagelus subteres</i>				
Solenidae				
<i>Ensis myrae</i>				
<i>Siliqua lucida</i>			10	
<i>Solen rosaceus</i>				
<i>Solen sicarius</i>				
<i>Solen</i> sp.		10		
Tellinidae				
<i>Leporimetis obesa</i>				
<i>Macoma acolasta</i>		10	20	
<i>Macoma carlottensis</i>				
<i>Macoma indentata</i>				
<i>Macoma nasuta</i>				
<i>Macoma</i> sp. (juv.)	10			10
<i>Tellina carpenteri</i>		20	60	10
<i>Tellina idae</i>				

HARBORS ENVIRONMENTAL PROJECTS
BENTHIC DATA

STATION D10

	6 Jan 1978	10 Apr 1978	10 Jul 1978	13 Oct 1978
MOLLUSCA (cont.)				
Pelecypoda (cont.)				
Tellenidae (cont.)				
<i>Tellina modesta</i>				10
<i>Tellina</i> sp. (juv.)				
Thraciidae				
<i>Thracia curta</i>	10			
Thasiridae				
<i>Axinopsida serricata</i>				
<i>Thyasira flexuosa</i>		10		
Veneridae				
<i>Compsomyx subdiaphana</i>				
<i>Protothaca staminea</i>				
<i>Protothaca</i> sp. (juv.)				30
<i>Saxidomus nuttali</i>				
<i>Saxidomus</i> sp. (juv.)			10	40
Scaphopoda				
<i>Cadulus fusiformis</i>				
NEMERTEA	60	70		80
PHORONIDA				
<i>Phoronis pallida</i>				100
<i>Phoronis</i> sp.				10
<i>Phoronopsis</i> sp.				
PLATYHELMINTHES				
Polycladia				
PROTOZOA				
Foraminifera				

B577

SETTLING RACK ORGANISMS

(MEROPLANKTON)

LOS ANGELES AND LONG BEACH HARBORS

DECEMBER 1977 - DECEMBER 1978

December 1977-December 1978 STATION A1 p.1 of. 6

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SETTLING RACK DATA													
ANNELIDA POLYCHAETA													
Aphareteidae													
<i>Apharete labrops</i>													
Capitellidae													
<i>Capitella capitata</i>													
Chrysopetalidae													
<i>Palaemonus helix</i>	1	2			2	12			56				
Cirratulidae													
<i>Cautieria biculata</i>													
<i>Chaetone coronata</i>													
<i>Dodecaeria concharum</i>													
<i>Tharyx</i> sp.													
Ctenodrilidae			4										
<i>Ctenodrilus serratus</i>											1		
Dorvilleidae													
<i>Ophryotrocha puerilis</i>													
<i>Schistomeringos longicornis</i>													
Hesionidae													
<i>Ophiodromus pugettensis</i>													
Nereidae													
<i>Neanthes arenaeodentata</i>													
<i>Platynereis bicantaliculata</i>	7	26	7	50	62	16	4	4	12	8	1	2	
Opheliidae													
<i>Armadia biculata</i>													
<i>Polyopthalmus pictus</i>	29												
Phyllodoctidae													
<i>Eulalia</i> sp.													
<i>Eulalia bifoliata</i>													
<i>Burda sanguinea</i>				1									
Polynoidae													
<i>Halosydna brevisetosa</i>				2									
<i>Halosydna johnsoni</i>													
<i>Harporhoe tmbriata</i>													
Sabellariidae													
<i>Sabellaria alcocki</i>													
Sabellidae													
<i>Chone ecaudata</i>													
<i>Chone</i> sp.													
Serpulidae													
<i>Exopontus gracilis</i>													
<i>Hydroides pacificus</i>	19		1							4		1	3

STATION A1 Page 4 of 6

SAMPLING BACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Munidae													
<i>Munna</i> sp.													
Sphaeromatidae					2								
<i>Purporeoidea oculipta</i>													1
Mysidacea (mysids)				1	2	4							
Ostracoda										4			
Tanaidacea													
<i>Analanis normani</i>						6						1	
<i>Leptochelia dubia</i>													
<i>Leptochelia</i> sp.													
Thoracica (Barnacles)	3				6								
<i>Lilanus amphitrite</i>													
<i>Bilanus tintinnabulum</i>	4			2									
<i>Citharus fissus</i>													
ARTHROPODA INSECTA													
ARTHROPODA PYCNOGONIDA	23	24	18	8	28	50	8	8	28	112	12	1	4
ASCHELMINTHES NEMATODA													
BRYOZOA†													
Cheilostomata													
Actidae													
<i>Astea anguina</i>													
Bicellariellidae													
<i>Bugula meritima</i>													
* <i>Bugula stolonifera</i>													
Celleporinidae													
* <i>Celleporaria brunnea</i>													
Cheileporinidae													
<i>Cyrtosula pallasiama</i>													
<i>Watersipora arcuata</i>													
Hipposithoidae													
<i>Hippothoa hyalina</i>	1												
Membraniporidae													
<i>Cynopeva reticulatum</i>													
* <i>Membranipora isabelliana</i>	5	4		9		1			6	1			
<i>Membranipora membranacea</i>													
<i>Membranipora serrilamella</i>													
<i>Membranipora tuii rosulata</i>	1	1											
Microsirellidae													
<i>Fenestrulina majusi</i>													

*Taxonomic notes:
Bugula stolonifera formerly *B. californiana*; *Celleporaria brunnea* formerly *Holoporella brunnea*; *Membranipora isabelliana* formerly *M. villosa*.
† Numbers indicate colonies.

SETTLING RACK DATA	December 1977-December 1978												STATION A2		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Page 3 of 6	
Isanidae								4			28	9	12		
<i>Cammaropsis thompsoni</i>															
<i>Megamphopus effrenus</i>															
<i>Megamphopus mirtensis</i>															
<i>Pholis</i> sp.															
Ischyroceridae															
<i>Ischyrocerus</i> sp.	616	304	395	2820	2992		1264	1100	1632	1817	971	2044			
<i>Jassa falcata</i>															
<i>Microjassa litotes</i>															
Leucothoidae															
<i>Leucothos alata</i>															
Pleustidae															
<i>Parapleustes</i> sp.															
Podoceridae	106	72	77	688	12		68	44	208	1226	395	948			
<i>Podocerus brasiliensis</i>															
<i>Podocerus cristatus</i>															
Stenothoidae	84	43	35	180	88		208	140	672	214	107				
<i>Stenothos vaيدا</i>	193	390	524	992	1244		1052	2528	800	895	368	724			
Copepoda															
Cumacea															
Decapoda															
decapod larvae (scud)															
Brachyura (crabs)															
brachyura larvae															
Grapsidae															
<i>Hemigrapsus oregonensis</i>															
Majidae															
<i>Loxorhynchus</i> sp.															
Caridea (shrimp)															
shrimp larvae															
Isopoda															
Anthuridae															
<i>Paranthura elegans</i>															
Iantridae															
<i>Iantropis</i> sp.															
Jaeropsidae															
<i>Jaeropsis</i> sp.															
Limnoriidae															
<i>Limnoria tripunctata</i>											1	2			

SETTLING RACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA													
Ampharetidae													
<i>Ampikarets labrops</i>													
Capitellidae													
<i>Capitella capitata</i>													
Chrysopetalidae													
<i>Palaeomonetus bellii</i>				1		8	80	12	18			1	
Cirratulidae													
<i>Caulierisella biconvoluta</i>													10
<i>Chaetosome corona</i>													
<i>Dodecacera concharum</i>													
<i>Tharyx</i> sp.													
Ctenodrilidae	2												
<i>Ctenodrilus serratus</i>								8	4				5
Dorvilleidae													
<i>Ophryotrocha puerilis</i>													
<i>Schistomerungus longicornis</i>													
Hesionidae													
<i>Ophiotromus pugstensis</i>													
Nereidae													
<i>Neanthes arenosodentata</i>													
<i>Platynereis bicanaliculata</i>	16		6	110	20	31	16	8	13		4	4	6
Opheliidae													
<i>Armandia biconvoluta</i>						1		4	73				
<i>Polyopthalmus pictus</i>	18		1				8	64	2	89		119	
Phyllodoceidae													
<i>Eulalia</i> sp.													
<i>Eulalia bifoliata</i>													
<i>Eulalia elongata</i>													
Polynoidae													
<i>Naucydina brevisetosa</i>						2							
<i>Naucydina johnsoni</i>													
<i>Naucydina imbricata</i>													
Sabellariidae													
<i>Sabellaria aleoeki</i>													
Sabellidae													
<i>Chone ecaudata</i>													
<i>Chone</i> sp.													
Serpulidae													
<i>Eupomatus gracilis</i>													
<i>Hydroides panificus</i>	56		2		12	136	8	12	11	1	10	32	55

SETTLING RACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Isaeidae													
<i>Gammaropsis thompsoni</i>	2					2					3	8	1
<i>Megamphopus efferens</i>										7			
<i>Megamphopus maritima</i>													
<i>Pholis</i> sp.													
Ischyroceridae													
<i>Ischyrocerus</i> sp.													
<i>Jassa falcata</i>	4666		575	1832	6824	2275	5744	1512		1011	1220	891	1353
<i>Microjassa litorea</i>													
Leucothoidae													
<i>Leucothoe alata</i>													
Pleustidae													
<i>Purpuraeutes</i> sp.													
Podoceridae													
<i>Podocerus brasilianensis</i>	420		25	51	44	20	60	68		812	302	699	275
<i>Podocerus cristatus</i>													
Stenothoidae													
<i>Stenothoe nitida</i>	88		8	7	32	3	16	8		176	21	20	52
Copepoda	174		308	681	544	1128	1672	1744		1433	1064	289	950
Cumacea													
Decapoda													
decapod larvae (scud)													
Brachyura (crabs)													
brachyura larvae													
Grapsidae													
<i>Hemigrapsus chagomenseis</i>													
Nejidae													
<i>Loxorhynchus</i> sp.													
Caridea (shrimp)													
shrimp larvae													
Isopoda													
Anthuridae													
<i>Paranthura elegans</i>													
Isaniridae													
<i>Ianropsis</i> sp.													
Jeeroptidae													
<i>Jaeopopsis</i> sp.													
Limnoriidae													
<i>Limnoria tripunctata</i>	2												

SETTLING RACK DATA	STATION A3 Page 4 of 6												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Muridae												1	1
Murina sp.													
Sphaeromatidae													
Paracercaris sculpta										16			2
Mysidacea (mysids)			8	4	4								
Ostracoda													
Tanaidacea	68		11	7	4	5	20	18	306	95	23		16
Anatania normani													
Lepidochelia dubia													
Lepidochelia sp.						12						1	1
Thoracica (Barnacles)													
Balanus amphitrite	2												
Balanus tintinnabulum													
Cithamula fissus													
ARTHROPODA INSECTA			2	2	60	5	16	64	7	13			1
ARTHROPODA PHYCOGONIDA	60		5	15		56	96	340	286	43			3
ASCHELMINTHES NEMATODA													
BRYOZOA													
Chelostomata													
Actidae													
Aetea angulata													
Bicellariellidae													
Bugula neritina	5								1	1	1		
*Bugula stolonifera													
Celleporinidae													
*Celleporaria brunea													
Cheloporinidae													
Cryptosula pallastana													
Katersipora arcuata													
Hiproteoidea													
Hippothoa hyalina													
Membraniporidae													
Compelem reticulatum													
*Membranipora isabelliana													
Membranipora membranacea													
Membranipora serrilamella													
Membranipora sul. pulchra													
Microporellidae			1	1		1	1						
Panestrudinia malusi													

*Taxonomic notes:
 Bugula stolonifera formerly B. californica; Celleporaria brunea formerly Holoporella brunea; Membranipora isabelliana formerly M. villosa.
 # Numbers indicate colonies.

SETTLING RACK DATA

December 1977-December 1978 STATION A7 page 1 of 6

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA													
<i>Apharctiidae</i>													
<i>Ampharetis labrope</i>												11	10
<i>Capitellidae</i>	44	3	60	5	4		4						
<i>Capitella capitata</i>													
<i>Chrysopetalidae</i>	2				12	24	32	4	24	24			
<i>Palaenotus bellis</i>													
<i>Cirratulidae</i>													128
<i>Caulleriella bloomiata</i>													
<i>Chaetozona corona</i>													
<i>Dodecacerta conokham</i>													
<i>Tharyx</i> sp.													
<i>Ctenodrilidae</i>	38	34	16	4						8			
<i>Ctenodrilus serratus</i>													
<i>Dorvilleidae</i>		1											
<i>Ophryotrocha puerilis</i>													
<i>Schistomeringos longicornis</i>									4				
<i>Hesionidae</i>													
<i>Ophiodromus pugettensis</i>													
<i>Nereidae</i>													
<i>Neanthes arenaeodentata</i>	2	9	4	202	54	25	8	4		20	5	8	9
<i>Platynereis bicariniculata</i>													
<i>Opheliidae</i>	28	3			15	15		16	28	8	7	157	
<i>Armandia bioculata</i>							24	500	328	404	494	705	138
<i>Polychaetes pictus</i>	170	24	2		4		4				1	1	1
<i>Phyllodoceidae</i>													
<i>Eulalia</i> sp.													
<i>Eumida bifoliata</i>													
<i>Eumida sanguinea</i>				6	26	5	4		8	8	4	5	6
<i>Polynoidae</i>				28									
<i>Halosydna brevisetosa</i>		4											
<i>Halosydna johnsoni</i>													
<i>Ramothoe imbricata</i>													
<i>Sabellaridae</i>													
<i>Sabellaria alcocki</i>					4								
<i>Sabellidae</i>	8	6	1							8	4	27	12
<i>Chone caudata</i>													
<i>Chone</i> sp.													
<i>Serpulidae</i>													
<i>Rapamatus gracilis</i>													
<i>Hydroids pacificae</i>	24	7	6	18	64	111	16	12	4	36	8	67	86

STATION A7 page 2 of 6

	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Splonidae	22	22	1	1	20	10		12	8	32	7	1	44
<i>Polydora ligni</i>	8											8	19
<i>Polydora limicola</i>	4											11	6
<i>Polydora sortalis</i>													
<i>Priocrypta cirrifera</i>	4												
<i>Pseudopolydora paucibranchiata</i>	4	1	8	3	30	28	396	324	76	52	209	10	3
Spironchidae	6												
<i>Autolytus</i> sp.													
Terebellidae													
ANNELIDA OLIGOCHAETA													
ARTHIPODA CRUSTACEA													
Amphipoda													
Caprellidea													
Aeginellidae													
<i>Deutella californica</i>												1	
<i>Myerella barkata</i>													
Caprellidae									8			1	
<i>Caprella acanthogaster</i>		2	2	2	34	5	4			24	55	55	40
<i>Caprella californica</i>		3	2	3	30	98	36	48	236	516	33	13	1
<i>Caprella equituba</i>		6	2	6	108	29	108	344	1228	1509	148	25	38
<i>Caprella verrucosa</i>				1	492	131	152	116	1412	1976	475	72	33
<i>Caprella</i> sp.						2							
Gammaridea													
Amphilochoidea													
<i>Citampsis tilfordae</i>													
Amphithoidea													
<i>Amphithoe plumulosa</i>													
<i>Amphithoe</i> sp.													
Bateidae													
<i>Bata transversa</i>													
Cheluridae													
<i>Chelura terebrans</i>													
Corophiidae	602	605	621	816	1720	768	3384	848	1664	4976	2727	1219	2319
<i>Corophium acherusium</i>		2	2						4		1	2	9
<i>Eriothorus brasiliensis</i>													
<i>Grandidienella japonica</i>													
Gammaridae													
<i>Elaeopus rapax</i>													
<i>Maera similis</i>										20		11	

SETTLING BACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Isaeidae											37		55
<i>Camurropsis thompsoni</i>						1							
<i>Megamphopus effereus</i>													
<i>Megamphopus maritima</i>													
<i>Photia</i> sp.													
Ischyroceridae	4	85	182	1099	11878	6379	5432	1464	1132	384	140	390	457
<i>Ischyrocerus</i> sp.													
<i>Jassa jalcata</i>						2							
<i>Microjassa litorea</i>													
Leucothoidae													
<i>Leucothoe alata</i>													
Pleustidae													
<i>Harpicautus</i> sp.													
Podoceridae		1	10	16	58	61	224	8	36	384	578	379	757
<i>Podocerus brasiliensis</i>													
<i>Podocerus cristatus</i>													
Stenothoidae		4	2	5	6	34		12	4	64	43	76	59
<i>Stenothoe virida</i>													
Copepoda	1280	653	1243	1271	1486	1332	872	1092	6686	1852	1097	457	209
Cumacea													
Decapoda													
decapod larvae (zoae)		1				3							
Brachyura (crabs)													
brachyura larvae													
Grapsidae													
<i>Hemigrapsus oregonensis</i>								4					
Majidae													
<i>Lezorthynchus</i> sp.													
Caridea (shrimp)													
shrimp larvae													
Isopoda													
Anthuridae													
<i>Paranthura elegans</i>													
Janiridae													
<i>Janiropsis</i> sp.													
Jaeropsidae													
<i>Jaeropsis</i> sp.													
Limnoriidae													
<i>Limnoria tripunctata</i>						1						1	1

SETTLING RACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Munidae													
<i>Munza</i> sp.													
Sphaeromatidae; <i>Dynamenopsis dianda</i>										4			1
<i>Paraceroetes sculpta</i>													
Mysidacea (mysids)						1							
Cstracoda						34		16	8	60			7
Tanaidacea													
<i>Azatakia normani</i>													
<i>Leptochelia dubia</i>													
<i>Leptochelia</i> sp.													
Thoracica (Barnacles)													
<i>Balanus amphitrite</i>													
<i>Balanus tintinnabulum</i>													
<i>Chthamalus fissus</i>													
ARTHROPODA INSECTA													
ARTHROPODA PHYCOPHORA													
ASCHELMINTHES NEMATODA													
BRYOZOA #	76	35	117	119	94	146	148	332	704	1080	41	34	20
Cheilostomata													
Aetidae													
<i>Aetea angulata</i>													
Bicelliellidae													
<i>Bugula neritina</i>		1								1			5
<i>Bugula stolonifera</i>								2		6			
Cellenorinidae													
<i>Celleporaria brunnea</i>													
Cheiloporinidae													
<i>Cryptosula palliata</i>													
<i>Heterostipa arcuata</i>													
Rhipidothoidae													
<i>Hippothoa hyalina</i>													
Membraniporidae													
<i>Conopsea reticulatum</i>													
<i>Membranipora isabelleana</i>													
<i>Membranipora membranacea</i>													
<i>Membranipora serrilamella</i>													
<i>Membranipora tuberculata</i>													
Microporellidae													
<i>Parastralinia melusii</i>													

*Taxonomic notes:

Bugula stolonifera formerly *B. californica*; *Celleporaria brunnea* formerly *Holoporella brunnea*; *Membranipora isabelleana* formerly *M. vii-osa*.

Numbers indicate colonies.

SETTLING RACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Schizoporellidae													
<i>Submyovella uricomis</i>													
Scrupariidae													
<i>Scruparia umbiga</i>													
Thalamoporellidae													
<i>Thalamoporella californica</i>													
Ctenostomata													
Vesiculariidae													
<i>Boverbia gracilis</i>													
<i>Zoobrya verticillatum</i>													
Cylostomata													
Diastoporidae													
<i>Diastopora californica</i>													
tubuliporicae													
<i>Tubulipora tuba</i>													
CHORDATA													
Ascidacea													
Aplousobranchia													
<i>Diplosoma macdonaldi</i> (-pisoni)										0.01g	0.12g		<0.01g
Phlebobranchia													
<i>Ascidia californica</i>													
<i>Ciona intestinalis</i>	90	173	19	1	2	27	8	20	44	171	275	283	55
Stolidobranchia													
<i>Botryllus</i> sp.													
Osteichthys (fish larvae)													
Cnidaria													
Anthozoa (See anemones)													
Hydrozoa-hydrozoa													
Campanulariidae													
<i>Obelia</i> s.s.	<0.02g	1.37g	0.06g	2.45g	5.44g	0.39g	3.0g	2.64g	7.68g	1.68g	1.85g	0.44g	0.36g
Plumulariidae													
<i>Agiophenia</i> sp.											0.01g	0.01g	0.01g
Tubulariidae													
<i>Tubularia</i> sp.													
Echinodermata													
Asteroidea (Starfish)													
Echinozoa (Sea urchin)													
Ophiuroidea													

STATION AB Page 4 of 6

SETTLING BACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Munidae	132	13	28		94	10	20				16	8	4
<i>Munna</i> sp.													
Sphaeromatidae		1											
<i>Paraoeretes sculpta</i>								16	48				
Mysidacea (mysids)					338								
Ostracoda								264	176		88	28	
Tanaidacea	40	1	1		9	25	180						
<i>Axiatanaia noronhai</i>													
<i>Leptochelia dubia</i>													
<i>Leptochelia</i> sp.								4				10	
Thoracica (Barnacles)		1		2	8	16							
<i>Balanus amphitrite</i>													
<i>Balanus tintinnabulum</i>													
<i>Chthamalus fissus</i>													
ARTHROPODA INSECTA													
ARTHROPODA PYCNOGONIDA	1	1	1	8	12	6	44	8	8			28	4
<i>Bugula stolonifera</i>			21	11	203	67	268	164	84				12
ASCHELMINTHES NEMATODA	140	1											
BRYOZOA †													
Cheilostomata													
Aetidae													
<i>Aetea angulata</i>													
Bicellariellidae													
<i>Bugula neritima</i>													
* <i>Bugula stolonifera</i>	1						7	3	4				
Celleporinidae													
* <i>Celleporaria brunnea</i>													
Cheiloporinidae													
<i>Cryptosula pallasiana</i>													
<i>Materatpora arcuata</i>													
Hippothoidae													
<i>Hippothoa hyalina</i>													
Membraniporidae													
<i>Conopeum reticulatum</i>													
* <i>Membranipora isabelleana</i>													
<i>Membranipora membranacea</i>													
<i>Membranipora serrilamella</i>		1											
<i>Membranipora tuberculata</i>													
Microporrellidae													
<i>Porestrophia maluae</i>													
Taxonomic notes:													
* <i>Bugula stolonifera</i> formerly <i>B. canaliculata</i> ; <i>Celleporaria brunnea</i> formerly <i>Holoporella brunnea</i> ; <i>Membranipora isabelleana</i> formerly <i>M. villosa</i> .													
† Numbers indicate colonies.													

SETTLING RACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Schizoporellidae													
<i>Schizoporella unicomis</i>								1		1			
Scrupariidae													
<i>Scruparia ambigua</i>													
Thalamoporellidae													
<i>Thalamoporella californica</i>													
Ctenostomata													
Vesiculariidae													
<i>Roobornia gracilis</i>													
<i>Zoobotryon verticillatum</i>													
Cylostomata													
Diatropidae													
<i>Diaperoia californica</i>													
Tubuliporiidae													
<i>Tubulipora tuba</i>													
CHORDATA													
Asciacea													
Apousobranchia													
<i>Diplosoma macdonaldi</i> (-pisani)		0.07g	0.01g			0.05g		0.16g	0.04g	<0.04g	0.04g	0.04g	0.48g
Phlebobranchia													
<i>Ascidia californica</i>	428	1123	96	7		7		76	184	684	936	548	296
<i>Clona inestimalis</i>													
Stolidobranchia													
<i>Botryllus</i> sp.				<0.01g									
Osteichthys (Fish Larvae)													
CNIDARIA													
Anthozoa (Sea anemones)	4									4			
Hydrozoa-hydroida													
Campulariidae													
<i>Ophelia</i> sp.	0.36g	0.14g	0.23g	0.93g		0.01g		2.80g	7.60g	0.24g	<0.04g	0.04g	0.33g
Plumulariidae													
<i>Aglaophenia</i> sp.													
Tubulariidae													
<i>Tubularia</i> sp.		0.03g	0.03g	0.05g		0.15g		0.06g				<0.04g	
ECHINODERMATA													
Asteroida (Starfish)													
Echinoidea (Sea urchin)													
Ophiuroidea													

SETTLING RACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	JUL	Aug	Sep	Oct	Nov	Dec
FORAMINIFERA													
MOLLUSCA				6									
Gastropoda													
Acanthidae (limpets)													
Athyidae													
<i>Raminoz</i> sp.													
Bullidae													
<i>Bulla gouldiana</i>													
Calyptraeidae						4							
<i>Crepidula onyx</i>						18							
<i>Crepidula</i> sp.						17							
Columbellidae													
<i>Mitrella carinata</i>	44	21	5	71		56		60	4				
Hadibranchia						24		16					
<i>Dendronotus</i> sp.	160		1	234		144							
Palaeocyprida													
Histellidae						8							
<i>Hiatella arctica</i>						20		40	16	12	16		
Myciidae		14	5		1094								
<i>Mitius edulis</i>						1							
Pectinidae		61	133										
<i>Leptopecten latiauritus</i>													
Veneridae													
<i>Chione</i> sp.													
NEREIDEA													
PLATYHELMINTHES													
Turbellaria						3							
Polycladia	52	5				20		32	64	96	12	24	
PORIFERA													
"Vase sponge"													
PLANTS-Total wet weight all plants	0.12g	<0.01g	<0.01g	0.03g	0.01g	2.396g		1.32g	<0.04g	0.08g	<0.04g	0.04g	0.04g
CHLOROPHYCOPHYTA CHLOROPHYCEAE													
Cladophorales													
<i>Chaetomorpha</i> sp.													
Uveales													
<i>Enteromorpha</i> sp.													
<i>Ulva</i> sp.													
CHRYCOPHYCOPHYTA BACILLARIOPHYCEAE													
Filamentous diatoms													
PHAEOPHYCOPHYTA PHAEOPHYCEAE													
Ectocarpales-Ectocarpus sp.													
RHODOPHYCOPHYTA FLORIDOPHYCEAE													
Ceratales- <i>Polysiphonia</i> sp.	<0.01g			<0.01g		2.0g		0.92g					

SETTLING RACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA													
<i>Nepheleidae</i>													
<i>Ampharete labrops</i>													
<i>Capitellidae</i>								4					
<i>Capitella capitata</i>													
<i>Chrysopetalidae</i>								8	80				
<i>Palaemonetus bellis</i>													
<i>Cirratulidae</i>													
<i>Caulleriella bicoumata</i>													
<i>Chaetozona corona</i>													
<i>Dodecacera concharum</i>													
<i>Tharyx</i> sp.													
<i>Ctenodrilidae</i>													
<i>Ctenodrilus serratus</i>													
<i>Dorvilleidae</i>													
<i>Ophryotrocha puerilis</i>													
<i>Schistostomus longicornis</i>													
<i>Naisidae</i>													
<i>Ophiodromus pugetensis</i>													
<i>Nereidae</i>													
<i>Neunthes arenacodentata</i>													
<i>Platynereis bicamaliculata</i>													
<i>Opheliidae</i>													
<i>Armandia bicoumata</i>							20		16	56		4	4
<i>Polyopthalmus pictus</i>							4		4				
<i>Phyllodoceidae</i>							24		16	48	64	20	16
<i>Eulalia</i> sp.													
<i>Eumida bifoliata</i>													
<i>Eumida sanguinea</i>													
<i>Polynoidae</i>								4	12				
<i>Halosydna brevisetosa</i>													
<i>Halosydna johnsoni</i>													
<i>Harmothoe imbricata</i>													
<i>Sabellariidae</i>													
<i>Sabellaria alcocki</i>													
<i>Sabellidae</i>													
<i>Chone caudata</i>													
<i>Chone</i> sp.												28	
<i>Serpulidae</i>													
<i>Eupomatia gracilis</i>													
<i>Hydroides pacificus</i>							8		4	16			8

SETTLING RACK DATA	STATION A13 page 3 of 6												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Isaeidae													
<i>Cambaropsis thompsoni</i>													
<i>Megamphopus efferens</i>													
<i>Megamphopus mantasia</i>													
<i>Photis</i> sp.													
Ischyroceridae													
<i>Ischyrocerus</i> sp.													
<i>Isaea falcata</i>													
<i>Microjassa titates</i>													
Leucothoidae													
<i>Leucothos alata</i>													
Pleustidae													
<i>Pleustetes</i> sp.													
Podoceridae													
<i>Podocerus brastienais</i>													
<i>Podocerus cristatus</i>													
Stenothoidae													
<i>Stenothos valida</i>													
Copepoda													
Cumacea													
Decapoda													
Decapod larvae (zoaea)													
Brachyura (crabs)													
brachyura larvae													
Grapsidae													
<i>Hemigrapsus oregonensis</i>													
Majidae													
<i>Loxomysidius</i> sp.													
Caridea (shrimp)													
shrimp larvae													
Isopoda													
Anthuridae													
<i>Paranthura elegans</i>													
Ianiridae													
<i>Ianiropsis</i> sp.													
Jaeropsidae													
<i>Jaeropsis</i> sp.													
Limnoriidae													
<i>Limnoria trijunctata</i>													

SETTLING RACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Munnidae													
<i>Mura</i> sp.													
Sphaeromatidae													
<i>Paracercaris souleyta</i>													
Mysidacea (mysids)								1					
Ostracoda													
Tanaidacea													
<i>Anatanais normani</i>										16			
<i>Leptochelia dubia</i>								8					
<i>Leptochelia</i> sp.													
Thoracica (Barnacles)													
<i>Lilanus amphitrite</i>													
<i>Balanus tintinnabulum</i>													
<i>Chthamalus fissus</i>													
ARTHROPODA INSECTA													
ARTHROPODA PYCNOGONIDA													
ASCHELMINTHES NEMATODA													
BRYOZOA #								72	112	208	8	4	8
Chelostomata													
Actidae													
<i>Aetea angulata</i>													
Bicellariellidae													
<i>Bugula neritima</i>													
<i>Bugula stolonifera</i>										2			
Celleporinidae													
<i>Celleporaria brunea</i>													
Cheloporinidae													
<i>Cryptosula pallasiana</i>													
<i>Matensipora arcuata</i>													
Hippothoidae													
<i>Hippothoa hyalina</i>													
Membraniporidae													
<i>Conopeum reticulatum</i>													
* <i>Membranipora isabelleana</i>													
<i>Membranipora membranacea</i>													
<i>Membranipora serrilameila</i>													
<i>Membranipora taiwanulata</i>													
Microforellidae													
<i>Fenestrulina malusi</i>													1

*Taxonomic notes:

Bugula stolonifera formerly *B. californica*;*Celleporaria brunea* formerly *Holoporella brunea*;*Membranipora isabelleana* formerly *M. pilosa*.

Numbers indicate colonies.

STATION AL3 page 6 of 6
 December 1977-December 1978
 SETTling RACK DATA

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
FORAMINIFERA								8		48	24		
MOLLUSCA							4						
Gastropoda													
Acaesidae (Limpets)													
Athyidae													
<i>Hammonia</i> sp.													
Bullidae													
<i>Bulla gouldiana</i>							4						
Calyptoraidae													
<i>Crepidula onyx</i>													
<i>Crepidula</i> sp.													
Columbellidae													
<i>Mitrella carinata</i>							396		200	120	224		88
Nudibranchia													
<i>Dendronotus</i> sp.							188		8	8			
Pelecypoda													
Nataliidae													
<i>Natella arctica</i>							4		36	16	16	16	24
Mytilidae													
<i>Mytilus edulis</i>										8	8		
Pectinidae													
<i>Leptopecten latiauratus</i>													
Venetidae													
<i>Chione</i> sp.													
MEMBRANA													
PLATHELMINTHES													
Turbellaria								16	24	120	80	4	4
Polycladia													
PORIFERA													
"Vase sponge"							0.04g		0.04g	0.32g	<0.08g	<0.04g	0.04g
PLANTS-Total wet weight all plants													
CHLOROPHYCOPHYTA CHLOROPHYCEAE													
Cladophorales													
<i>Chaetomorpha</i> sp.													
Uvales													
<i>Enteromorpha</i> sp.													
<i>Ulva</i> sp.													
CHRYCOPHYCOPHYTA ENCELLARIOPHYCEAE													
Filamentous diatoms													
PHAEOPHYCOPHYTA PHAEOPHYCEAE													
<i>Ectocarpales-Ectocarpus</i> sp.													
RHODOPHYCOPHYTA FLORIDOPHYCEAE													
<i>Ceramiales-Polydipnomia</i> sp.										0.32g	<0.08g	<0.04g	

STATION B2 Page 4 of 6

SETTLING RACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	SEP	Oct	Nov	Dec
Munidae											8	4	5
Murzi sp.													
Sphaeromatidae													
Paracarcia sculpta													
Myidae (myiids)													
Arthropoda	2												
Tanaidacea													
Anatonia normani													
Leptochelia dubia													
Leptochelia sp.													
Thoracica (Baroncles)													
Balanus amphitrite													
Balanus tintinnabulum													
Chthamalus fissus													
ARTHROPODA INSECTA													
ARTHROPODA PYCNOGONIDA													
ASCHELMINTHES NEMATODA													
BRYOZOA #													
Chelostomata													
Actidae													
Astea angulata													
Bicellariellidae													
Bugula neritina													
*Bugula stolonifera													
Celleporinidae													
*Celleporaria brunnea													
Cheloporinidae													
Cryptosula pallasiata													
Wateripora arcuata													
Hippothoidae													
Hippothoa hyalina													
Membraniporidae													
Conopsea reticulatum													
*Membranipora isabelleana													
Membranipora membranacea													
Membranipora serrilamella													
Membranipora tuberculata													
Microporinidae													
Fenestrulina malayi													

ATAXONOMIC NOTES:
 Bugula stolonifera formerly B. californica; Celleporaria brunnea formerly Notoporella brunnea; Membranipora isabelleana formerly M. vli. ora.
 # Numbers indicate colonies.

SETTLING RACK DATA

December 1977-December 1978 STATION B: page 1 of 6

ANNELIDA POLYCHAETA

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Ampharetidae						2							
<i>Amphareta labrops</i>													
Capitellidae									32				
<i>Capitella capitata</i>													
Chrysopetalidae							160	28		8			
<i>Faleonatus bellis</i>				2	20	8							
Cirratulidae													
<i>Cautlarisella bioculata</i>													
<i>Chaetozone ooyoma</i>													
<i>Dodacapsaria concharem</i>													
<i>Tharyx</i> sp.										8			
Ctenodrilidae							32	20		8			
<i>Ctenodrilus serratus</i>													
Dorvilleidae		5	1		8								
<i>Chrysirocha puerilis</i>													
<i>Schistomeringos longicornis</i>													1
Hesionidae													
<i>Optiodromus pugstenis</i>		1						8					
Nereidae													
<i>Neanthes arenaceodentata</i>													
<i>Platynereis bicamillouata</i>		33	6	23	16	6	12	4	32			5	8
Opheliidae													
<i>Alvandia bioculata</i>		1				2	4						
<i>Polioptilum pictus</i>		1	1		4	4	88		208	64	256	417	16
Phyllodoceidae													
<i>Eulalia</i> sp.													
<i>Eumida sanguinea</i>													
Polynoidae		1	5	8	16	2	20	8	48			1	8
<i>Halosydna brevisetosa</i>													
<i>Halosydna johnsoni</i>													
<i>Harmothoe imbricata</i>													
Sabellariidae													
<i>Sabellaria alcocki</i>							28						8
Sabellidae													
<i>Chone caudata</i>													
<i>Chone</i> sp.													
Serpulidae						72							
<i>Pionosyllis gracilis</i>													
<i>Hydroides pacificus</i>		13	1	412			224	56	16	24	8	147	

STATION B3 Page 4 of 6

SETTLING BACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Munidae													
Murex sp.	4			1	4		8	4	80	16	16	29	16
Sphaeromatidae													
Paraneoreis scutipes													
Mysidacea (mysids)									48				
Cetacoda													
Tenaidacea				1		2	20	4	16		4		23
Anatamais noronai													
Leptocheilia dubia													
Leptocheilia sp.													
Thoracica (Barnacles)					20		8	4					
Balanus amphitrite				1									
Balanus tintinnabulum													
Chthamalus fissus										8			
ARTHROPODA INSECTA													
ARTHROPODA PYCNOGONIDA							4	28	16			1	
ASCHELMINTHES NEMATODA							60	80	128	112	12		4
BRYOZOA#				3	52	14							
Cheilostomata													
Aetidae													
Aeta arguina													
Bicellariellidae													
Bugula neritima													
*Bugula stolonifera													
Celleporinidae													
*Celleporaria brunnea													
Cheloporinidae													
Cryptosula palliata													
Katersipora arcuata													
Rhipothoidae													
Hippothoa hyalina													
Membraniporidae													
Conopeum reticulatum													
*Membranipora isabelliana													
Membranipora membranacea													
Membranipora serrilamella													
Membranipora tuberculata													
Microporinidae													
Fenestrulina mauii													

*Taxonomic notes:

Bugula stolonifera formerly B. californica; Celleporaria brunnea formerly Holoporella brunnea; Membranipora isabelliana formerly M. villosa.

Numbers indicate colonies.

SETTLING RACK DATA	December 1977-December 1978												STATION B3
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
FORAMINIFERA		3		4	6	6	4		32			3	16
MOLLUSCA													
Gastropoda				8	2	12	4						
Acmacidae (limpets)													
Athyidae													
Haminoea sp.													
Bullidae													
<i>Bulla gouldiana</i>													
Calyptecidae				4	2	4							
<i>Crepidula onyx</i>													
<i>Crepidula</i> sp.				28	12								24
Columbellidae				148	12	80	72	192				23	
<i>Micrella carinata</i>	141		29	102									
Nudibranchia													
<i>Lendronotus</i> sp.	906			145	92	344	72	16		8	16	4	
Pelecypoda													
Hiatellidae													
<i>Hiatella anctica</i>													
Mytilidae				190	4200	432	28	64		8	20	87	16
<i>Mytilus edulis</i>													
Pectinidae													
<i>Leptopecten latiauratus</i>			35	11	20								8
Veneridae													
<i>Chione</i> sp.													
NEREIDA													
PLATYHELMINTHES													
Turbellaria													
Polycladia	7			2	16	4	144	132	16	32	12	12	
FORIFERA													
"vase sponge"													
PLANTS-Total wet weight all plants	<0.01g		0.36g	0.01g	0.04g	0.02g	2.16g	0.04g	<0.16g	0.08g	<0.04g	0.01g	
CHLOROPHYCOPHYTA CHLOROPHYCEAE													
Cladophorales													
<i>Characomyxa</i> sp.			0.36g	0.01g									
Uvales													
<i>Euteromorphia</i> sp.													
<i>Ulva</i> sp.													
CHRYCOPHYCOPHYTA BACILLARIOPHYCEAE													
Filamentous diatoms													
PHAEOPHYCOPHYTA PHAEOPHYCEAE													
Ectocarpales-Ectocarpus sp.													
RHODOPHYCOPHYTA FLORIDOPHYCEAE													
Cerantiales- <i>Polysiphonia</i> sp.						0.40g			<0.16g			0.01g	<0.08g

SETTLING RACK DATA STATION B4 Page 4 of 6
 December 1977-December 1978

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Munidae													
<i>Munna</i> sp.													
Sphaeromatidae													
<i>Paracensis acutifra</i>						4							
Physidae (mysids)													
Tanaidacea						2	14	8	64	8		24	
<i>Ancalanais noronai</i>													
<i>Leptochelia abbia</i>													
<i>Leptochelia</i> sp.													
Thorzica (Barnacles)				1		6					48		
<i>Balanus amphitrite</i>													
<i>Balanus tintinnabulum</i>													
<i>Chthamalus fissus</i>													
ARTHROPODA INSECTA													
ARTHROPODA PYCNOGONIDA						2	6	20		32		16	
ASCHELMINTHES NEMATODA								4					
BRYOZOA													
Chelostomata													
Aetidae													
<i>Aetea anguina</i>													
Bicellariellidae							1	1				4	
<i>Bugula neritima</i>													6
<i>Bugula stolonifera</i>													9
Callipterinidae						2							
<i>Celleporaria brunnea</i>													
Cheiloporinidae						1							
<i>Cryptosula pallasiana</i>													
<i>Wateripora arcuata</i>													
Hippothoidae													
<i>Hippothoa hyalina</i>													
Membraniporidae													
<i>Conopsea reticulatum</i>													2
<i>Membranipora isabelliana</i>													
Membranipora membranacea													
<i>Membranipora serrilameila</i>													
<i>Membranipora tuberculata</i>													
Microporellidae													
<i>Penestrutina maisei</i>													

*Taxonomic notes:
Bugula stolonifera formerly *B. californica*; *Celleporaria brunnea* formerly *Holoporella brunnea*; *Membranipora isabelliana* formerly *M. dil.* sp.
 # Numbers indicate colonies.

SETTLING RACK DATA

December 1977-December 1978

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	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Munidae													
<i>Mura</i> sp.						6	20	16	24				1
Sphaeromatidae													
<i>Paracercetis sculpta</i>							4				20	8	49
Mysidacea (mysids)													
Ostracoda					16	14							
Tanaidacea													
<i>Anatocaris normani</i>					2	3	12	16		64	12		1
<i>Leptochelia dubia</i>													
<i>Leptochelia</i> sp.													
Thoracica (barnacles)													
<i>Lilanus amphitrite</i>					16	15	4	8	16			4	2
<i>Balanus tintinnabulum</i>													
<i>Chthamalus fiesuis</i>													
ARTHROPODA INSECTA													
ARTHROPODA PYCNOGONIDA	1				2	3	4	4	8				
ASCHELMINTHES NEMATODA	2			3	30	22	204	35	56	216	12	4	9
BRYOZON#													
Chelostomata													
Actidae													
<i>Astea angulata</i>													
Bicellariellidae													
<i>Bugula neritina</i>													
<i>Bugula stolonifera</i>					11	7	10	22	37		1		
Celleporinidae							9	47	55	43	1	14	
<i>Celleporaria brunnea</i>							4	5	7	8	3	1	
Cheiloporinidae					2								
<i>Cyrtosula palliata</i>							8	8	20	9	4		
<i>Wateripora areolata</i>									1	2	2		
Hippothoideae													
<i>Hippothoa hyalina</i>													
Membraniporidae													
<i>Conopsea reticulatum</i>													
<i>Membranipora isabelliana</i>													
<i>Membranipora membranacea</i>													
<i>Membranipora serrilamella</i>													
<i>Membranipora tuberculata</i>													
Microporellidae													
<i>Penestrictina melusii</i>													

*Taxonomic notes:
Bugula stolonifera formerly *B. californica*; *Celleporaria brunnea* formerly *Holoporella brunnea*; *Membranipora isabelliana* formerly *M. villosa*.
 # Numbers indicate colonies.

SETTLING RACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
ANNELIDA POLYCHAETA													
Ampharetidae													
Capitellidae													
<i>Capitella capitata</i>				2	1	7	4	8	8				2
Chrysopetalidae													
<i>Faleonotus bellis</i>												1	
Cirratulidae													
<i>Cautleriella bioculata</i>													
<i>Chaetosome cornea</i>				1									
<i>Dodecacaria concharum</i>													
<i>Tharyx</i> sp.													
Ctenodrilidae													
<i>Ctenodrilus serratus</i>						3	20	24					
Dorvilleidae													
<i>Glyptostrocha puerilis</i>	1						4	12	8	16	4	2	
<i>Schistomerings longicornis</i>													
Hesionidae													
<i>Glyhidromus pugettensis</i>												1	
Nereidae													
<i>Neanthes arenosodentata</i>											3		1
<i>Platynereis bicaraliculata</i>													
Opheliidae													
<i>Armandia bioculata</i>													
<i>Polydora pictus</i>											1	2	1
Phyllodoceidae													
<i>Eulalia</i> sp.													
<i>Eulalia bifoliata</i>													
<i>Eulalia sanguinea</i>													
Polynoidae													
<i>Halosydna brevicauda</i>													
<i>Halosydna johnsoni</i>													
<i>Harmeria imbricata</i>													
Sabellariidae													
<i>Sabellaria alcocki</i>													
Sabellidae													
<i>Chone comdata</i>													
<i>Chone</i> sp.													
Serpullidae													
<i>Eteoneus gracilis</i>													
<i>Hydrirides pacificus</i>	2		30	1	164	9	196	76	504	1016	107	95	4

December 1977-December 1978 STATION B6 page 3 of 6

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Oct	Nov	Dec
Isaeidae												
<i>Gomzaropsis tikomani</i>												
<i>Megamphopus effertus</i>												
<i>Megamphopus maritima</i>												
<i>Photis</i> sp.												
Ischyroceridae												
<i>Ischyrocerus</i> sp.					1	4	20		16		6	
<i>Jassa falcata</i>												
<i>Microjassa litotes</i>												
Leucothoidae												
<i>Leucothoe alata</i>												
Pleustidae												
<i>Parapleustes</i> sp.												
Podoceridae												
<i>Podocerus brasiliensis</i>												
<i>Podocerus cristatus</i>												
Stenothoidae												
<i>Stenothoe vaida</i>					1	2	156	700	776	120	183	1
Copepoda												
Cumacea												
Decapoda												
decapod larvae (zoae)					4							
<i>Brachyura</i> (crabs)												
<i>Brachyura</i> larvae												
Grapsidae												
<i>Hemigrapsus oregonensis</i>												
Majidae												
<i>Loxonyxalus</i> sp.												
<i>Caridea</i> (shrimp)												
shrimp larvae												
Isopoda												
<i>Anthuridae</i>												
<i>Paranthura elegans</i>					1					8	7	3
Ianiridae												
<i>Ianiropsis</i> sp.										32	3	5
Jaeropsidae												
<i>Jaeropsis</i> sp.												
Limnoriidae												
<i>Limnoria tripunctata</i>	15		56	124	117	54	188	44	120	136	25	2

SETTLING RACK DATA

December 1977-December 1978 STATION B6 Page 4 of 6

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Munidae													
<i>Munna</i> sp.													
Sphaeromatidae													
<i>Paracoreis sculpta</i>						11	72	12		48	85	67	30
Mysidacea (mysids)													
<i>Notropoda</i>													
Tanaidacea													
<i>Axiatania norwani</i>													
<i>Leptochelia dubia</i>													
<i>Leptochelia</i> sp.	1							12	8			15	
Thoracica (Barnacles)													
<i>Balanus amphitrite</i>					6	3	24	44		8	7	3	
<i>Balanus tintinnabulum</i>													
<i>Chthamalus fissus</i>													
ARTHROPODA INSECTA													
<i>1</i>						1							
<i>2</i>						2	164	20	64	16		1	13
ARTHROPODA PYCNOGONIDA													
ASCHELMINTHES NEMATODA													
BRYOZOA [#]													
<i>Chelostomata</i>													
Actidae													
<i>Actea anguina</i>													
Bicelliellidae													
<i>Bugula verticilla</i>						11	16	39					
<i>Bugula stolonifera</i>						37	53	474	43				
Celleporinidae													
<i>Celleporaria brunnea</i>													
Cheiloporinidae													
<i>Cryptosula pallasiana</i>						5	7	3	2			2	
<i>Wateripora arcuata</i>							2						14
Hippothoidae													
<i>Hippothoa hyalina</i>													
Membraniporidae													
<i>Comapeza reticulatum</i>													
<i>Membranipora isabelleana</i>													
<i>Membranipora membranacea</i>													
<i>Membranipora serrilamella</i>													
<i>Membranipora tuberculata</i>													
Microporellidae													
<i>Fenestrulina malusi</i>													

[#]Taxonomic notes:
Bugula stolonifera formerly *B. californica*; *Celleporaria brunnea* formerly *Holoporella brunnea*; *Membranipora isabelleana* formerly *M. vil* ord.
[#] Numbers indicate colonies.

SETTLING RACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Isaeidae													
<i>Cammaropsis thompsoni</i>													
<i>Megamphopus effarens</i>													
<i>Megamphopus maritima</i>													
<i>Photis</i> sp.													
Ischyroceridae													
<i>Ischyrocerus</i> sp.													
<i>Jassa falcata</i>													
<i>Microjassa litotes</i>													
Leucothoidae													
<i>Leucothoe alata</i>													
Pleustidae													
<i>Purpuraetes</i> sp.													
Podoceridae													
<i>Podocerus brasiliensis</i>													
<i>Podocerus cristatus</i>													
Stenothoidae													
<i>Stenothoe villosa</i>													
Copepoda													
Cumacea													
Decapoda													
decapod larvae (zoaea)													
Brachyura (crabs)													
brachyura larvae													
Grapsidae													
<i>Hemigrapsus oregonensis</i>													
Majidae													
<i>Loxorhynchus</i> sp.													
Caridea (shrimp)													
shrimp larvae													
Isopoda													
Anthuridae													
<i>Paranthura elegans</i>													
Tanuridae													
<i>Taninopsis</i> sp.													
Jaeropsidae													
<i>Jaeropsis</i> sp.													
Limnoriidae													
<i>Limnoria tripunctata</i>													

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SETTLING RACK DATA	December 1977-December 1978												STATION B7				
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Aug	Sep	Oct	
Munididae:																	
<i>Munzi</i> sp.																	
Sphaeromatidae																	
<i>Purpuraceis sculpta</i>	16	4	4	5	15	39	4		128	84	45						29
Mysidacea (mysids)																	
Ostracoda																	
Tanaidacea:																	
<i>Anatania normani</i>					3	12	164	672	80	144	2						76
<i>Leptochelia dubia</i>																	
<i>Leptochelia</i> sp.																	
Thoracica (barnacles)																	
<i>Balanus amphitrite</i>					15	8	24	9	16	24	3						1
<i>Balanus tintinnabulum</i>																	
<i>Chthamalus fissus</i>																	
ARTHROPODA - INSECTA																	
ARTHROPODA - YCNOGONIDA																	
ASCHELMINTHUS NEMATODA	1				11	1	68										2
BRYOZOA #																	
Chelostomata																	
Actidae																	
<i>Astea angulata</i>																	
Bicellariellidae																	
<i>Bugula neritina</i>						1	379	330	3								
<i>Bugula stolonifera</i>						2	34	59									
Calleporinidae																	
<i>Celleporaria brunnea</i>							2										
Cheiloporinidae																	
<i>Cryptosula pallasiama</i>							41	26	28	1	5						2
<i>Kateripora aramata</i>																	
Hippothoidae																	
<i>Hippothoa hyalina</i>																	
Membraniporidae																	
<i>Conopium reticulatum</i>																	
<i>Membranipora isabelliana</i>																	
<i>Membranipora membranacea</i>																	
<i>Membranipora serrilamella</i>																	
<i>Membranipora tuberculata</i>																	
Microporellidae																	
<i>Fenestrulina walvisi</i>																	

¹Taxonomic notes:

²*Bugula stolonifera* formerly *B. californica*; *Celleporaria brunnea* formerly *Holoporella brunnea* formerly *Holoporella isabelliana* formerly *M. villosa*.

Numbers indicate colonies.

SETTLING RACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
FORAMINIFERA													
MOLLUSCA													
Gastropoda			1										
Acanthidae (limpets)													
Athyridae													
<i>Haminoea</i> sp.													
Bullidae													
<i>Bulla gouldiana</i>													
Calyptraeidae						1							
<i>Crepidula omgri</i>													
<i>Crepidula</i> sp.						8							
Columbellidae						1			16				
<i>Mitrella carinata</i>							8						
Nudibranchia													
<i>Dendromotus</i> sp.													2
Pelecypoda													
Hiatellidae													
<i>Hiatella arctica</i>													
Mytilidae				1		6	12						
<i>Mytilus edulis</i>													
Pectinidae													
<i>Leptopecten latianatus</i>		1	4		1								
Veneridae													
<i>Chione</i> sp.													
NEMERTEA													
PLATHELMINTHES													
Turbellaria													
Polycladia			1			2	20	40	88	40	5		
PORIFERA													
"Vase sponge"													
PLANTS-Total wet weight all plants				0.01g		<0.01g	<0.04g		<0.16g	0.12g	<0.01g		0.02g
CHLOROPHYCOPHYTA CHLOROPHYCEAE													
Cladophorales													
<i>Chaetomorpha</i> sp.													
Uvales													
<i>Enteromorpha</i> sp.					1.2g								
<i>Ulva</i> sp.													
CHRYCOPHYCOPHYTA BACILLARIOPHYCEAE													
Filamentous diatoms													
PHAEOPHYCOPHYTA PHAEOPHYCEAE													
Ectocarpales- <i>Ectocarpus</i> sp.													
RHODOPHYCOPHYTA FLORIDOPHYCEAE													
Ceramiales- <i>Polysiphonia</i> sp.				<0.01g					<0.16g	<0.04g	<0.01g		

SETTLING RACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	AUG	SEP	OCT	Nov	Dec
ANNELEIDA POLYCHAETA													
Apharetidae													
Apharete labrops													
Capitellidae													
Capitella capitata	2			1	15	4	7	2			16	5	5
Chrysopetalidae													
Pisemonus bellis					1	6	1	4			2		
Cirratulidae													
Caulleriella biculata	1										2		
Chaetomae corona													
Didecaoceria conchurum													
Tharyx sp.													
Ctenodrilidae													
Ctenodrilus serratus						6	15	47	24	40	20		2
Dorvilleidae													
Ophryotrocha puerilis					2	3			7				2
Schistomeringos longicornis	1												12
Hesionidae													
Chironomus pugetensis													
Nereidae													
Nereis arenosoventata													
Platynereis bicanaliculata													
Opheliidae													
Armanilla biculata	1				11			2	4	2	2		1
Polyophthalmus pictus	2				3	2	8	2	1	10	22	16	3
Phyllocoelidae	1									2	10	5	3
Etebella sp.												1	1
Eumida bifoliata													
Eumida sanguinea													
Polynoidae													
Halosydna brevisetosa												1	1
Halosydna johnsoni					2					4			
Hamathoe imbricata					2								
Sabellariidae													
Sabellaria alcocki					17		111	27	54	14		3	3
Sabellidae													
Chone ecaudata													
Chone sp.													
Serpullidae													
Eurymetis gracilis													
Hydroides pacificus	43	8			109	10	163	64	232	32	12	134	7

SETTLING RACK DATA

December 1977-December 1978

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	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
<i>Isaeidae</i>													
<i>Gammaropsis thompsoni</i>													
<i>Megamphopus efferens</i>													
<i>Megamphopus marteae</i>													
<i>Photis</i> sp.													
<i>Ischyroceridae</i>													
<i>Ischyrocerus</i> sp.	3				3	13	14	88	13	20	4	14	
<i>Jassa falcata</i>													
<i>Microjassa litotes</i>													
<i>Leucothoidae</i>													
<i>Leucothoe alata</i>													
<i>Pleustidae</i>													
<i>Parapleustes</i> sp.													
<i>Podoceridae</i>													
<i>Podocerus brasiliensis</i>	44	6		1		16	8		53	228	98	50	2
<i>Podocerus cristatus</i>													
<i>Sternothoidae</i>													
<i>Sternothos valida</i>	3	5		20		1	6	7	5	30	10	41	1
<i>Copepoda</i>	74	160	4	61	167	164	556	771	546	390	188	10	130
<i>Cumacea</i>													
<i>Decapoda</i>													
decapod larvae (zoae)													
<i>Brachyura</i> (crabs)													
brachyura larvae													
<i>Grapsidae</i>													
<i>Hemigrapsus oregonensis</i>													
<i>Majidae</i>													
<i>Loxorhynchus</i> sp.													
<i>Caridea</i> (shrimp)													
shrimp larvae													
<i>Isopoda</i>													
<i>Anthuridae</i>													
<i>Paranthura elegans</i>		1					1				2	1	
<i>Ianiridae</i>													
<i>Pantropis</i> sp.	45	18		1	9	38	73	26	40	130	58	16	1
<i>Jaeropsidae</i>													
<i>Jaeropsis</i> sp.													
<i>Limnoriidae</i>													
<i>Limnoria tripunctata</i>			1		7			2					4

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SETTLING RACK DATA	STATION C2												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Munida:							1				4		
Munna sp.													
Sphaeromatidae													
Paracarcis sculpta										2			3
Mysidacea (mysids)								9			2		
Ostracoda													
Tanaidacea													
Amatziis normani	1			1	1	3	1	1	5	4			3
Leptochelia dubia													
Leptochelia sp.													
Thoracica (Barnacles)							5	1	13		88		
Eclosis amphitrite						3							
Eclosis tintinnabulum													
Catharatus fissus													
ARTHROPODA INSECTA													
ARTHROPODA HYCNOGONIDA	4	1				2	2	1	1	4			3
ASCHELMINTHUS NEMATODA	3	5			10	5	47	7	29	40	32		2
BRYOZOA #													
Chelostomata													
Aetidae													
Aetia anguina													
Bicellariellidae													
Bugula neritima	1						7		2	26	3		5
*Bugula stolonifera	3						8	3	2	42	4		
Celleporinidae													
*Celleporaria brunea							9		3		3		
Cheloporinidae													
Cryptosula pallastana							53	8	2				
Water: ipora areolata							1		1				1
Hippochidae													
Hippo: kaa hyalina													
Memban: poridae													
Conopsea reticulatum													
*Membranipora isabelliana													
Membranipora membranacea													
Membranipora serrilamella													
Membranipora tuberculata													
Microporellidae													
Fenestrulina malusi													

*Taxonomic notes:
 Bugula stolonifera formerly B. californica; Celleporaria brunea formerly Holoporella brunea; Membranipora isabelliana formerly M. villosa.
 # Numbers indicate colonies.

SETTLING RACK DATA

December 1977-December 1978 STATION C2 Page 6 of 6

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
FORAMINIFERA													
MOLLUSCA													
Gastropoda	1	1											
Acmelidae (limpets)													
Athyidae													
<i>Humboldtia</i> sp.													
Bullidae													
<i>Bulla gouldiana</i>													
Calyptraeidae													
<i>Crepidula onyx</i>													
<i>Crepidula</i> sp.													
Columbellidae													
<i>Mitrella carinata</i>	10	6		11	5	30	5	25	3	2		5	2
Nudibranchia													
<i>Dendronotus</i> sp.		8	1	1	6	47	73			2			
Pelecypoda													
Hiataliidae													
<i>Hiatalia anatica</i>									1		4		
Mytilidae													
<i>Mytilus edulis</i>				2	53	19	2				2		
Pectinidae													
<i>Leptopecten latiauratus</i>			3	7	11	5	4						
Veneridae													
<i>Chione</i> sp.													
NEMERTEA													
PLATYHELMINTHES													
Turbellaria	36												
Polycladia		6			1	5	23	29	270	30	24	8	3
FORIFERA													
"Vase sponge"													
PLANTS-Total wet weight all plants	<0.01g				<0.01g	<0.01g	0.06g	0.02g	0.02g	0.03g	<0.02g		
CHLOROPHYCOPHYTA CHLOROPHYCEAE													
Cladophorales													
<i>Chaetomorpha</i> sp.													
<i>Uvales</i>													
<i>Enteromorpha</i> sp.													
<i>Ulva</i> sp.													
CHRYSTOPHYCOPHYTA BACILLARIOPHYCEAE													
Filamentous diatoms													
PHAEOPHYCOPHYTA PHAEOPHYCEAE													
Ectocarpales-Ectocarpus sp.													
RHODOPHYCOPHYTA FLORIDOPHYCEAE													
Ceramiales-Polydiphorita sp.	<0.01g				<0.01g			0.02g					0.02g

December 1977-December 1978

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	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
ANNELIDA POLYCHAETA													
Amphaxetidae													
<i>Ampikete labrops</i>													
Capitellidae							1	1	2	2	3	6	3
<i>Capitella capitata</i>	10	2											
Chrysopetaliidae					1								
<i>Palaemonetus bellis</i>													
Cirratulidae													
<i>Caulleriella bioculata</i>													
<i>Chaetosome corvina</i>													
<i>Dodecacaria concharum</i>													
<i>Tharyx</i> sp.													
Ctenodrilidae				1	19	4	29	26	102	60	17	21	
<i>Ctenodrilus serratus</i>								2					
Dorvilleidae					4		9		4		5	20	6
<i>Ophryotrocha puerilis</i>	3	3											
<i>Schistoceratingos longicornis</i>													
Hesionidae													
<i>Quinodromus pugettensis</i>													
Nereidae													
<i>Neanthes arenaceoventrata</i>				3	7	1			1		2	1	
<i>Platynereis bicamaliculata</i>													
Opheliidae							1						
<i>Armandia bioculata</i>							2		1		3	9	
<i>Polyopthalmus pictus</i>												1	1
Phyllodoceidae							1						
<i>Eulalia</i> sp.													
<i>Eumida bifoliata</i>													
<i>Eumida sanguinea</i>				1			1						
Polynoidae							2					1	2
<i>Halosydna brevisetosa</i>													
<i>Halosydna johnsoni</i>													
<i>Harmerhos imbricata</i>													
Sabellariidae							34	3		4	2	7	2
<i>Sabellaria alcocki</i>													
Sabellidae													
<i>Chone exarudata</i>													
<i>Chone</i> sp.													
Serpulidae							173	36	64	24	19	30	7
<i>Eupomatus gracilis</i>													
<i>Hydroides pacificus</i>	76	13	1		70	22							

December 1977-December 1978 STATION C3 Page 4 of 6

SETTLING BACK DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Munida:													
Muna sp.		1										2	1
Sphaeromatidae						2	2		2	2			
Paracarcis sculpta													
Mysidacea (mysids)						2							1
Ostracoda													1
Tanaidacea:							56	15	5	2	3	1	1
Anisozais normani			1	1		6							
Leptochelia dubia													
Leptochelia sp.													
Thoracica (Barnacles)				5		22	2	15	3	14	7		
Edanus amphitrite													
Edanus tinninabulum													
Chthamalus fissus													
ARTHROPODA INSECTA				1	1	7	1	5	1	12	6	4	1
ARTHROPODA PYCNOGONIDA				2					26				
ASCHELMINTHUS NEMATODA													
BRYOZOA #		2											
Cheilostomata													
Aetidae													
Aetia anguina													
Bicellariellidae							8		3	8	4		
Bugula neritina	1						1		2	21	2		
*Bugula stolonifera	1												
Celleporinidae							27		54	80	2		
*Celleporaria brunnea													
Cheiloporinidae													
Cryptosula palliata							19	2	2	5	1		
Wateripora arcuata													
Hippothoidae													
Hippo. koo hyalina													
Membraniporidae													
Concozum reticulatum													
*Membranipora isabelliana													
Membranipora membranacea													
Membranipora serrilamella													
Membranipora tuberculata													
Microporallidae													
Fenestrulites malusi													

*Taxonomic notes: *Calloporaria brunnea* formerly *Holoporella brunnea*; *Membranipora isabelliana* formerly *M. villosa*.

Numbers indicate colonies.

SETTLING RACK DATA

December 1977-December 1978

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	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
ANNELIDA POLYCHAETA													
Ampharetidae													
<i>Aphareta labrops</i>													
Capitellidae			1			7	10		1		3	8	1
<i>Capitella capitata</i>													
Chrysopetalidae													
<i>Halaeetus bellis</i>													
Cirratulidae													
<i>Cavilerella biovulata</i>													
<i>Chaetozoa corona</i>													
<i>Dodecaneria concharum</i>													
<i>Tharyx</i> sp.													
Ctenodrilidae				2	17	3	4	4	24	19		1	
<i>Ctenodrilus serratus</i>													
Dorvilleidae			3		13	5	31		14	19	15	31	15
<i>Chryotrocha puerilis</i>													
<i>Schistomeringos longicornis</i>				9				4					
Hesionidae													
<i>Chiodromus pugetensis</i>										1			
Nereidae													
<i>Neanthes arenaceodentata</i>													
<i>Platynereis bicanaliculata</i>									1	1		1	3
Opheliidae													
<i>Armandia biovulata</i>													
Polyophtalmidae													
<i>Polyophtalmus pictus</i>													
Phyllodoceidae													
<i>Eulalia</i> sp.													
<i>Eulalia bifoliata</i>													
<i>Eulalia sanguinea</i>													
Polynoidae													
<i>Halosydna brevisetosa</i>													
<i>Halosydna johnsoni</i>													
<i>Raricloe imbricata</i>													
Sabellariidae													
<i>Sabellaria dicoeki</i>													
Sabellidae													
<i>Chone ecaudata</i>												1	
<i>Chone</i> sp.													
Serpulidae													
<i>Serpulastrea gracilis</i>													
<i>Hydroides pacificus</i>	1			36			20	3	26	26	51	28	5

SETTLING RACK DATA

December 1977-December 1978

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	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Isaeidae													
<i>Gammaropsis thompsoni</i>													
<i>Megamphopus affrenis</i>						1	1	1	2	1			
<i>Megamphopus maritima</i>													
<i>Photis</i> sp.													
Ischyroceridae													
<i>Ischyrocerus</i> sp.													
<i>Jassa falcata</i>													
<i>Microjassa litotes</i>													
Leucothoidae													
<i>Leucothoe alata</i>											2	5	
Pleustidae													
<i>Parapleustes</i> sp.													
Podoceridae													
<i>Podocerus brastliensis</i>													1
<i>Podocerus cristatus</i>													
Stenothoidae													
<i>Stenothoe valida</i>					1	122	2	18	90	34	13	30	30
Copepoda			2	8	69								
Cumacea													
Decapoda													
decapod larvae (zoae)													
Brachyura (crabs)													
brachyura larvae													
Grapsidae													
<i>Hemigrapsus oregonensis</i>													
Nejidae													
<i>Loxorhynchus</i> sp.													
Caridea (shrimp)													
shrimp larvae				3									
Isopoda													
Anthuridae													
<i>Paranthura elegans</i>							1		1	9	6	2	
Ianiridae													
<i>Ianiropsis</i> sp.													
Jaeropsidae													
<i>Jaeropsis</i> sp.													
Limnoriidae													
<i>Limnoria tripunctata</i>	23			143	144	73	21	24	85	62	3		1

SETTLING RACK DATA

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	AUG	Sep	Oct	Nov	Dec
Munnida:													
Munna sp.										1	1		
Sphaeromatidae													
<i>Paracarcis sculpta</i>													
Nysidacea (mysids)													
Ostracoda						3	4		1	1			
Tanaidacea													
<i>Avicolaria norwani</i>													
<i>Leptochelia dubia</i>													
<i>Leptochelia</i> sp.													
Thoracica (Barnacles)						3	1						
<i>Balanus amphitrite</i>													
<i>Balanus tintinnabulum</i>													
<i>Chthamalus fissus</i>													
ARTHROPODA - INSECTA													
ARTHROPODA PYCNOGONIDA													
ASCHELMINTHIS NEMATODA					4	2	10	5	22	12			7
BRYOZOA #													
Chelostomata													
Netidae													
<i>Astea anguina</i>													
Bicellariellidae													
<i>Bugula maritima</i>													
<i>Bugula stolonifera</i>													
Celleporinidae													
<i>Celleporaria brunnea</i>													
Cheloporinidae													
<i>Cryptosula palasiama</i>													
<i>Maternipora arakata</i>													
Hippothoidae													
<i>Hippo. koo hyalina</i>													
Membraniporidae													
<i>Conopium reticulatum</i>													
<i>Membranipora isabelleana</i>													
<i>Membranipora membranacea</i>													
<i>Membranipora serrilamella</i>													
<i>Membranipora tuberculata</i>													
Microporellidae													
<i>Fenestrulina malusi</i>													

†Taxonomic notes:
Bugula stolonifera formerly *B. californica*; *Celleporaria brunnea* formerly *Holoporella brunnea*; *Membranipora isabelleana* formerly *M. villosa*.
 # Numbers indicate colonies.

December 1977-December 1978

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SETTLING RACK DATA	STATION C6												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Isaeidae													
<i>Gammaropsis thompsoni</i>													
<i>Megamphopus efferens</i>													
<i>Megamphopus mantasia</i>													
<i>Pholis</i> sp.													
Ischyroceridae						7		11	4		1		
<i>Ischyrocerus</i> sp.													
<i>Jassa falcata</i>													
<i>Microjassa titotes</i>													
Leucothoidae													
<i>Leucothoe alata</i>													
Pleustidae													
<i>Purpileustes</i> sp.													
Podoceridae				1				1					
<i>Podocerus brastliensis</i>													
<i>Podocerus cristatus</i>													
Stenothoidae				1									
<i>Stenothoe valida</i>													
Copepoda				1		231	324	363	205	35	39	79	12
Cumacea	33												
Decapoda													
Decapod larvae (zoae)													
Brachyura (crabs)													
brachyura larvae													
Crapsidae													
<i>Hemigrapsus oregonensis</i>													
Majidae													
<i>Loxorhynchus</i> sp.													
Caridea (shrimp)													
shrimp larvae													
Isopoda													
Anthuridae													
<i>Paranthura elegans</i>													
Laniridae													
<i>Laminopsis</i> sp.													
Jaegersidae													
<i>Jaeropsis</i> sp.													
Limporidae													
<i>Limnoria tripunctata</i>	14					86	3	32	20	33	7	4	3

SETTLING RACK DATA

December 1977-December 1978

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	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Munidae													
<i>Murex</i> sp.													
Sphaeromatidae													
<i>Paraceceis scutipes</i>						1	1			2		1	5
Mysidacea (mysids)													1
Ostracoda													
Tanaidacea													
<i>Anatania normani</i>						1	9	10	3	1			
<i>Leptochelia chbia</i>													
<i>Leptochelia</i> sp.													
Thoracica (Barnacles)													
<i>Balanus amphitrite</i>				1		5		1		2			2
<i>Balanus tintinnabulum</i>													
<i>Chthamalus fissus</i>													
ARTHROPODA INSECTA													
ARTHROPODA PYCNOGONIDA						2							
ASCHELMINTHES NEMATODA						7	7	4	6	5			8
BRYOZOA #													
Cheilostomata													
Actidae													
<i>Astea angulata</i>													
Bicellarfelliidae													
<i>Bugula merlina</i>						2	1			12	1		1
<i>Bugula stolonifera</i>						2	4			15			
Celleporinidae													
<i>Celleporaria brunnea</i>						2	1			15	11		
Cheiloporinidae													
<i>Cryptosula pallastana</i>						10	24			2			1
<i>Heterostipa arenata</i>													
Hippothoidae													
<i>Hippothoa hyalina</i>													
Membraniporidae													
<i>Comopum reticulatum</i>													
<i>Membranipora isabelliana</i>													
<i>Membranipora membranacea</i>													
<i>Membranipora serrilamella</i>													
<i>Membranipora tuberculata</i>													
Microporellidae													
<i>Parastrellina malusi</i>													

Taxonomic notes:
Bugula stolonifera formerly *B. californica*; *Celleporaria brunnea* formerly *Holoporella brunnea*; *Membranipora isabelliana* formerly *M. villosa*.
Numbers indicate colonies.

December 1977-December 1978

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	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Isopoda													
<i>Gammaropsis thompsoni</i>													
<i>Megamphopus effereus</i>													
<i>Megamphopus maritima</i>				1		1	1	1	3		4		
<i>Photis</i> sp.													
Ischyroceridae													
<i>Ischyrocerus</i> sp.													
<i>Ussa falcata</i>													
<i>Microjassa tibotus</i>													
Leucothoidae													
<i>Leucothoe alata</i>													
Pleustidae													
<i>Parapleustes</i> sp.													
Podoceridae													
<i>Podocerus brasiliensis</i>													
<i>Podocerus cristatus</i>													
Stenothoidae													
<i>Stenothoe valida</i>	1		10	21	7	39	38	148	68	22	12	13	
Copepoda													
Cumacea													
Decapoda													
decapod larvae (zoae)													
<i>Brachyura</i> (crabs)													
<i>brachyura</i> larvae													
Grapsidae													
<i>Hemigrapsus omegonensis</i>							4	5	5	7			
Majidae													
<i>Loxorhynchus</i> sp.													
Caridea (shrimp)													
shrimp larvae					4	12							
Isopoda													
Anthuridae													
<i>Paranthura elegans</i>													
Ianiridae													
<i>Ianiropsis</i> sp.					6	8	8	3	2	6	8	2	
Jaeropsidae													
<i>Jaeropsis</i> sp.													
Limnoriidae													
<i>Limnoria tripunctata</i>	10		30	30	95	11	356	128	57	24	25	28	

SETTLING RACK DATA STATION C7 Page 4 of 6
 December 1977-December 1978

	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Munidae													
Munna sp.													
Sphaeromatidae													
Paracercis sculpta			1		1		4		4	4	8		4
Mysidacea (mysids)													
Ostracoda													
Tanaidacea													
Amatania normani						2	4						
Leptochelia dubia													
Leptochelia sp.				14					1	2	1		1
Thoracica (Barnacles)													
Eulanus amphiterite						3							
Elanus tintinnabulum													
Chthamalus fissus													
ARTHROPODA INSECTA													
ARTHROPODA PYSNOGONIDA													
ASCHELMINTHES NEMATODA			4		6	2	8	1	4	4	5		2
BRYOZOA #													
Cheilostomata													
Actidae													
Aetea angulata													
Bicellariellidae													
Bugula neritina								1					1
*Bugula stolonifera													
Celleporinidae													
*Celleporaria brunnea								1			26		
Cheiloporinidae													
Cryptosula palliata								2					
Katerispora arcuata								5					
Hippothoidae													
Hippothoa hyalina													
Membraniporidae													
Conopeum reticulatum													
*Membranipora isabelleana													
Membranipora membranacea													
Membranipora serrilamella													
Membranipora tinnaculata													
Microporcellidae													
Fenestrulina malina													

*Taxonomic Notes:
 Bugula stolonifera formerly B. californica; Celleporaria brunnea formerly Holoporella brunnea; Membranipora isabelleana formerly M. villosa.
 # Numbers indicate colonies.

SETTLING RACK DATA

December 1977-December 1978

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	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ANNELIDA POLYCHAETA													
<i>Ampelarete</i> Labrops													
Capitellidae													
<i>Capitella capitata</i>				8	10		9	16	4	2	2	9	4
Chrysopetalidae													
<i>Piscomotus bellis</i>													
Cirratulidae													
<i>Gaulterietta bioculata</i>													
<i>Chartosone corona</i>						1	1						
<i>Podocaccaria conchazum</i>									1				
<i>Tharyx</i> sp.													
Ctenodrilidae													
<i>Ctenodrilus serratus</i>													
Dorvilleidae													
<i>Ophryotrocha puerilis</i>				5		2	42	24	17	2		1	2
<i>Schistomeringos longicornis</i>				1			16	10	11	4	6	12	9
Hesionidae													
<i>Ophiodromus pugettenis</i>													
Nereidae													
<i>Neanthes arenaceodentata</i>							1						
<i>Platynereis bicamaticulata</i>							1						
Ophelidae													
<i>Armania bioculata</i>									1				
<i>Polyopthalmus pictus</i>							1						
Phyllodoctidae													
<i>Eulalia</i> sp.													
<i>Eumida bifoliata</i>													
<i>Eumida sanguinea</i>													
Polynoidae													
<i>Halosydna brevisetosa</i>									4	2			
<i>Halosydna johnsoni</i>													
<i>Harmeria imbricata</i>													
Sabellariidae													
<i>Sabellaria alcocki</i>													
Sabellidae													
<i>Chone ecaudata</i>							7	5	9	1	1	4	9
<i>Chone</i> sp.													
Serpulidae													
<i>Eucyrtius gracilis</i>							1						
<i>Hydroides pacificus</i>				1	107	8	297	79	231	40	11	87	3

SETTLING RACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Isaeidae													
<i>Gammaropsis thompeoni</i>													
<i>Megamphopus effarens</i>													
<i>Megamphopus marteasi</i>													
<i>Pholis</i> sp.													
Ischyroceridae													
<i>Ischyrocerus</i> sp.									3				
<i>Jassa falcata</i>													
<i>Microjassa littoralis</i>													
Leucothoideae													
<i>Leucothoe alata</i>													
Pleustidae													
<i>Parapleustes</i> sp.													
Podoceridae													
<i>Podocerus brasiliensis</i>													
<i>Podocerus cristatus</i>													
Stenothoideae													
<i>Stenothoe valida</i>													
Copepoda													
Cumacea													
Decapoda													
decapod larvae (zoae)													
<i>Brachyura</i> (crabs)													
brachyura larvae													
Grapsidae													
<i>Hemigrapsus oragonensis</i>													
Mejidae													
<i>Lomohynchus</i> sp.													
Caridea (shrimp)													
shrimp larvae													
Isopoda													
Anthuridae													
<i>Paranthura elegans</i>													
Ianiridae													
<i>Ianiropsis</i> sp.													
Jaeropsidae													
<i>Jaeropsis</i> sp.													
Limnoriidae													
<i>Limnoria tripunctata</i>													

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SETTLING RACK DATA	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Isaeidae													
<i>Gammaropsis thompsoni</i>													
<i>Megamphopus efferens</i>													
<i>Megamphopus marteana</i>													
<i>Photis</i> sp.													
Ischyroceridae													
<i>Ischyrocerus</i> sp.				1	32	237	1266	2216	72	10	1		
<i>Jassa falcata</i>													
<i>Microjassa litotes</i>													
Leucothoidae													
<i>Leucothoe aiata</i>													
Pleustidae													
<i>Parapleustes</i> sp.													
Podoceridae													
<i>Podocerus brasiliensis</i>						2	2			32	24	2	
<i>Podocerus cristatus</i>						2							
Stenothoidae													
<i>Stenothoe valida</i>				4	248	28	1034	448	4	4	332	55	6.1
Copepoda	2			139	986	300							
Cumacea													
Decapoda													
decapod larvae (zoae)													
<i>Brachyura</i> (crabs)													
brachyura larvae													
Grapsidae													
<i>Hemigrapsus oregonensis</i>				1									
Majidae													
<i>Loxorhynchus</i> sp.													
<i>Caridea</i> (shrimp)													
shrimp larvae													
Isopoda													
<i>Anthuridae</i>													
<i>Paranthura elegans</i>	1			1					4		4	1	8
<i>Ianiridae</i>													
<i>Ianiropsis</i> sp.						2							
Jaeropsidae													
<i>Jaeropsis</i> sp.													
Limnoridae													
<i>Limnoria tripunctata</i>	11			11	3	2							3

SETTLING RACK DATA

December 1977-December 1978

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	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Nannida:													
<i>Murex</i> sp.													
Sphaeromatidae											4		2
<i>Paracarcis sculpta</i>													
Mysidacea (mysids)													
Ostracoda													
Tanaidacea					1	1	6		12		4		
<i>Amitania noronai</i>													
<i>Leptochelia dubia</i>													
<i>Leptochelia</i> sp.													
Thoracica (Barnacles)					92	38	24		12	80	260		2
<i>Balanus amphitrite</i>													
<i>Balanus tintinnabulum</i>													
<i>Catharus fassus</i>													
ARTHROPODA INSECTA					10	1	6						
ARTHROPODA DYCOGONIDA					5	15	2		4				
ASCHELMINTHUS NEMATODA				1									
BRYOZOA #													
Chelostomata													
Aetidae													
<i>Aetea anguina</i>													
Bicellariellidae						7		58	112				
<i>Bugula neritina</i>					16			30	5				2
<i>Bugula stolonifera</i>													
C													
Cyathoidae													
<i>Calloporaria brunnea</i>													
Cheloporinidae													
<i>Cryptosula pallasiana</i>													
<i>Wateripora arcuata</i>													
Hippothoidae													
<i>Hippothoa hyalina</i>								1					
Membraniporidae													
<i>Conopsea reticulatum</i>													
<i>Membranipora isabelleana</i>													
<i>Membranipora membranacea</i>													
<i>Membranipora cernilamella</i>													
<i>Membranipora tuberculata</i>													
Microporellidae													
<i>Fenestrulina malusi</i>													

*Economic notes:

Bugula stolonifera formerly *B. californica*; *Calloporaria brunnea* formerly *Calloporaria isabelleana* formerly *M. villosa*.

Numbers indicate colonies.

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SETTLING RACK DATA	December 1977-December 1978												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Isaeidae													
<i>Commurropis thompsoni</i>						3							
<i>Megamphopus effervens</i>													
<i>Megamphopus murtessia</i>													
<i>Photis</i> sp.													
Ischyroceridae													
<i>Ischyrocerus</i> sp.							6	1	4	4			
<i>Jaesa jalcata</i>													
<i>Microjassa litotes</i>													
Leucothoidae													
<i>Leucothoe alata</i>													
Pleustidae													
<i>Paraplaustrae</i> sp.													
Podoceridae													
<i>Podocerus brasiliensis</i>									2				
<i>Podocerus cristatus</i>													
Stenothoidae													
<i>Stenothoe uita</i>			2	1	9	68	97	292	68	23	10	32	36
Copepoda													
Cumacea													
Decapoda													
decapod larvae (soxa)													
<i>Brachyura</i> (crabs)													
brachyura larvae													
Grapsidae													
<i>Hemigrapsus oregonensis</i>													
Hajidae													
<i>Leocorymbus</i> sp.													
Caridea (shrimp)													
shrimp larvae													
Isopoda													
Anthuridae													
<i>Panathura elegans</i>										4	1	1	1
Ianiridae													
<i>Iantropsis</i> sp.									1	31	1		
Jaeropsidae													
<i>Jacropis</i> sp.													
Limnoriidae													
<i>Limnoria tripunctata</i>			69	489	998	280	108	224	75	180	5	3	8

SETTLING RACK DATA

December 1977-December 1978

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	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	STATION D1	Oct	Nov	Dec
<i>Isaeidae</i>													
<i>Gammaropsis thompsoni</i>													
<i>Megamphopus effereus</i>													
<i>Megamphopus marteasi</i>													
<i>Pholis</i> sp.													
<i>Ischyroceridae</i>													
<i>Ischyrocerus</i> sp.					749	2648	5092		264	2960	5		
<i>Jassa falcata</i>	41												
<i>Microjassa litotes</i>													
<i>Leucothoidae</i>													
<i>Leucothoe alata</i>													
<i>pleustidae</i>													
<i>Purpuleustes</i> sp.													
<i>Podoceridae</i>													
<i>Podocerus braxiiliensis</i>	1					1	16		144	104	15		
<i>Podocerus aristatus</i>													
<i>Stenothoidae</i>													
<i>Stenothoe valida</i>	20				1	347	8		104	160			
<i>Copepoda</i>	35				658		796		1024	992	10		
<i>Cumacea</i>													
<i>Decapoda</i>													
decapod larvae (soxa)													
Brachyura (crabs)													
brachyura larvae													
<i>Crapsidae</i>													
<i>Hemigrapsus oregonensis</i>													
<i>Majidae</i>													
<i>Loxophthalmus</i> sp.													
Caridea (shrimp)													
shrimp larvae													
<i>Isopoda</i>													
<i>Anthuridae</i>													
<i>Panorhynchus elegans</i>													
<i>Ianiridae</i>													
<i>Ianiropsis</i> sp.													
<i>Jaeropsidae</i>													
<i>Jaeropsis</i> sp.													
<i>Limnoridae</i>													
<i>Limnoria tripunctata</i>					2	1	80		48	200	28		

SETTLING RACK DATA
 December 1977-December 1978
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	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	SEP	Oct	Nov	Dec
<i>Paracaris</i> sp.													
Sphaeromatidae													
<i>Paracaris sculpta</i>													
Myxidacea (mysids)				6						16			
Ostracoda													
Tanaidacea				11			4		8				
<i>Amphioxys normani</i>													
<i>Leptometella dubia</i>													
<i>Leptometella</i> sp.													
Thoracica (Barnacles)				3			4			8			
<i>Balanus amphitrite</i>													
<i>Balanus tintinnabulum</i>													
<i>Chthamalus fissus</i>													
ARTHROPODA INSECTA				2	1	3	72		40	32			
ARTHROPODA PYCNOGONIDA				2	3				56	24			
ASCHELMINTHES NEMATODA													
BRYOZOA #													
Chelostomata													
Actidae													
<i>Actea anguina</i>													
Bicellariellidae													
<i>Bugula neritina</i>										10			2
<i>Bugula stolonifera</i>										16			
Celleporinidae													
<i>Calloporaria brunnea</i>									1	2			3
Cheiloporinidae													
<i>Cryptomenia pallasiana</i>													
<i>Mataripora arcuata</i>													
Hippothoidae													
<i>Hippo hoo hyalina</i>													
Membranoporidae													
<i>Coropium reticulatum</i>						1	2		4	4			
<i>Membranipora isabelleana</i>													
<i>Membranipora membranacea</i>													
<i>Membranipora serrilamella</i>													
<i>Membranipora tuberculata</i>						1							7
Microporinidae													
<i>Fungiclinga malusi</i>													

*Taxonomic notes:
Bugula stolonifera formerly *B. californica*; *Calloporaria brunnea* formerly *Holoporella brunnea*; *Membranipora isabelleana* formerly *M. villosa*.
 # Numbers indicate colonies.

