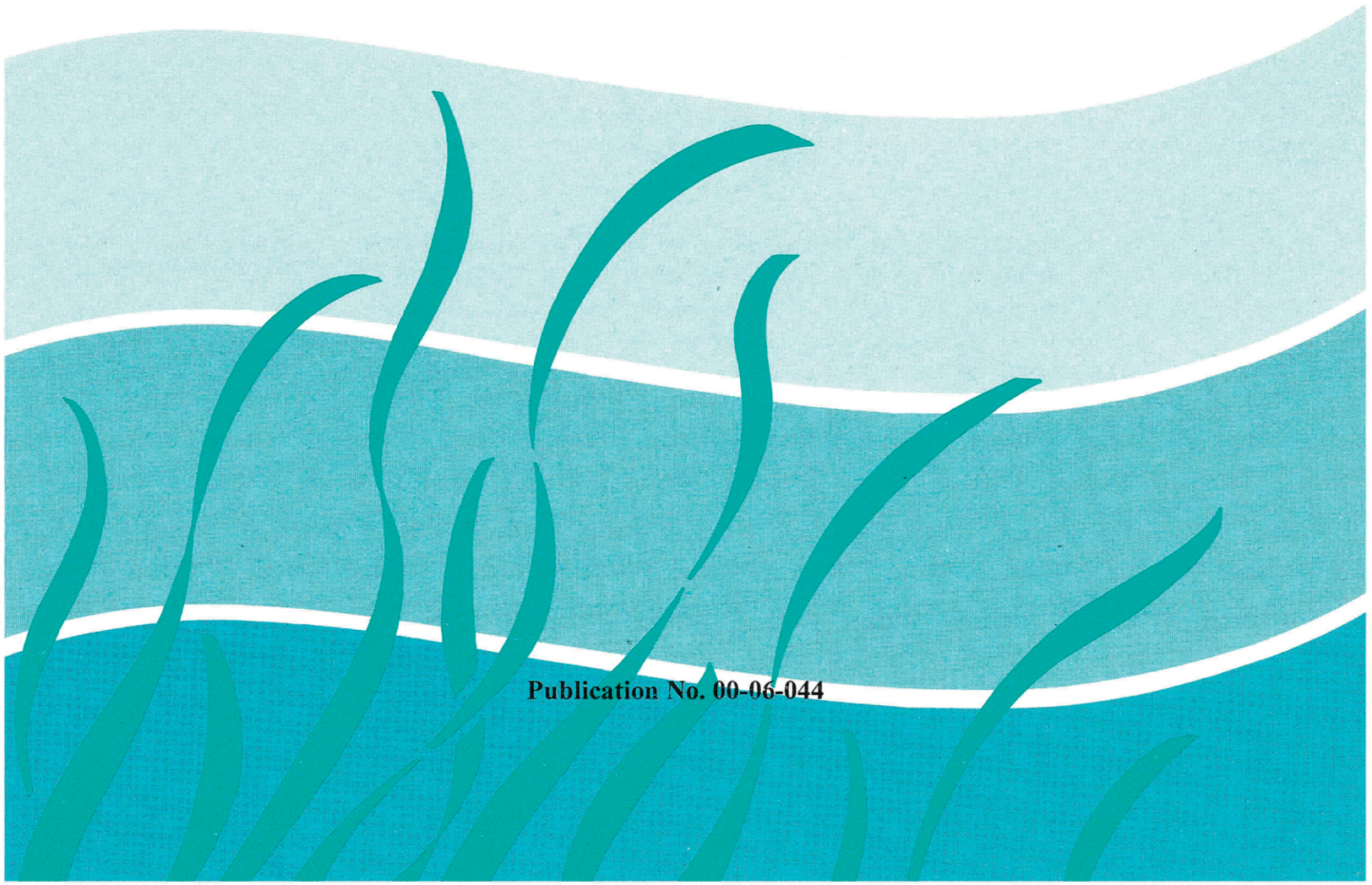
Padilla Bay
National Estuarine Research Reserve

Technical Report No. 21
Appendices

BENTHIC ASSEMBLAGES OF THE PADILLA BAY NATIONAL ESTUARINE RESEARCH RESERVE, MOUNT VERNON, WASHINGTON

Gary Ray

August 1997



Publication No. 00-06-044

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Padilla Bay National Estuarine Research Reserve is managed by the Shorelands and Environmental Assistance Program, Washington State Department of Ecology, in cooperation with the Estuarine Reserves Division, National Oceanic and Atmospheric Administration (NOAA), U.S. Department of Commerce. The preparation of this document was financially aided through a grant to the Washington State Department of Ecology with funds obtained from NOAA/Office of Ocean and Coastal Resource Management, and appropriated for Section 306 or 315 of the Coastal Zone Management Act of 1972, as amended.

WASHINGTON STATE DEPARTMENT OF ECOLOGY

NOAA NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION U.S. DEPARTMENT OF COMMERCE

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August 1997

Appendices to a report of the
Washington State Department of Ecology (Publication No.),
Padilla Bay National Estuarine Research Reserve

Padilla Bay National Estuarine Research Reserve
Shorelands and Environmental Assistance Program
Washington State Department of Ecology

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Bibliographic citation: Ray, G. 1997. Benthic Assemblages of the Padilla Bay National Estuarine Research Reserve, Mount Vernon, Washington—Appendices. Washington State Department of Ecology Publication No., Padilla Bay National Estuarine Research Reserve Appendices to Technical Report No. 21, Mount Vernon, Washington. 91pp.

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Appendix Table 1. Species Lists and Abundance (No./45 cm2)
Unvegetated Intertidal (Bare) Stations

	Station Number					
	42	72	209	213	215	220
TAXON						
Barantolla americana	3		1	1	6	3
Mediomastus sp.						5
Arenicola pacifica			2			
Malacoceros glutaeus						6
Polydora ligni				10	1	1
Pseudopolydora kempi	23	3	11	2	4	
Streblospio benedicti	17	9	164	105	14	2
Fabricia sabella		14	199	143	117	
Chaetozone actuta					28	
Tharyx parvus		16		4		
Brania brevipharyngea						25
Exogene molesta	5	1	39		1	
Eteone longa				1		
Glycinde armiger						1
Tubificoides foliatus	2	17	164	1	8	
Tubificidae sp. 2		1				
Clinocardium nuttallii						1
Mysella tumida		1				
Transenella tantilla		1				1
Admete gracilior					1	3
Batillaria zonalis					1	
Lacuna porrecta				6		
Anisogammarus pugettensis						2
Corophium acherusicum	33	152	118	6	27	8
Ampithoe valida		10				
Ericthonius hunteri	26	9	1		2	
Eobrolgus spinosus						3
Leptocuma sp. 1		31		1	4	7
Leucon sp.	8	87	2	1	8	
Leptochelia savigni	3	6	5	1		48
Pancolus californiensis	3		1	82	50	
Collembolla				11		

Appendix Table 2. Species Lists and Abundance (No./45 cm2) for Ulva Stations

	Station Number																			
	93	91	98	74	223	219	85	67	218	202	92-1	92-2	92-3	92-4	92-5	71-1	71-2	71-3	71-4	71-5
TAXON																				
Barantolla americana	4		6	4	1			8			2				1	1			1	
Capitella sp.						1				10		1		6	2		1			
Mediomastus sp.				1	2	1	6		12				1	5		1	1	1	2	
Scoloplos armiger				1							2	2	2		3				1	
Armandia brevis								2			1			1					1	
Malacoceros glutaeus				1	45	30	2	31	26	2	9	25	41	21	10	24	6	19	25	24
Dipolydora quadrilobata	1		1				1				5	12	11	6	12					2
Spio cirrifera																				
Streblospio benedicti	5		25	2		66		144	216											
Axiothella rubrocinta					6			1		4	3		1	2	2			2		
Owenia fusiformis					1		3	2	1									1		
Tharyx parvus	1								1											
Eupolymnia heterobranchia							1			3				3	1					
Exogene molesta		1	1	6	152	19	2	65	27	185	52	68	128	123	142	187	62	144	90	110
Eteone longa						1			2											
Phylloduce maculata																				
Phylloduce multiseriata																				
Platynereis bicanaliculata				1			1		1	8	4	9	17	17	3		1		4	
Nepthys caecoides																1				1
Nepthys cornuta franciscana												1								
Glycera tesselata											1			1						
Glycinde armiger				1					2		2	1						2	1	
Ophiodromus pugettensis							1			1									3	
Schistomeringos pseudorubrovittata									1	6				4				1		
Harmothoe imbricata				3						3				4	5	1	1		2	
Harmothoe lunulata													1	1						
Pholoe minuta										1										
Unidentified Polychaete Sp. 1											8	15	22	11	24					

Appendix Table 2 (Cont.) Ulva Stations

	Station Number																			
	93	91	98	74	223	219	85	67	218	202	92-1	92-2	92-3	92-4	92-5	71-1	71-2	71-3	71-4	71-5
TAXON																				
Tubificoides foliatus	19	1	66	5	15	11	1	35	22	108						32	26	21	28	35
Grania paucispina										46										
Macoma nasuta								1	2											
Mysella tumida					3	1		1	3	7		1	1	1	1					
Tellinidae																				
Transenella tantilla	4	4	3	1	28	8		11	7	10		1							1	1
Admete gracilior		1																		
Haminoea vesicula															1	1				
Lacuna porrecta			1	50				1			3	1		12	2	2			1	
Odostomia (Odostomia) sp.				1																
Anisogammarus pugettensis						6		6		3										
Eogammarus confericulus																				
Corophium acherusicum	34	3	54		22	5	118	2	11	3	35	11	3	24	9	4	1		1	3
Ampithoe valida	1									4	2			7	2	1	1		1	
Ericthonius hunteri		1		1			4	8			15	1								
Eobrolgus spinosus	26		7		40	13	57	1	21	15	2	1	2	1			1	1		2
Caprella laeviscula													1	1						
Idotea rufuscens							1			11										
Munna fernaldi										3	1	8	8	18		1				1
Leptocuma sp. 1	9		7	1	18	7	49	30	12	16	85	23	64	53		10	2	33	14	42
Leucon sp.	1		11				4		1	2	1	4	29			1		1	1	2
Leptochelia savigni	18	20	5	15	179	127	211	181	262	168	28	29	111	141	47	51	28	78	54	131
Pancolus californiensis		6						6		2	6			30					1	
Anoplodactylus virintestinalis										32			1	2						
Majidae							1													
Pinnixia tubicola							1			2					1				1	
Amphiodia occidentalis										1										
Leptosynapta clarki										5										
Nemertea																				
Enteroneusta											3		3	2		2	1	2	2	

Appendix Table 2 (Cont.) Ulva Stations

	Station Number														
	224-1	224-2	224-3	224-4	224-5	222-1	222-2	222-3	222-4	222-5	221-1	221-2	221-3	221-4	221-5
TAXON															
Barantolla americana							1				5	2	1	7	1
Capitella											1				
Mediomastus sp.	1	1	1	4	5	1					6	2	1		
Scoloplos armiger												1		1	
Armandia brevis															2
Malacoceros glutaeus	27	24	59	17	46	24	7	12	11	13	9	4	12	29	21
Dipolydora quadrilobata		1												1	
Spio cirrifera															2
Streblospio benedicti	16	24	93	32	59	4			1				3		10
Axiothella rubrocinta						3	1		2	1					1
Owenia fusiformis	1		2	1	3	1	2	1	1		9	3		23	
Tharyx parvus															
Eupolymnia heterobranchia															
Exogene molesta	40	10	29	46	15	112	150	162	142	273	61	11	62	87	25
Eteone longa															
Phylloduce maculata			3												
Phylloduce multiseriata	1											1			
Platynereis bicanaliculata								1		1	2	1		1	
Nepthys caecoides		1													
Nepthys cornuta franciscana															
Glycera tesselata															
Glycinde armiger								2	1					1	1
Ophiodromus pugettensis		1						3			1		1	1	
Schistomeringos pseudorubrovittata															
Harmothoe imbricata								1						2	1
Harmothoe lunulata															
Pholoe minuta															
Unidentified Polychaete Sp. 1															

Appendix Table 2 (Cont.) Ulva Stations

	Station Number														
	224-1	224-2	224-3	224-4	224-5	222-1	222-2	222-3	222-4	222-5	221-1	221-2	221-3	221-4	221-5
TAXON															
Tubificoides foliatus	23	8	9	11	17	14	23	7	17	20	41	5	34	48	25
Grania paucispina														4	
Macoma nasuta			1	1							5	1	2	3	1
Mysella tumida		1	2	1	2						10	1	6	12	2
Tellinidae											1				
Transenella tantilla	18	36	44	35	19	18	13	1	4	14	19	8	13	13	10
Admete gracilior								1							
Haminoea vesicula															
Lacuna porrecta										1		1	4		
Odostomia (Odostomia) sp.															
Anisogammarus pugettensis							2			3	15		8	1	16
Eogammarus confericulus											2				
Corophium acherusicum	3	10	1		1	24	59	51	82	80	4	1	2	2	76
Ampithoe valida				1							1				
Ericthonius hunteri													1		1
Eobrolgus spinosus	3	20	31	8	47	8	11	9	19	4	9	2	14	11	11
Caprella laeviscula															
Idotea rufuscens	1	2		1											
Munna fernaldi															
Leptocuma sp. 1	5	10	17	1	5	11	9	6	17	6	4	5		5	1
Leucon sp.				1						1		3			
Leptochelia savigni	83	151	234	106	193	49	61	162	124	195	104	42	143	160	30
Pancolus californiensis	1										5	2	2	2	
Anoplodactylus virintestinalis															
Majidae															
Pinnixia tubicola														1	1
Amphiodia occidentalis															
Leptosynapta clarki															
Nemertea		1													
Enteroneusta						1		1	3	1					

Appendix Table 3. Species Lists and Abundance (No./45 cm2) for Zostera japonica Stations

	Station Number																					
	63	69	212	214	216	52	50	30	44	47	68-1	68-2	68-3	68-4	68-5	210-1	210-2	210-3	210-4	210-5	55-1
TAXON																					
Barantolla americana	12	1			5	5	11	3	2	5	7	4		1		7	6	4	4		12
Capitella sp.		7	1	2									1		4						
Notomastus tenuis		1																			
Arenicola pacifica																		2			
Scoloplos armiger										1											
Malacoceros glutaeus		5			3	3		6	1												
Polydora ligni		1	6	5				2	4				1					1			
Polydora quadrilobata	9		9	11	1	18	9		8	37	9	16	28	5	21	2	1		9	2	19
Streblospio benedicti	27		10	13			2			8	2		2			1			3		
Axiothella rubrocinta		4			1	5		29	4	10			14								
Nichomache persona																					
Chone mollis											1			7							
Fabricia sabella	10			84								1				3	2	5	27	4	1
Chaetozone actuta				4																	
Tharyx parvus	3									2		4	5		8	3	3	2	17	17	
Polycirrus sp.	1	1		6							2	2	2	2	3						
Brania brevipharyngea	3	3	4	5	6	1	2		1	24	3	6	10	11			1				7
Exogene molesta		56			3	36	8	440		18						1	3	1	1		2
Eteone longa	1		1													2	3	2	8	5	
Eulalia (Eumida) tubiformis																					
Phylloduce maculata										1											
Platynereis bicanaliculata		2	1					1													
Nepthys caecoides										1											
Glycinde armiger														1							
Lumbrineris californiensis		2																			
Harmothoe imbricata		1						2						1							
Unidentified Polychaete Sp. 1											18	12	11	1	3						
Tubificoides foliatus	5	14	14	9	2	14	3	61	3	23						2	10	4	11	23	4
Amphichaeta sp.			1														3			1	
Macoma nasuta																					
Prothaca staminea			1													1					

Appendix Table 3 (Cont.) Zostera japonica Stations

	Station Number																				
	63	69	212	214	216	52	50	30	44	47	68-1	68-2	68-3	68-4	68-5	210-1	210-2	210-3	210-4	210-5	55-1
TAXON																					
Transenella tantilla			3					69													
Batillaria zonalis	2		7	1	2	1	1		2		3	4		2	2		3	1	1	2	2
Crepidula adunca														1							
Haminoea vesicula						1			2	1		1									
Lacuna porrecta								1						1							
Nassarius fraterculus		2												1							
Odostomia (Odostomia) sp.				1																	
Anisogammarus pugettensis		2	10		2				1			1	2		1						
Eogammarus confericulus														1	1	2	3	3	4	1	
Photis brevipes				1																	
Amphilocus litoralis	1																				
Stenothoidae					1																
Orchomene cf pinguis																					
Corophium acherusicum	64	73	168		54	110	105	368	36	110	80	39	38	137	6	88	118	67	140	70	120
Ampithoe valida	1	41	1	13	7	1	1		4		20	51	35	43	5		6	11	10		9
Ericthonius hunteri	33	17	13			1	76		7	8	28	14	17	19		3	6	5		2	44
Eobrolgus spinosus		13	10		16	34	12	105	8	5	9	4	1	6	13		1				1
Caprella laeviscula		17																1			
Idotea rufuscens								2													3
Munna fernaldi		2	1			1												1			
Eudorella sp.									1												
Leptocuma sp. 1	3	12	176	7	17	61	26	38	6	58	10	8	5	23			3	7	7		15
Leucon sp.	44	23	32	22	4	4	18		7	17	62	41		72	2	3	4	12	2	1	105
Leptochelia savigni		62	41	2	2	1	2	802	2	10			1	1		1	1	4			
Pancolus californiensis		11			1	2	1	15	1	1	2			5	3	41	158	84	174	55	
Nebalia sp.																					
Chironomidae																					
Hemigrapsus sp.																					
Leptosynapta clarki								5													
Nemertea				1		1															
Enteroneusta	1			3	1	1				4	1				1						

Appendix Table 3 (Cont.) Zostera japonica Stations

	Station Number													
	55-2	55-3	55-4	55-5	51-1	51-2	51-3	51-4	51-5	45-1	45-2	45-3	45-4	45-5
TAXON														
Barantolla americana	12	5	9	2	2	9	7	4	5	13	13	16	5	5
Capitella sp.														
Notomastus tenuis		2												
Arenicola pacifica		2												
Scoloplos armiger														
Malacoceros glutaeus								2						
Polydora ligni	2		2											
Polydora quadrilobata	23	15	17	27	37	42	36	17	15	3	10	19	5	10
Streblospio benedicti				2	1	2		1				1		
Axiothella rubrocinta					1	6	1	3	12					
Nichomache persona					1		1	4	2					
Chone mollis														
Fabricia sabella														1
Chaetozone actuta														
Tharyx parvus					2	1	4		3					
Polycirrus sp.														
Brania brevipharyngea	17	11	2		1	7	12	1	1	35	40	48	18	6
Exogene molesta	1	1			2	7	3	7	7				1	
Eteone longa					1		3		1					
Eulalia (Eumida) tubiformis			1											
Phylloduce maculata														
Platynereis bicanaliculata													1	
Nepthys caecoides														
Glycinde armiger														
Lumbrineris californiensis											2			
Harmothoe imbricata														
Unidentified Polychaete Sp. 1														
Tubificoides foliatus			2	1	21	38	19	10	9					
Amphichaeta sp.														
Macoma nasuta			1											
Prothaca staminea														

Appendix Table 3 (Cont.) Zostera japonica Stations

	Station Number													
	55-2	55-3	55-4	55-5	51-1	51-2	51-3	51-4	51-5	45-1	45-2	45-3	45-4	45-5
TAXON														
Transenella tantilla														
Batillaria zonalis	4	3	4	3			1		1	5	3	6	2	
Crepidula adunca														
Haminoea vesicula					2	3		1						
Lacuna porrecta														
Nassarius fraterculus			1			2		1						
Odostomia (Odostomia) sp.														
Anisogammarus pugettensis							3							
Eogammarus confericulus	8		2		1							11	5	
Photis brevipes														
Amphilocus litoralis														
Stenothoidae														
Orchomene cf pinguis										4				
Corophium acherusicum	65	78	52	16	95	134	117	64	47	81	69	104	95	44
Ampithoe valida	27	4	4	1		4	4			16	8	11	8	2
Ericthonius hunteri	33	40	15	2	3				1	65	55	140	34	14
Eobrolgus spinosus		1	3	2	14	18	6	34	11		1			
Caprella laeviscula					1									
Idotea rufuscens														1
Munna fernaldi	1		1										1	
Eudorella sp.														
Leptocuma sp. 1	28	19	10		31	56	44	35	2	2	7		1	7
Leucon sp.	71	94	55		3	1	1			16	21	12	16	
Leptochelia savigni	1	2				1		1	1		1	2		
Pancolus californiensis			1	1	1	4	5	2	2	2	1	2	2	2
Nebalia sp.									1					
Chironomidae					1						1			
Hemigrapsus sp.										1				
Leptosynapta clarki														
Nemertea														
Enteroneusta					1	1	2	2	1					

Appendix Table 4. Species Lists and Abundance (No./45 cm2) for Low Density Zostera marina Stations

	Station Number																		
	34	36	37	54	56	70	73	200	211	217	33-1	33-2	33-3	33-4	33-5	53-1	53-2	53-3	53-4
TAXON																			
Barantolla americana	7	8	7	25	24	5	46	5	2	12	4	6	14	9	3	14	18	1	6
Heteromastus filiformis														5	1				
Mediomastus sp.			1	2				5											
Notomastus tenuis								1											
Nainereis uncinata												2							
Scoloplos armiger				1	1		7				1								
Armandia brevis	1								1										
Malacoceros glutaeus	7	8	28	4		11	5			1	1	9	2	16		8	4	3	2
Polydora ligni			1	2					2	1						6	2		1
Polydora quadrilobata		1	1		2		1												
Spio cirrifera				1								4							
Streblospio benedicti			1																
Axiothella rubrocinta	14	21	7	7			4	16			12	9	13	10	8	2	9	22	4
Nichomache persona																			
Owenia fusiformis						2													
Chone mollis			1								3				1				
Fabricia sabella															1				
Chaetozone actuta															2				
Tharyx parvus		4					1				4	1	2						
Eupolymnia heterobranchia	1	7	1	1	1		1			3	5	2	1		7	1	2	3	1
Spirorbis spirillum				2												1	6	2	
Brania brevipharyngea							10	1	1										
Exogene molesta	117	277	266	159	113	31	63	452	6	59	99	54	122	186	61	133	128	298	179
Eteone longa	1																		
Notophyllum tectum											1								
Phylloduce maculata																1	1		
Platynereis bicanaliculata			1		1		7	5	27	4	1		2		3		2		1
Nepthys caecoides					1											1			
Glycinde armigera						1				2									
Lumbrineris californiensis									1		1								
Ophiodromus pugettensis	2	1	2		2	1		4		4	4	1	4	4	1				

Appendix Table 4 (Cont.) Low Density Zostera marina Stations

	Station Number																		
	34	36	37	54	56	70	73	200	211	217	33-1	33-2	33-3	33-4	33-5	53-1	53-2	53-3	53-4
TAXON																			
Schistomeringos pseudorubrovittata	1				2					5	13	2	2		1				
Harmothoe imbricata	1			2			1	3			1				2		4	1	
Tubificoides foliatus	52	168	74	61	16	69	27	134	31	21	98	14	32	37	39	58	38	35	20
Grania paucispina	5							4		25	12	2	15	4	6	4			
Corbula sp.																		1	
Macoma nasuta						2				1									
Macoma sp.			1																
Mysella tumida	1						2	2		2	5			2					
Prothaca staminea																			
Transenella tantilla	5	3	1	2		4		62		4	5	6	8	15	5	3	2		1
Batillaria zonalis											1								
Haminoea vesicula	1					5										1	1		1
Lacuna porrecta										1							2		
Odostomia (Odostomia) sp.										5	1					1			
Solariella perambilis															1				
Monculodes sp.																			
Corophium acherusicum	5	4	17	14	9	1	30	71	29	8		1	4	4	3	16	6	21	9
Ampithoe valida	1						2												
Ericthonius hunteri									2										
Eobrolgus spinosus	18	25	4	7	9		1	4	21	12	1	5	3	10	16	5	1	2	4
Caprella laeviscula						1	2	1	3	3							2		
Caprella striata																			
Idotea resecata																			
Idotea rufuscens	1	2	1		1			5			1								
Munna fernaldi				1	2		1									1	6	1	
Leptocuma sp. 1	4		2	6			3	2	28						2	1		2	3
Leptocuma sp. 2																			
Leucon sp.							11		31			1							
Oxyurostylis sp.																			
Leptochelia savigni	293	233	175	124	81	41	22	758	56	50	102	104	218	333	101	109	123	299	128
Pancolus californiensis		2	7	11	16		3	17	4	3					7	4	8	32	9

Appendix Table 4 (Cont.) Low Density Zostera marina Stations

	Station Number																		
	34	36	37	54	56	70	73	200	211	217	33-1	33-2	33-3	33-4	33-5	53-1	53-2	53-3	53-4
TAXON																			
Nebalia sp.											1					2	1		
Anoplodactylus virintestinalis	1					1		1		4		1	1						
Collembolla																			1
Pinnixia tubicola	1						1			3			1		1				
Amphiodia occidentalis	1	3		1				2		1		1	2	1	1				
Leptosynapta clarki	2	5	1	1				5			1	5	3	3	5	1			
Nemertea									1		3				1				
Enteroneusta																	1		

Appendix Table 4 (Cont.) Low Density Zostera marina Stations

	Station Number															
	53-5	61-1	61-2	61-3	61-4	61-5	64-1	64-2	64-3	64-4	64-5	207-1	207-2	207-3	207-4	207-5
TAXON																
Barantolla americana	4	2			4	1	2	1	5	1	6	3	8	4	1	18
Heteromastus filiformis																
Mediomastus sp.		2	5		2	3			3	1						1
Notomastus tenuis																
Nainereis uncinata																
Scoloplos armiger	2	2	1		1							1	3	1	5	3
Armandia brevis									1		1					
Malacoceros glutaeus	10	21	21	56	15	5	3	5	12	31	4	4	7	2	6	
Polydora ligni	1	2	1	1		3										
Polydora quadrilobata												1	1	1	7	
Spio cirrifera														1		
Streblospio benedicti						6									2	
Axiothella rubrocinta	17	2	6	4	3	6										
Nichomache persona		3														
Owenia fusiformis																
Chone mollis																
Fabricia sabella																
Chaetozone actuta												1			1	1
Tharyx parvus																1
Eupolymnia heterobranchia	3	1	2		4	3	2	1	2	3	2		2	1	1	3
Spirorbis spirillum																
Brania brevipharyngea		1	5		5	10					1	1			2	1
Exogene molesta	75	111	132	49	183	52	39	34	39	61	58	27	57	51	69	73
Eteone longa																
Notophyllum tectum																
Phylloduce maculata				1						2						
Platynereis bicanaliculata	2	1	6		5	3	2	1	2	1	6	2	2	2	4	1
Nepthys caecoides																
Glycinde armigera		1			1		1			1	1			1		
Lumbrineris californiensis																
Ophiodromus pugettensis			3	1	1		1		1		1		1			1

Appendix Table 4 (Cont.) Low Density Zostera marina Stations

	Station Number															
	53-5	61-1	61-2	61-3	61-4	61-5	64-1	64-2	64-3	64-4	64-5	207-1	207-2	207-3	207-4	207-5
TAXON																
Schistomeringos pseudorubrovittata													1	3	2	1
Harmothoe imbricata	1	1	1		1	1	6	1			5		1	2	1	
Tubificoides foliatus	48	34	56	45	30	12	8	16	8	8	4	7	28	10	6	13
Grania paucispina		4	3	1	4	2	5	5		5	24					
Corbula sp.																
Macoma nasuta		1	1				1		1				1			
Macoma sp.																
Mysella tumida			1		1			2	1		4					
Prothaca staminea					1											
Transenella tantilla	1	5			1	1	1	2	6	4	1		1	1		
Batillaria zonalis																
Haminoea vesicula	1															
Lacuna porrecta	1			1			1	2	3	1	4					
Odostomia (Odostomia) sp.																
Solariella perambilis																
Monculodes sp.					1				2							
Corophium acherusicum	1	11	8	14	4	5			2	2				7	2	8
Ampithoe valida										1						
Ericthonius hunteri		1			2											
Eobrolgus spinosus	1		1	3	7	3	1		1	1	2		3	7	15	7
Caprella laeviscula																
Caprella striata		1														
Idotea resecata			1									2			1	
Idotea rufuscens		1			3		1							1		
Munna fernaldi	2				1											
Leptocuma sp. 1		1	1	1	11			1	1	19	1		2			
Leptocuma sp. 2						1										
Leucon sp.			1		2				6			1	1	1	2	
Oxyurostylis sp.			4													
Leptochelia savigni	140	77	71	63	149	44	54	41	125	70	72	38	98	102	150	96
Pancolus californiensis	37	12	5		5	3	14	2	2	3		1	4	6	10	6

Appendix Table 4 (Cont.) Low Density Zostera marina Stations

	Station Number															
	53-5	61-1	61-2	61-3	61-4	61-5	64-1	64-2	64-3	64-4	64-5	207-1	207-2	207-3	207-4	207-5
TAXON																
Nebalia sp.																
Anoplodactylus virintestinalis														1		
Collembolla																
Pinnixia tubicola			1	1	1		1	2	1	1	1					
Amphiodia occidentalis		2	2	1	2								1			
Leptosynapta clarki		2	6	5	2											
Nemertea																
Enteroneusta													1			

Appendix Table 5. Species Lists and Abundance (No./45 cm2) for High Density Zostera marina Stations

	Station Number																				
	11	12	14	15	18	22	27	49	206	208	4 (1)	4 (2)	4 (3)	4 (4)	4 (5)	6(1)	6(2)	6(3)	6(4)	6(5)
TAXON																				
Barantolla americana	4	4		3		1	1	5	2	7		1	2		2	3	3	1	8	1
Mediomastus sp.		10	2	1	1	3		3		1	2			1		4	6	4	7	11
Notomastus tenuis											2	7								
Scoloplos armiger	2			3	1							1					1	2		
Armandia brevis	1	5		1						1	2			3			2	1		
Pherusa plumulosus																				
Malacoceros glutaeus	8	3	11	8	14	7	8	2	11			1	1	2	2	3	4	4	1	1
Dipolydora quadrilobata					2		1			1										
Dipolydora socialis																				
Prionospio cirrifera														1						
Axiothella rubrocinta	4		5	4	10	4	10	5	3	5	1									
Owenia fusiformis		8		3								3	5	7	2	5	4	5	3	2
Chone mollis		1						1	1					1						
Chaetozone actuta		3										2								
Tharyx parvus																				
Eupolymnia heterobranchia	1					2	1	4	1	2									1	
Spirorbis spirillum			1						1			5								
Brania brevipharyngea	1		2	7			2	6	2	5										
Exogene molesta	29	17	128	108	219	111	226	196	60	91	1	12	1		1	6	8	4	69	8
Eteone longa																				
Eulalia (Eumida) tubiformis			1																	
Phylloduce maculata		1		1	1			1									1	2		
Platynereis bicanaliculata	1	2		9				4	1	2		3			2		2		5	
Nepthys caecoides		1									1					1	1			
Glycera americana	1																	1		
Glycinde armigera	1		1	1							1				1		1	3	2	3
Lumbrineris californiensis			1	2															3	
Ophiodromus pugettensis	3			3	1	3	1	2	1	1	1	3	1	2	7	2			2	
Schistomeringos pseudorubrovittata				14				2			5	14	1	4	15	5	2	6	16	5
Harmothoe imbricata	4		1	1			1	3		1		2						1	1	2
Pholoe minuta																2			1	

Appendix Table 5 (Cont.) High Density Zostera marina Stations

	Station Number																			
	11	12	14	15	18	22	27	49	206	208	4 (1)	4 (2)	4 (3)	4 (4)	4 (5)	6(1)	6(2)	6(3)	6(4)	6(5)
TAXON																				
Unidentified Polychaete Sp. 1		1																		
Tubificoides foliatus	10	15	89	22	24	62	19	112	15	21	15	12	16	27	14	35	34	20	40	22
Grania paucispina		8		32				2											30	3
Acila castraensis																				
Macoma nasuta	2								1		1				1				1	1
Mysella tumida	3	6	1	18	1	2	1				5	10	5	10	20	29	38	1	25	23
Prothaca staminea						1														
Transenella tantilla		3	4	3	51	1	30	4			1			5						
Unidentified Bivalve Sp. 1																				1
Batillaria zonalis								1												
Haminoea vesicula																				
Lacuna porrecta		5		1								1					1			
Odostomia (Chrysallida) sp.							1						1				1		1	
Odostomia (Odostomia) sp.																				
Solariella perambilis														1		1				
Ampelisca pugetica		1									1	1			1		1		2	
Photis brevipes																	8	2	1	1
Monculodes sp.				1		1							1					1	1	
Pontogeneia sp.				2					3										2	
Corophium acherusicum	6	2	2	6	115	8	168	4		1						1	1	1	2	
Cheirimedeia macrodactyla		7																		
Ericthonius hunteri				1																
Eohaustorius washingtonianus																				
Eobrolgus spinosus	15	2	5	44	14	7	14	6	8	1	5	15			3	12	25	9	9	11
Rhepoxynius tridentata						1														
Caprella laeviscula					1															
Caprella striata		1		1																
Idotea resecata																				
Idotea rufuscens	1				2							1								
Munna fernaldi				2	1	1														
Leptocuma sp. 1			3		8		21	1	1	1										

Appendix Table 5 (Cont.) High Density Zostera marina Stations

	Station Number																			
	11	12	14	15	18	22	27	49	206	208	4 (1)	4 (2)	4 (3)	4 (4)	4 (5)	6(1)	6(2)	6(3)	6(4)	6(5)
TAXON																				
Leptocuma sp. 2				1																
Leucon sp.						1					1									
Leptochelia savigni	58	56	123	231	523	77	447	198	41	73	20	67	11	5	4	30	34	20	29	10
Pancolus californiensis	1		2		3		12	8		4		2			1					
Nebalia sp.					1			1						1	2		1			
Anoplodactylus virintestinalis		17	3	13				1				2	1			1				
Collembolla																				
Cancer magister		3																	1	
Pinnixia tubicola									1				1							
Amphiodia occidentalis	2		2	2					2			1	1	1	2				3	
Leptosynapta clarki	7	1	4	14	5	4	6	3			9	11	1	10	7	12	9	11	11	14
Nemertea															1		1			
Enteroneusta																				

Appendix Table 5 (Cont.) High Density Zostera marina Stations

	Station Number														
	46(1)	46 (2)	46 (3)	46 (4)	46 (5)	57(1)	57 (2)	57 (3)	57 (4)	57 (5)	204 (1)	204 (2)	204 (3)	204 (4)	204 (5)
TAXON															
Barantolla americana	4	8	18	17		8	1	1		1	15	13	20	8	33
Mediomastus sp.	2	4	6						3			7	7	1	1
Notomastus tenuis				5	3							7	1	2	2
Scoloplos armiger					1	1							1		
Armandia brevis		1	1		1										1
Pherusa plumulosus	1														
Malacoceros glutaeus	7	14	9	7	4	32	38	12	8	1		1	3	2	2
Dipolydora quadrilobata									2	2					
Dipolydora socialis	1														
Prionospio cirrifera			1												
Axiothella rubrocinta	9	6	6	4	4	7	12	12	16	14		1	3		
Owenia fusiformis	1				2						3	1	1		
Chone mollis	1		1				2			2					
Chaetozone actuta		3							3						
Tharyx parvus				1			3	5	5	1					1
Eupolymnia heterobranchia	17	3	5	2	1	4	5	5	4	14	2		4	1	5
Spirorbis spirillum						1	1	3		2					
Brania brevipharyngea	3			2	3	2	2				6	3	12		9
Exogene molesta	75	70	76	56	20	61	120	133	62	77	339	91	165	85	60
Eteone longa	1														
Eulalia (Eumida) tubiformis															
Phylloduce maculata				1			1				1	1			
Platynereis bicanaliculata	4	3	4		2	4	1	15	7	4	3	3	2	3	5
Nepthys caecoides												1			
Glycera americana															
Glycinde armigera											1			1	
Lumbrineris californiensis	1														
Ophiodromus pugettensis	1	2	4	1	4		1			2	4	3	7	2	5
Schistomeringos pseudorubrovitt	5	6	2	2						3	3	1	4	3	9
Harmothoe imbricata	3	1	1	1	6			1	2	4	2		1		6
Pholoe minuta	1	1	1												1

Appendix Table 5 (Cont.) High Density Zostera marina Stations

	Station Number														
	46-1	46-2	46-3	46-4	46-5	57-1	57-2	57-3	57-4	57-5	204-1	204-2	204-3	204-4	204-5
TAXON															
Unidentified Polychaete Sp. 1															
Tubificoides foliatus	46	102	78	39	9	43	45	18	32	6	18	12	29	16	18
Grania paucispina	10	2		18				16	18	9	30		39	3	2
Acila castraensis	1														
Macoma nasuta	2		1	1	1		1		2			2		1	2
Mysella tumida		5		3	1		4			1		1	3	2	2
Prothaca staminea															
Transenella tantilla	3	4		1	1	1	7					1			
Unidentified Bivalve Sp. 1															
Batillaria zonalis					1	3	2			2					
Haminoea vesicula	4					1					2		1		
Lacuna porrecta	1				1									1	1
Odostomia (Chrysallida) sp.					2							1	1		8
Odostomia (Odostomia) sp.															1
Solariella perambilis			1		1										
Ampelisca pugetica	1														
Photis brevipes									1						
Monculodes sp.						2	1					1		1	
Pontogeneia sp.				1	1			1	1						
Corophium acherusicum		1			2	12	8	2		7	65	28	19	18	24
Cheirimedeia macrodactyla							1								
Ericthonius hunteri										1		1			
Eohaustorius washingtonianus			1												
Eobrolgus spinosus	16	15	7	8	1	25	13	11	6	13	14	4	8	11	16
Rhepoxynius tridentata															
Caprella laeviscula								1		4					
Caprella striata	1														
Idotea resecata						4		1							3
Idotea rufuscens	1		3							1	2	1	1		
Munna fernaldi						3	2				1	2	1		
Leptocuma sp. 1		1		1		2	2							4	3

Appendix Table 5 (Cont.) High Density Zostera marina Stations

	Station Number														
	46-1	46-2	46-3	46-4	46-5	57-1	57-2	57-3	57-4	57-5	204-1	204-2	204-3	204-4	204-5
TAXON															
Leptocuma sp. 2											22	6	6		
Leucon sp.											2	2		1	
Leptochelia savigni	42	70	67	37	20	158	243	60	36	77	88	35	32	38	23
Pancolus californiensis			2	3		1	1	1	1	2	3	1	3		
Nebalia sp.				1											
Anoplodactylus virintestinalis		1		1		1	4	9							
Collembolla														1	
Cancer magister															
Pinnixia tubicola	1							2	2		2		5	1	1
Amphiodia occidentalis	2	5	5		5	5		3	5	6	6		1	2	1
Leptosynapta clarki	8	5	5	4	3				4	2					
Nemertea			2												
Enteroneusta															1

Appendix Table 6. Species Lists and Abundance (No./45 cm2) for Subtidal Zostera marina Stations

	Station Number																		
	16	17	28	43	58	62	60	201	225	226	31-1	31-2	31-3	31-4	31-5	48-1	48-2	48-3	48-4
TAXON																			
Barantolla americana	2		3	9	14	9	1	1	12	21	3	7	3	1	1	13	4	8	2
Capitella sp.																			
Mediomastus sp.	1			2	3	9			10		1		1	3		1		2	
Notomastus tenuis																	1		
Scoloplos armiger		1	1	1				1	2	1		2					1	1	
Armandia brevis				1					1		1					1	3	1	2
Pherusa plumulosus																1			
Malacoceros glutaeus	1			4	3	13	1				1	1		2		4	7	2	6
Dipolydora quadrilobata				2				1											
Dipolydora socialis																			
Prionospio cirrifera			2										1				5	1	15
Prionospio steenstrupi									14										
Spio cirrifera				2													3		2
Streblospio benedicti				2		1													
Axiothella rubrocinta						4	1		2							2	4	1	4
Owenia fusiformis			3						9	45		1				11	11	21	18
Chone mollis																			
Chaetozone actuta														1					
Cirratulus cirratus		2				4													
Tharyx parvus							1												
Ampharete goesi brazhnikova								1	1								2	1	
Eupolymnia heterobranchia	1		1			4	2				1		1	1	2				1
Pista cristata																			
Spirorbis spirillum						1	1												
Brania brevipharyngea				2	2	8	2				3	4			1				
Exogene molesta		22	1	9	4	123	17	4	20	1	31	28	2	72	1	3	8	7	6
Eulalia (Eumida) tubiformis													1					1	
Phylloduce maculata						1			1										
Platynereis bicanaliculata		8				14	5	3		1		2	1	3	2	1		3	2
Ophiodromus pugettensis	1	3		2	1	4	1	1	1		1		2	3	1	1	4	1	1
Schistomeringos pseudorubrovittata	12	10	2			3	4	2			13	35	16	18	10				

Appendix Table 6 (Cont.). Subtidal Zostera marina Stations

	Station Number																		
	16	17	28	43	58	62	60	201	225	226	31-1	31-2	31-3	31-4	31-5	48-1	48-2	48-3	48-4
TAXON																			
Harmothoe imbricata		1	1			3			2									2	5
Pholoe minuta		1	1		1		1		1		4	1	1	2					
Tubificoides foliatus	79	8	5	65	127	69	2	3	50	39	41	38	25	43		15	5	23	10
Grania paucispina					3	49	4		28		19	15	2	20				13	10
Acila castraensis									1										
Clinocardium nuttallii									1										
Lucina tenuisculpta			1		1				2				1			2		1	
Macoma nasuta				1		1	1		1		1	1	3			1			3
Mysella tumida		30	4	5	8	3	1	2	25	2	5	7	6	13	1	14	5	14	13
Prothaca staminea																			
Transenella tantilla				1	1	3	2		10			1		3		3	6	1	9
Admete gracilior																			
Alia tuberosa																		1	
Batillaria zonalis	1																		
Cyclostremella concordia																			
Haminoea vesicula	1																		
Lacuna porrecta				1	1	2			5	14		1				1	1		
Odostomia (Chrysallida) sp.										2							2	1	1
Odostomia (Odostomia) sp.															5				
Solariella perambilis															1				
Eogammarus confericulus												1							
Ampelisca pugetica		1												1			1	1	1
Photis brevipes				7	3			5				1		1			6	1	
Monculodes sp.									2	1						2	1		
Pontogeneia sp.		1				1											2		
Stenothoidae									1										
Orchomene cf pinguis																			
Corophium acherusicum	2	2	1				1							2			1		
Ampithoe valida	2	3															1		
Aorides intermedius											5					2	4		1
Cheirimedeia macrodactyla													1						

Appendix Table 6 (Cont.). Subtidal Zostera marina Stations

	Station Number																		
	16	17	28	43	58	62	60	201	225	226	31-1	31-2	31-3	31-4	31-5	48-1	48-2	48-3	48-4
TAXON																			
Ericthonius hunteri						15	3		4	11									
Eobrolgus spinosus	6	19	23	5		16	7	21	10		11	12	2	12		4	12	6	11
Caprella laeviscula					10	2			1							3		1	2
Caprella striata					1											3	34		
Idotea resecata		2		2	1			1								1			
Idotea rufuscens			2		4		1						1			4	20	1	
Munna fernaldi						1				1									
Synidotea bicuspida																			
Synidotea nodulosa									2										
Leptocuma sp. 1						2			1										
Leptocuma sp. 2																			
Leucon sp.									1										
Leptochelia savigni	2	23	12	16		120	31	2	74	1	10	4	1	15		13	48	34	15
Pancolus californiensis		2		2		2													
Nebalia sp.		2				2		8				2	5	3	5				1
Anoplodactylus virintestinalis	2		1	5							2								
Majidae										2									
Pinnixia tubicola						1	1							2					
Amphiodia occidentalis		3		2	1	4	1	2	14		2	4	1	3			3	19	13
Leptosynapta clarki	7	6	4	3							7	7	12	6	2		4	3	2
Lepasterias hexactis																1			2
Nemertea					1		1												

Appendix Table 6 (Cont.). Subtidal Zostera marina Stations

	Station Number															
	48-5	59-1	59-2	59-3	59-4	59-5	65-1	65-2	65-3	65-4	65-5	203-1	203-2	203-3	203-4	203-5
TAXON																
Barantolla americana		9	4	8	5	5		12	2	1		10	11	13	2	15
Capitella sp.		2									1					
Mediomastus sp.	4				2	1						1	2			1
Notomastus tenuis																
Scoloplos armiger	1			1									1	3	1	
Armandia brevis		1			1					1		1				
Pherusa plumulosus																
Malacoceros glutaeus		9	9	3	12	9			7			3	3	10	4	2
Dipolydora quadrilobata																
Dipolydora socialis													1			
Prionospio cirrifera	7				1							1				
Prionospio steenstrupi																
Spio cirrifera			1	1	3											
Streblospio benedicti																
Axiothella rubrocinta	1	2	2	2	5	1						1		1		
Owenia fusiformis	25	4	5	1	6	3						19	34	50	16	31
Chone mollis	4															
Chaetozone actuta													5			
Cirratulus cirratus																
Tharyx parvus							1							1		
Ampharete goesi brazhnikova		2		1									1		2	1
Eupolymnia heterobranchia	1	1	2	16		1										
Pista cristata																1
Spirorbis spirillum																
Brania brevipharyngea			3	5							1					
Exogene molesta	18	13	25	45	12	9	14				1	1	5	1		1
Eulalia (Eumida) tubiformis	1															
Phylloduce maculata						1										
Platynereis bicanaliculata	8	1	7				2				1		2	1	2	1
Ophiodromus pugettensis	2	1		2	1		1	1	1	3			1		1	
Schistomeringos pseudorubrovittata	6		2	1	2			1	1		4					

Appendix Table 6 (Cont.). Subtidal Zostera marina Stations

	Station Number															
	48-5	59-1	59-2	59-3	59-4	59-5	65-1	65-2	65-3	65-4	65-5	203-1	203-2	203-3	203-4	203-5
TAXON																
Harmothoe imbricata	2	1	1	2			1	1		1			1	5	3	8
Pholoe minuta	1		1									2				1
Tubificoides foliatus	9	54	31	35	30	8	6	3			1	12	6	12	6	15
Grania paucispina	7	4	9	5	5						1		1	3		
Acila castraensis												1				
Clinocardium nuttallii																
Lucina tenuisculpta									1							
Macoma nasuta	2	1	2	1			1			2						
Mysella tumida	56	2	1		1	1	3	1	1		5	12	30	32	25	11
Prothaca staminea				1												
Transenella tantilla	2	5	1	3	2	7								1		
Admete gracilior															1	
Alia tuberosa																
Batillaria zonalis	1															
Cyclostremella concordia														1		
Haminoea vesicula								1								
Lacuna porrecta					1								1	2	3	1
Odostomia (Chrysallida) sp.												2	1	2		10
Odostomia (Odostomia) sp.																
Solariella perambilis															1	
Eogammarus confericulus						1										
Ampelisca pugetica					1								2		1	
Photis brevipes													2			
Monculodes sp.											1	1			1	
Pontogeneia sp.			1											1		
Stenothoidae																
Orchomene cf pinguis									1							
Corophium acherusicum	1		2	1								1				
Ampithoe valida															1	
Aorides intermedius	1	3	9				3	4		1		4		5		
Cheirimedeia macrodactyla																

Appendix Table 6 (Cont.). Subtidal Zostera marina Stations

	Station Number															
	48-5	59-1	59-2	59-3	59-4	59-5	65-1	65-2	65-3	65-4	65-5	203-1	203-2	203-3	203-4	203-5
TAXON																
Ericthonius hunteri																
Eobrolgus spinosus	12	3	12	4	19	2						1		1		1
Caprella laeviscula	2		4				2							68		
Caprella striata			1											1		
Idotea resecata															1	
Idotea rufuscens	3	1	3		1	1	1					1		2		
Munna fernaldi													1			
Synidotea bicuspida													1			
Synidotea nodulosa																
Leptocuma sp. 1	1			2												
Leptocuma sp. 2			1						1							
Leucon sp.		1												1		
Leptochelia savigni	62	33	57	119	38	23						1	6		2	2
Pancolus californiensis																
Nebalia sp.			1													
Anoplodactylus virintestinalis		1	7	11	1			1								
Majidae													2			
Pinnixia tubicola						2			2							
Amphiodia occidentalis	7		4						1			1	2	1		2
Leptosynapta clarki	3		1			1						2	11	8	4	13
Lepasterias hexactis										1						
Nemertea	1		1			2									1	

Appendix Table 7. Species Lists and Abundance (No./45 cm2) for Shallow Subtidal Stations

	Station Number																
	106	107	108	127	129	130	134	149	150	152	110-1	110-2	110-3	110-4	110-5	133-1	133-2
TAXON																	
Barantolla americana	1	1	1	2	1		1	5	3	2	1			1		12	1
Mediomastus sp.	1		2	1		3	1	2		1	1	2		2			
Cossura soyeri								1				1		1	1		
Scoloplos armiger	1		1	1		3	2	1			1	4	3	2	2	3	7
Armandia brevis	18	1	2	10	2	4		3			1	2		4		2	1
Aricidea neosuecica							2		2								
Malacoceros glutaeus										2							
Paraprionospio pinnata												1	1	6	1		
Dipolydora quadrilobata																	
Dipolydora socialis																	
Prionospio cirrifera										1		1		4			
Prionospio steenstrupi	10	2	5	11	12	8	1	4	4	1	7	3	5	9	7	5	4
Pseudopolydora kempi																	
Spiophanes bombyx								1	1	12							
Spio cirrifera																	
Axiothella rubrocinta					1	1		1			1						
Owenia fusiformis	37	72	125	39	51	51	2	42	2	2	172	103	88	140	53	145	173
Ampharete goesi brazhnikova	1			1	2	1	1	3	4	2	1	3		2	1	1	
Eupolymnia heterobranchia														1			
Pista cristata																	
Sternapsis scutata																	
Brania brevipharyngea												2	1	8	5	1	
Exogene molesta	12			1			1										
Syllis gracilis							3		1								
Eteone longa		1						1							1		1
Eulalia (Eumida) tubiformis														1			
Phylloduce maculata									1								
Platynereis bicanaliculata			2		1						1			1			
Nepthys caeca		1															
Nepthys caecoides				1								1		1		1	1
Glycera americana																	

Appendix Table 7 (Cont.) Shallow Subtidal Stations

	Station Number																
	106	107	108	127	129	130	134	149	150	152	110-1	110-2	110-3	110-4	110-5	133-1	133-2
TAXON																	
Glycinde armigera	1	2	2		1	1	1	2	1		6	2	3	2	2	3	2
Lumbrineris californiensis						3		1				2					2
Onuphis elegans			3	3		1	1	1			1		1	2		1	
Ophiodromus pugettensis	1		1			1								3			
Protodorvillea gracilis							1		1								
Schistomeringos pseudorubrovittata																	
Harmothoe imbricata			1														
Pholoe minuta			1		1			1			5	2	1	5	2	2	2
Tubificoides foliatus	10	2	5	18	5	8	6	11	15		11	7	3	8	7	11	11
Grania paucispina																	
Acila castraensis					4												
Clinocardium nuttallii	4	1	5	6	1	10		3	1		21	3		4	6	3	1
Lucina tenuisculpta			1				2	1			1	2	2	1	1		1
Lyonsia californica																	
Macoma nasuta	3				1								1				3
Mysella tumida	39	17	24		55	3	3	18	3	22	53	45	31	45	15	19	18
Solen perambilis												1		1			1
Tellina modesta		1				1			1	1		1	1	2	1		2
Transenella tantilla	10	3	2	4	2		3	1	9	3	26	7	7	20	20	5	10
Cyclostremella concordia											1						
Haminoea vesicula										1							
Odostomia (Chrysallida) sp.					10	1			2			1					
Odostomia (Odostomia) sp.																	
Solariella perambilis									2								
Ampelisca pugetica						6	1			1				1		1	
Photis brevipes			3	64		33		123	37	2	29	14	1	11		12	
Monculodes sp.																	1
Parapleustes sp.																	
Orchomene cf pinguis		1	1		1	1		1	2		2	2	3		2		
Corophium acherusicum	8	1	2	11		29		7	3		2	1		5	1	3	
Cheirimedeia macrodactyla	10	1	11			3					3	17	2	10	4	13	7

Appendix Table 7 (Cont.) Shallow Subtidal Stations

	Station Number																
	106	107	108	127	129	130	134	149	150	152	110-1	110-2	110-3	110-4	110-5	133-1	133-2
TAXON																	
Eohaustorius washingtonianus																	
Eobrolgus spinosus	4				3				3	1							
Rhepoxynius tridentata								3			1	1		4			
Caprella laeviscula																	
Colanthura sp.																	
Gnorimosphaeroma noblei										1							
Idotea rufuscens									6								
Munna fernaldi			1			1		1			6	4	1	5	1	2	
Synidotea bicuspida																	
Synidotea nodulosa	1			5		16		16			13	2	2	13	1	5	1
Eudorella sp.								1			9		1	6	3	2	1
Leptocuma sp. 1	3											1	1				
Leptocuma sp. 2																	
Leucon sp.			2	1		3		1				9					
Oxyurostylis sp.														1	2		
Leptochelia savigni	1			1				22	8		7	10	1	2		3	
Pancolus californiensis	2	1															
Nebalia sp.					1												
Anoplodactylus virintestinalis																	
Cancer magister																	
Pinnixia tubicola						1						1					
Amphiodia occidentalis	1		1	6	11			1	1			6	5				2
Leptosynapta clarki			3														
Nemertea					1						2			1			
Sipunculida					1	1											

Appendix Table 7 (Cont.) Shallow Subtidal Stations

	Station Number																	
	133-2	133-4	133-5	136-1	136-2	136-3	136-4	136-5	151-1	151-2	151-3	151-4	151-5	153-1	153-2	153-3	153-4	153-5
TAXON																		
Barantolla americana	2	3	2	1					10	12	13	11	3	5	5	3	4	1
Mediomastus sp.									3	3	3	3	4	19	11	9	35	1
Cossura soyeri												1	1			1		
Scoloplos armiger	7	6	7	2	1		2		2	1	2		1		1	1	2	2
Armandia brevis	1		2	1					3	4	2		3	7	3	4		1
Aricidea neosuecica				16	2		12	68										
Malacoceros glutaeus															1			
Paraprionospio pinnata													1					
Dipolydora quadrilobata				1														
Dipolydora socialis													1				1	
Prionospio cirrifera											1	19						20
Prionospio steenstrupi	6	7	16						15	9	8	4	10	2	6	2	1	
Pseudopolydora kempi																		
Spiophanes bombyx				3	2			7		2	1							
Spio cirrifera							1											
Axiothella rubrocinta									2	1		1	1				2	
Owenia fusiformis	120	128	172						59	37	47	45	74	1	28	69	27	52
Ampharete goesi brazhnikova	2		1						5	1	1	2	5	2	4	7	1	
Eupolymnia heterobranchia														1			1	
Pista cristata		1										1						
Sternapsis scutata												1						1
Brania brevipharyngea			2							4	2							
Exogene molesta				1				1	9	5	7	3	2	29	7	2	15	4
Syllis gracilis					6		118	35			1							
Eteone longa														1		1		1
Eulalia (Eumida) tubiformis																		
Phylloduce maculata																		
Platynereis bicanaliculata									1					9				
Nepthys caeca																		
Nepthys caecoides		1	1					1				2	1		1	1	1	
Glycera americana								1										

Appendix Table 7 (Cont.) Shallow Subtidal Stations

	Station Number																	
	133-2	133-4	133-5	136-1	136-2	136-3	136-4	136-5	151-1	151-2	151-3	151-4	151-5	153-1	153-2	153-3	153-4	153-5
TAXON																		
Glycinde armigera	1	2	1		1				1	2	1		1	1	4	2		3
Lumbrineris californiensis										1				1				
Onuphis elegans																		
Ophiodromus pugettensis				11				8						10		3		1
Protodorvillea gracilis																		
Schistomeringos pseudorubrovittata																		1
Harmothoe imbricata														9		2	2	4
Pholoe minuta	1	2	2								1		2	6	1	2	12	3
Tubificoides foliatus	6	4	18	3				3	13	39	39	42	24	18	21	22	10	28
Grania paucispina														12				
Acila castraensis																		
Clinocardium nuttallii	1	2	4						2	1		2	1			3	1	
Lucina tenuisculpta	1		2		2			1	1	3	3	5	2	2		1		1
Lyonsia californica			1											1	1			
Macoma nasuta	1	1	2						2		1			1				
Mysella tumida	26	16	25	4	3		3	2	41	27	17	34	32	40	28	54	80	60
Solen perambilis									1									
Tellina modesta	1	1							1			1			2			1
Transenella tantilla	1	12	2	3	2			2	10	5	5	6	7	1		2		
Cyclostremella concordia			1								1							
Haminoea vesicula															1			
Odostomia (Chrysallida) sp.									1		2			3	5			
Odostomia (Odostomia) sp.														1				
Solariella perambilis									3	1								
Ampelisca pugetica		1							2		1		1		17	1	1	1
Photis brevipes		10	4						59	61	52	26	44		6	32	7	1
Monculodes sp.											1	1						
Parapleustes sp.														1				
Orchomene cf pinguis		2	7	1					4	3	3	2	1		2	1		
Corophium acherusicum		1	3	1				1		3	6	2	5	2	2	6	3	
Cheirimedeia macrodactyla	14	7	22						29	7	12	11	14	16	20	31	23	10

Appendix Table 7 (Cont.) Shallow Subtidal Stations

	Station Number																
	133-2	133-4	133-5	136-1	136-2	136-3	136-4	136-5	151-1	151-2	151-3	151-4	151-5	153-1	153-2	153-3	153-4	153-5
TAXON																		
Eohaustorius washingtonianus				1	1		2											
Eobrolgus spinosus								1										
Rhepoxynius tridentata		2	3						6	8	15	7	10		4	2	3	
Caprella laeviscula									4	1	3	1		2	2	1		
Colanthura sp.									1									
Gnorimosphaeroma noblei																		
Idotea rufuscens																		
Munna fernaldi	2	4	1						2		1	1	1			2	2	1
Synidotea bicuspida														2		1		
Synidotea nodulosa	2	2	6						76	21	22	17	23	4	10	23	24	2
Eudorella sp.	1	1							4	1	6	3	2					
Leptocuma sp. 1													1					
Leptocuma sp. 2																15		1
Leucon sp.		1	1							4		1		2	8	6	3	2
Oxyurostylis sp.			1						1								2	
Leptochelia savigni			1						63	41	100	22	30	2		2		
Pancolus californiensis																		
Nebalia sp.														1				
Anoplodactylus virintestinalis									1									
Cancer magister														2				
Pinnixia tubicola													1	1			1	
Amphiodia occidentalis	1		2						4	8	14	12	15	6	6	15	3	9
Leptosynapta clarki													1	6	1	6	3	10
Nemertea		2	1		1				1	1			1			1		
Sipunculida									1			1						

Appendix Table 8. Species Lists and Abundance (No./45 cm2) for Intermediate Subtidal Stations

	Station Number																				
	109	111	112	114	115	116	117	120	121	122	125	147	113-1	113-2	113-3	113-4	113-5	119-1	119-2	119-3	119-4
TAXON																					
Barantolla americana																					
Mediomastus sp.			2												1						
Notomastus tenuis																					
Cossura soyeri										2		8	1	2		1	1	2			1
Scoloplos armiger														1	1						
Armandia brevis	3										1			1	1						
Paraonis gracilis				1								3									
Pherusa plumulosus																					
Sphaerodoropsis sphaerulifer						1	1	1												1	
Laonice cirrata				1	1				1									1		1	
Paraprionospio pinnata								1	1					7	12						1
Dipolydora socialis																1			1		
Prionospio cirrifera			2	2			22		1	3	1		14			4		9			
Prionospio steenstrupi	10	1															9				
Magelona longicornis																			1		
Axiothella rubrocinta																					
Euclymene sp.								3			1							2		2	
Owenia fusiformis	133	8	1	18	6	2	2	6	2		4		139	91	19	16	102		6	1	1
Chone mollis																					
Chaetozone actuta												1									
Tharyx parvus														1							
Pectinaria californiensis															2						
Ampharete goesi brazhnikova	2			1									2		4	4	2				
Pista cristata													1		1						
Terebellides stroemi								1													
Sternapsis scutata				1			2	3		1		2	1					3		1	1
Chaetopteridae																					
Brania brevipharyngea																					
Exogene molesta	2	1											2	1		2					
Syllis gracilis								1													
Eteone longa													1								

Appendix Table 8 (Cont.).Intermediate Subtidal Stations

	Station Number																				
	109	111	112	114	115	116	117	120	121	122	125	147	113-1	113-2	113-3	113-4	113-5	119-1	119-2	119-3	119-4
TAXON																					
Eulalia (Eumida) tubiformis																					
Phylloduce maculata	2																				
Phylloduce multiseriata																					
Platynereis bicanaliculata															1	2					
Nepthys cornuta franciscana	2	2	5	3		5	2		4	1	4	8	2	2	1	4	2	3	3	1	2
Glycera americana																					
Glycera capitata												1								1	
Glycinde armigera		1											1		3	3	2				
Lumbrineris californiensis	2									1	1	1	3	1	9	5	1			3	1
Onuphis elegans		1																			
Ophiodromus pugettensis															3	3				1	
Harmothoe imbricata									1				1			1			1		
Pholoe minuta			1		1	1	1		1		1				1						
Unidentified Polychaete Sp. 2																					
Tubificoides foliatus													3			1					
Acila castraensis		10	12	22	1	12	21	6	12	2	27	8						17	7	11	5
Clinocardium nuttallii	3												1		1	2			1		
Lucina tenuisculpta	1		5	1		1	3	2	1		2	2	1	1	1		2	2	1	1	1
Lyonsia californica							1														
Macoma nasuta																					
Mysella tumida	6	1											4	2	7	4					
Nuculana hamata			1	1																1	1
Pandora bilorata								1													
Solen perambilis																					
Tellina modesta	1														1				1		
Transenella tantilla	24	21	17	43	7	10	14	16	12	10	6	15	34	38	43	41	10	11	10	38	13
Unidentified Bivalve Sp. 1										1											
Yoldia myalis				2			1		3	2	1	2									
Admete gracilior	6																				
Alia tuberosa																					
Cyclostremella concordia															1						

Appendix Table 8 (Cont.).Intermediate Subtidal Stations

	Station Number																				
	109	111	112	114	115	116	117	120	121	122	125	147	113-1	113-2	113-3	113-4	113-5	119-1	119-2	119-3	119-4
TAXON																					
Cylichna attonsa								1													
Dentalium rectuis						1	1		1									1		1	
Nassarius fraterculus																	1				
Odostomia (Chrysallida) sp.	6						3						4	1		1		2			
Ampelisca pugetica																					
Photis brevipes	1							1					3	2	3	7					
Corophium acherusicum			1	1					1	3	1		1			1			1		
Cheirimedeia macrodactyla	7	8		1		1	1		2				3	5		6	1	2	1		
Eobrolgus spinosus																					
Eyakia robustus	7	7	5	10		1	6	2	6	5	4	4						2	5	10	10
Rhepoxynius tridentata	5				1				1				7	5	21	7	4				
Caprella laeviscula																2		1			
Colanthura sp.																					
Munna fernaldi	3			1				1					1	3			2				
Synidotea nodulosa			1					1					1	1	1						
Eudorella sp.	3	15	19	27	4	5	7	8	19	7	11		6	17	17		1	14	10	8	10
Leptocuma sp. 2	1																				
Leucon sp.		7			1	2	4							5		1	8		1		
Oxyurostylis sp.	3												1								
Leptochelia savigni	3												1								
Pancolus californiensis																				1	
Nebalia sp.																1					
Pinnixia tubicola				1					1												1
Amphiodia occidentalis	3	2	1	1	6	2	9	11	5		10		6		2			4	1	4	6
Nemertea				1					1								1	1			
Sipunculida																					

Appendix Table 8 (Cont.). Intermediate Subtidal Stations

	Station Number															
	119-5	124-1	124-2	124-3	124-4	124-5	137-1	137-2	137-3	137-4	137-5	148-1	148-2	148-3	148-4	148-5
TAXON																
Barantolla americana			1				1	2					1		1	3
Mediomastus sp.			1			3			2	1	1	1		1		
Notomastus tenuis						1										
Cossura soyeri	1											1	1	1	1	
Scoloplos armiger				1	1		2		1	1	1	2		1		2
Armandia brevis		7			1	1	1	5		1	2	6	1		2	6
Paraonis gracilis																
Pherusa plumulosus												1				
Sphaerodoropsis sphaerulifer		2												1	1	
Laonice cirrata	1															
Paraprionospio pinnata							1	1		1						
Dipolydora socialis						1										
Prionospio cirrifera	1			9												
Prionospio steenstrupi		8	2		5	9	6	2	1	2	2	3	2	4	1	3
Magelona longicornis									1				3			
Axiothella rubrocinta						1										
Euclymene sp.	1	1	3	3	2	2										
Owenia fusiformis	2	45	42	32	23	36	47	26	48	47	53	17	3	7	6	5
Chone mollis									2	1						
Chaetozone actuta													1			
Tharyx parvus																
Pectinaria californiensis			2	1		1										
Ampharete goesi brazhnikova		1	1				1		1	1						
Pista cristata		1	1	1	1	1	1			2			1			
Terebellides stroemi																
Sternapsis scutata		1		3								2	1	3		
Chaetopteridae			1													
Brania brevipharyngea																3
Exogene molesta												1		1		1
Syllis gracilis																
Eteone longa			1													

Appendix Table 8 (Cont.). Intermediate Subtidal Stations

	Station Number															
	119-5	124-1	124-2	124-3	124-4	124-5	137-1	137-2	137-3	137-4	137-5	148-1	148-2	148-3	148-4	148-5
TAXON																
Eulalia (Eumida) tubiformis																1
Phylloduce maculata																
Phylloduce multiseriata					1											
Platynereis bicanaliculata			1				1									
Nepthys cornuta franciscana	1	3		4	3	2	1	1		1		3	1	1	5	4
Glycera americana												1		1	1	1
Glycera capitata																
Glycinde armigera			1		2	1	3	1		1	1		1		1	
Lumbrineris californiensis		5	1	7	6	3	4	2	1	1	1	2	4	1	2	5
Onuphis elegans			2		1			1			1			2		
Ophiodromus pugettensis						1										
Harmothoe imbricata				1	1											
Pholoe minuta			1				2		1		1		1		1	
Unidentified Polychaete Sp. 2													1			
Tubificoides foliatus					2	5	3				1			1		
Acila castraensis	5						1									
Clinocardium nuttallii		1	2				1			8				1	4	1
Lucina tenuisculpta		2					1	2	1	1	2	2	2	2	1	6
Lyonsia californica								1								
Macoma nasuta								2								1
Mysella tumida			2					1					2	1		
Nuculana hamata																
Pandora bilorata																
Solen perambilis							1		1	1		4	1	4	1	1
Tellina modesta		1	1		1	2	3	1	2	2	1				1	
Transenella tantilla	7		1				4	2	2	1	1	7	2	4	1	
Unidentified Bivalve Sp. 1																
Yoldia myalis							1			1					1	
Admete gracilior																
Alia tuberosa														1		
Cyclostremella concordia																

Appendix Table 8 (Cont.). Intermediate Subtidal Stations

	Station Number															
	119-5	124-1	124-2	124-3	124-4	124-5	137-1	137-2	137-3	137-4	137-5	148-1	148-2	148-3	148-4	148-5
TAXON																
Cylichna attonsa																
Dentalium rectuis	2															
Nassarius fraterculus																
Odostomia (Chrysallida) sp.		1			1											
Ampelisca pugetica		1										1	1			
Photis brevipes							1					1				
Corophium acherusicum		1		2	3											
Cheirimedeia macrodactyla		1		3	1	3	1	3						1	1	1
Eobrolgus spinosus														1		
Eyakia robustus	3					1										2
Rhepoxynius tridentata									1			1	5		3	1
Caprella laeviscula																
Colanthura sp.												1			1	
Munna fernaldi						1							1		1	4
Synidotea nodulosa			1	5		3	1							1	1	1
Eudorella sp.	1	1										1	2			
Leptocuma sp. 2																2
Leucon sp.		1											3	1		1
Oxyurostylis sp.		1	2	2	4		4	1	8	5	1	5		4	5	3
Leptochelia savigni																1
Pancolus californiensis																1
Nebalia sp.																
Pinnixia tubicola																
Amphiodia occidentalis		12	2	1	1	3	30	12	2	5	3	9	12	1	5	7
Nemertea																
Sipunculida										1						

Appendix Table 9. Species Lists and Abundance (No./45 cm2) for Deep Subtidal Stations

	Station Number															
	123	126	131	132	138	139	140	141	142	143	144	145	146	500	501
TAXON															
Barantolla americana					1							1			
Heteromastus filibranchus					1										
Mediomastus sp.			1			4	1	1		1	1	1	2	6	5
Notomastus tenuis					1						1				
Cossura soyeri		2	2	6	4								3		
Scoloplos armiger			2		1							1	7	2	
Armandia brevis						1					2		4	1	1
Paraonis gracilis	1	2	4	6	1								3		
Sphaerodoropsis sphaerulifer			2	1											
Laonice cirrata															1
Paraprionospio pinnata		1					1								
Polydora (Boccarida) pugetensis			1												
Prionospio cirrifera	2	12		1								1	2		
Prionospio steenstrupi			4			4	9	2			4			6	1
Spiophanes bombyx							1								
Magelona longicornis	1		1					1	1	1	1		1	3	1
Euclymene sp.				2							1				
Maldane sarsi										2					
Owenia fusiformis	3		6	3	1	4							1	2	2
Chone mollis						1									
Chaetozone actuta		1					1					1		1	
Tharyx parvus			1		1					1			1		
Pectinaria californiensis											1				
Ampharete goesi brazhnikova						1				1	2				
Asabellides lineata														3	
Pista cristata			1												
Sternapsis scutata	2	2	2	4	2						2		2		
Spirorbis spirillum						2									
Exogene molesta						1							1	1	
Syllis gracilis								4	5			8		1	
Pilargis berkelyae				1											
Eulalia (Eumida) tubiformis				1											
Nepthys caeca															
Nepthys cornuta franciscana	4	4	1	3	6						2		2		
Glycera capitata				1											
Glycinde armigera								2		1		1		2	2
Lumbrineris californiensis			1		2						2		3		
Onuphis elegans							1								
Ophiodromus pugettensis				1			1								
Protodorvillea gracilis							1								
Harmothoe imbricata	1														
Unidentified Polynoidea														1	
Pholoe minuta			1								1		1		
Aphroditidae			1												
Unidentified Polychaete Sp. 1											1				

Appendix Table 9 (Cont.). Deep Subtidal Stations

	Station Number														
	123	126	131	132	138	139	140	141	142	143	144	145	146	500	501
TAXON															
Tubificoides foliatus					1	9	3	2			2	3		4	
Acila castraensis	11	12	4	13	48	1	1				1		9		1
Clinocardium nuttallii			1											1	
Crytptogemma ?													1		1
Lucina tenuisculpta	9		15	2	16				2	1	12		10		3
Macoma nasuta			2												
Macoma sp.							1			1					
Mysella tumida			2			1	3		33			6	2	1	1
Nuculana hamata			1	1	5					1					
Prothaca staminea															1
Tellina modesta		2								1					
Transenella tantilla	41	34	27	24	14	4	2			5	9	2	4	4	11
Unidentified Bivalve Sp. 2				1		2									
Yoldia myalis	1										1				
Dentalium rectuis	2	1													
Lacuna porrecta						3									
Odostomia (Chrysallida) sp.						2							8		
Turbonilla sp.						1							1		
Photis brevipes				1		1								3	
Monculodes sp.							1								
Pontogeneia sp.						2								10	
Corophium acherusicum														1	
Cheirimedeia macrodactyla			1										3		
Eyakia robustus	7	9	2	6											
Rhepoxynius tridentata			1					1							
Caprella laeviscula			1										1		
Munna fernaldi	1		1												
Eudorella sp.	3	1													
Leptocuma sp. 2			2	2											1
Oxyurostylis sp.	2						1								
Pinnixia tubicola		1													
Amphiodia occidentalis	7	1	4	1								6			
Nemertea		1										1			

Appendix Table 10. Raw Data for Infaunal Core Samples (45 cm2)

Habitat	Station	Sample	Taxa	Abundance	Biomass Total	Biomass Polychaete	Biomass Mollusc	Biomass Crustacea	Biomass Echinoderm
UNVEG	42		10	123	0.0241	0.0150	0.0000	0.0091	0.0000
UNVEG	72		15	358	0.0239	0.0099	0.0000	0.0140	0.0000
UNVEG	209		12	707	0.0214	0.0095	0.0000	0.0119	0.0000
UNVEG	213		15	375	0.0537	0.0439	0.0000	0.0098	0.0000
UNVEG	215		14	272	0.0502	0.0415	0.0000	0.0087	0.0000
UNVEG	220		15	116	0.1622	0.0421	0.0511	0.0059	0.0000
ULVA	93		12	123	0.0248	0.0051	0.0093	0.0104	0.0000
ULVA	91		8	37	0.0348	0.0000	0.0050	0.0021	0.0000
ULVA	98		12	187	0.0435	0.0213	0.0132	0.0090	0.0000
ULVA	74		16	94	0.0265	0.0047	0.0170	0.0048	0.0000
ULVA	223		13	512	0.1558	0.0595	0.0614	0.0349	0.0000
ULVA	219		14	296	0.0772	0.0309	0.0223	0.0240	0.0000
ULVA	85		18	464	0.1314	0.0342	0.0000	0.0972	0.0000
ULVA	67		19	536	0.3997	0.3302	0.0308	0.0387	0.0000
ULVA	218		19	630	0.4638	0.3666	0.0394	0.0578	0.0000
ULVA	202		28	661	1.7155	0.5095	0.0521	0.9240	0.2299
ULVA	71	1	16	320	0.1187	0.0441	0.0000	0.0052	0.0000
ULVA	71	2	13	132	0.0550	0.0100	0.0000	0.0037	0.0000
ULVA	71	3	13	306	0.2140	0.0558	0.0000	0.0125	0.0000
ULVA	71	4	21	235	0.1061	0.0639	0.0000	0.0062	0.0000
ULVA	71	5	12	354	0.2621	0.2389	0.0000	0.0232	0.0000
ULVA	92	1	22	270	0.1464	0.0661	0.0001	0.0804	0.0000
ULVA	92	2	19	214	0.1152	0.0998	0.0024	0.0130	0.0000
ULVA	92	3	19	447	0.1535	0.1150	0.0000	0.0305	0.0000
ULVA	92	4	26	497	0.3958	0.2945	0.0109	0.0632	0.0000
ULVA	92	5	18	268	0.4204	0.3893	0.0000	0.0245	0.0000
ULVA	221	1	21	314	0.9768	0.7167	0.1910	0.0691	0.0000
ULVA	221	2	19	96	0.0989	0.0596	0.0283	0.0110	0.0000
ULVA	221	3	17	309	0.1144	0.0232	0.0453	0.0459	0.0000
ULVA	221	4	22	415	1.3475	0.8767	0.4108	0.0600	0.0000
ULVA	221	5	20	238	0.9980	0.6325	0.1713	0.1014	0.0000
ULVA	222	1	13	270	0.1373	0.0794	0.0465	0.0114	0.0000
ULVA	222	2	12	339	0.2068	0.1785	0.0000	0.0283	0.0000
ULVA	222	3	15	420	0.2103	0.1706	0.0000	0.0397	0.0000
ULVA	222	4	13	424	0.3554	0.4013	0.0177	0.0345	0.0000
ULVA	222	5	14	613	0.1625	0.0333	0.0373	0.0572	0.0000
ULVA	224	1	14	223	0.1426	0.0788	0.0509	0.0129	0.0000
ULVA	224	2	16	301	0.2155	0.0559	0.1091	0.0505	0.0000
ULVA	224	3	14	526	0.7271	0.5282	0.1575	0.0414	0.0000
ULVA	224	4	15	266	0.3201	0.1757	0.1016	0.0428	0.0000

Appendix Table 10 (Cont.).

Habitat	Station	Sample	Taxa	Abundance	Biomass Total	Biomass Polychaete	Biomass Mollusc	Biomass Crustacea	Biomass Echinoderm
ULVA	224	5	12	412	0.3661	0.1942	0.0855	0.0407	0.0000
ZJAP	63		17	220	0.9712	0.0110	0.9243	0.0135	0.0000
ZJAP	69		25	373	0.0942	0.0548	0.0000	0.0394	0.0000
ZJAP	212		21	510	2.6728	0.0059	2.6343	0.0326	0.0000
ZJAP	214		18	190	0.1749	0.0000	0.0000	0.0064	0.0000
ZJAP	216		18	128	2.2857	0.0035	2.2373	0.0183	0.0000
ZJAP	52		20	301	0.3539	0.0602	0.2563	0.0231	0.0000
ZJAP	50		15	277	0.8244	0.1324	0.6424	0.0496	0.0000
ZJAP	30		17	1949	0.7323	0.3407	0.1798	0.2048	0.0070
ZJAP	44		19	100	5.8819	0.7185	5.1397	0.0237	0.0000
ZJAP	47		20	344	0.3422	0.1978	0.0971	0.0000	0.0000
ZJAP	45	1	12	243	4.1774	0.0043	4.1179	0.0552	0.0000
ZJAP	45	2	14	232	2.9200	0.0437	2.8286	0.0477	0.0000
ZJAP	45	3	12	372	5.1309	0.0160	5.0214	0.0935	0.0000
ZJAP	45	4	14	194	2.0720	0.0020	2.0237	0.0463	0.0000
ZJAP	45	5	10	92	0.0404	0.0305	0.0035	0.0139	0.0010
ZJAP	51	1	21	222	0.1434	0.0574	0.0162	0.0074	0.0000
ZJAP	51	2	18	336	0.3825	0.0393	0.3168	0.0264	0.0000
ZJAP	51	3	18	269	1.2627	0.0730	1.1349	0.0000	0.0000
ZJAP	51	4	17	189	0.1895	0.0322	0.0890	0.0246	0.0000
ZJAP	51	5	18	122	0.9763	0.0934	0.8235	0.0172	0.0000
ZJAP	55	1	14	344	2.6272	0.0964	2.4855	0.0453	0.0000
ZJAP	55	2	14	293	3.5137	0.0086	3.4907	0.0144	0.0000
ZJAP	55	3	14	277	2.9274	0.1776	2.7353	0.0145	0.0000
ZJAP	55	4	18	182	14.6769	0.0441	14.6082	0.0246	0.0000
ZJAP	55	5	10	57	2.3492	0.0150	2.3313	0.0004	0.0000
ZJAP	68	1	16	257	3.8985	0.0011	1.3534	2.5382	0.0000
ZJAP	68	2	16	208	1.1790	0.0147	1.1341	0.0302	0.0000
ZJAP	68	3	16	173	0.0859	0.0621	0.0000	0.0238	0.0000
ZJAP	68	4	21	341	2.7019	0.0245	2.6225	0.0549	0.0000
ZJAP	68	5	14	73	0.6558	0.0147	0.5403	0.0100	0.0000
ZJAP	210	1	15	160	0.2132	0.0030	0.1896	0.0206	0.0000
ZJAP	210	2	19	335	3.6349	0.0045	3.6019	0.0285	0.0000
ZJAP	210	3	19	217	0.0226	0.0000	0.0000	0.0226	0.0000
ZJAP	210	4	15	418	0.6479	0.0081	0.5443	0.0955	0.0000
ZJAP	210	5	12	183	0.8336	0.0118	0.7876	0.0239	0.0000
ZMLO	34		25	543	1.0335	0.2969	0.5871	0.1495	0.0000
ZMLO	36		17	772	0.8001	0.7132	0.0000	0.0709	0.0160
ZMLO	37		22	600	0.9164	0.5609	0.3382	0.0173	0.0000
ZMLO	54		21	434	4.1802	0.1488	0.0000	4.0314	0.0000

Appendix Table 10 (Cont.).

Habitat	Station	Sample	Taxa	Abundance	Biomass Total	Biomass Polychaete	Biomass Mollusc	Biomass Crustacea	Biomass Echinoderm
ZMLO	56		16	281	1.0875	1.0556	0.0000	0.0319	0.0000
ZMLO	70		14	175	3.2368	0.1789	3.0493	0.0086	0.0000
ZMLO	73		23	251	1.0303	0.4766	0.3356	0.2181	0.0000
ZMLO	200		23	1560	1.1087	0.5133	0.2803	0.2702	0.0449
ZMLO	211		17	246	0.0982	0.0422	0.0000	0.0560	0.0000
ZMLO	217		24	234	1.0809	0.6961	0.2717	0.1131	0.0000
ZMLO	33	1	26	381	1.2244	0.9236	0.2556	0.0452	0.0000
ZMLO	33	2	20	230	0.4899	0.3153	0.0437	0.0489	0.0820
ZMLO	33	3	19	449	1.2257	0.9485	0.0000	0.2137	0.0635
ZMLO	33	4	15	639	0.5825	0.3591	0.0812	0.0905	0.0517
ZMLO	33	5	25	279	1.4026	1.1629	0.0276	0.1704	0.0417
ZMLO	53	1	22	373	1.5584	0.8913	0.6231	0.0440	0.0000
ZMLO	53	2	22	367	0.5999	0.5664	0.0226	0.0109	0.0000
ZMLO	53	3	15	723	0.6597	0.5796	0.0000	0.0801	0.0000
ZMLO	53	4	16	370	0.3292	0.2535	0.0113	0.0644	0.0000
ZMLO	53	5	18	347	0.6624	0.3137	0.0460	0.0517	0.0000
ZMLO	61	1	26	302	0.3692	0.1199	0.1392	0.0488	0.0613
ZMLO	61	2	26	345	1.3883	1.0069	0.0982	0.1322	0.1510
ZMLO	61	3	16	247	0.3310	0.1406	0.0000	0.0728	0.1176
ZMLO	61	4	30	452	2.5931	1.4363	1.0497	0.0721	0.0350
ZMLO	61	5	19	164	1.0648	0.0819	0.0000	0.0232	0.0000
ZMLO	64	1	18	143	0.4914	0.3149	0.1024	0.0741	0.0000
ZMLO	64	2	15	116	0.3953	0.2766	0.0654	0.0533	0.0000
ZMLO	64	3	21	224	0.7845	0.5543	0.0513	0.1789	0.0000
ZMLO	64	4	19	216	1.1069	0.7834	0.0447	0.2788	0.0000
ZMLO	64	5	19	198	0.7880	0.6475	0.0235	0.0840	0.0000
ZMLO	207	1	13	89	0.2071	0.1609	0.0000	0.0462	0.0000
ZMLO	207	2	20	223	0.9087	0.7237	0.0533	0.0156	0.0000
ZMLO	207	3	20	205	0.2523	0.1728	0.0146	0.0649	0.0000
ZMLO	207	4	19	287	0.3569	0.2844	0.0000	0.0725	0.0000
ZMLO	207	5	16	234	1.0496	0.3817	0.0000	0.0354	0.0000
ZMHI	11		23	165	10.4642	0.2755	10.0199	0.0402	0.1286
ZMHI	12		26	183	0.6190	0.3607	0.2316	0.0267	0.0000
ZMHI	14		21	391	0.4699	0.2755	0.0405	0.0528	0.1011
ZMHI	15		33	563	1.5392	1.1158	0.0729	0.1078	0.2427
ZMHI	18		21	998	0.3629	0.1629	0.1021	0.0573	0.0406
ZMHI	22		19	297	1.4835	1.4144	0.0100	0.0302	0.0289
ZMHI	27		19	970	0.4487	0.1574	0.1209	0.1425	0.0279
ZMHI	49		25	575	0.6662	0.3841	0.1355	0.0451	0.1015
ZMHI	206		18	155	0.3440	0.1569	0.0192	0.1679	0.0000

Appendix Table 10 (Cont.).

Habitat	Station	Sample	Taxa	Abundance	Biomass Total	Biomass Polychaete	Biomass Mollusc	Biomass Crustacea	Biomass Echinoderm
ZMHI	208		17	218	0.0324	0.0146	0.0000	0.0178	0.0000
ZMHI	4	1	18	74	0.9944	0.0461	0.1173	0.7658	0.0652
ZMHI	4	2	23	177	0.4815	0.2881	0.0227	0.0469	0.1238
ZMHI	4	3	15	49	0.2823	0.2259	0.0172	0.0220	0.0172
ZMHI	4	4	16	81	0.4619	0.2972	0.0301	0.0037	0.1309
ZMHI	4	5	19	88	0.4124	0.1883	0.1199	0.0039	0.1003
ZMHI	6	1	17	152	0.2766	0.0493	0.0742	0.0146	0.0713
ZMHI	6	2	23	189	0.5880	0.1172	0.0914	0.0247	0.0870
ZMHI	6	3	20	99	0.6274	0.1324	0.0569	0.0153	0.1866
ZMHI	6	4	28	277	1.4533	0.9131	0.0679	0.0502	0.3447
ZMHI	6	5	17	119	0.6909	0.1421	0.0000	0.0105	0.3847
ZMHI	46	1	33	276	9.9305	1.3813	8.2543	0.0257	0.1460
ZMHI	46	2	24	333	0.8131	0.5009	0.0474	0.0268	0.2380
ZMHI	46	3	25	307	0.7959	0.4296	0.0523	0.0238	0.2902
ZMHI	46	4	25	217	0.7349	0.5544	0.0681	0.0141	0.0983
ZMHI	46	5	26	100	1.4757	0.3724	0.6167	0.0028	0.1153
ZMHI	57	1	23	381	1.8697	0.5720	1.2221	0.0726	0.0030
ZMHI	57	2	26	521	0.9257	0.6464	0.2362	0.0431	0.0000
ZMHI	57	3	21	312	2.7973	1.9172	0.0000	0.8674	0.0127
ZMHI	57	4	21	220	3.7756	1.5709	1.8289	0.1855	0.1903
ZMHI	57	5	26	258	2.9171	2.5671	0.2081	0.0185	0.0508
ZMHI	204	1	24	634	2.6500	0.6735	1.8492	0.0867	0.0406
ZMHI	204	2	28	231	2.3339	0.6170	1.6904	0.0265	0.0000
ZMHI	204	3	28	380	2.6107	1.0597	0.9503	0.6007	0.0000
ZMHI	204	4	24	208	5.7528	0.6153	5.0797	0.0578	0.0000
ZMHI	204	5	29	246	8.3196	2.6983	5.0971	0.2112	0.0000
ZMSUB	16		15	120	0.8544	0.0717	0.6719	0.0000	0.1108
ZMSUB	17		22	151	0.8866	0.4472	0.0870	0.1830	0.1694
ZMSUB	28		19	69	0.2683	0.1889	0.0308	0.0269	0.0217
ZMSUB	43		24	151	0.5934	0.0427	0.1724	0.2449	0.1334
ZMSUB	58		21	191	0.5939	0.5473	0.0239	0.0227	0.0000
ZMSUB	62		32	494	2.0132	0.5747	0.0801	1.3433	0.0151
ZMSUB	60		26	94	1.6482	1.2468	0.2483	0.1120	0.0411
ZMSUB	201		16	58	0.1938	0.1126	0.0000	0.0300	0.0512
ZMSUB	225		34	312	1.7881	0.4743	0.8052	0.0335	0.4751
ZMSUB	226		15	143	0.9286	0.9155	0.0131	0.0000	0.0000
ZMSUB	31	1	20	162	0.8536	0.5051	0.0954	0.0248	0.2283
ZMSUB	31	2	23	176	0.5436	0.3871	0.0479	0.0038	0.1048
ZMSUB	31	3	22	89	0.6734	0.3753	0.1255	0.0128	0.1598
ZMSUB	31	4	24	231	1.0347	0.5382	0.1057	0.1527	0.2381

Appendix Table 10 (Cont.).

Habitat	Station	Sample	Taxa	Abundance	Biomass Total	Biomass Polychaete	Biomass Mollusc	Biomass Crustacea	Biomass Echinoderm
ZMSUB	31	5	12	32	0.8426	0.2205	0.0937	0.0000	0.0000
ZMSUB	48	1	26	108	1.4853	0.4528	0.1001	0.9324	0.0000
ZMSUB	48	2	29	209	0.9501	0.6924	0.1157	0.1076	0.0344
ZMSUB	48	3	29	172	1.4181	1.1407	0.0844	0.0368	0.1562
ZMSUB	48	4	27	158	1.9313	0.8529	0.8962	0.0258	0.1564
ZMSUB	48	5	30	251	1.5492	1.1090	0.1623	0.0322	0.1023
ZMSUB	59	1	24	155	0.5410	0.4732	0.0568	0.0110	0.0000
ZMSUB	59	2	31	210	0.9194	0.6588	0.0000	0.0314	0.2292
ZMSUB	59	3	23	270	0.4412	0.3071	0.1028	0.0313	0.0000
ZMSUB	59	4	21	149	0.2252	0.1999	0.0000	0.0253	0.0000
ZMSUB	59	5	18	78	0.3505	0.1539	0.0346	0.0464	0.0000
ZMSUB	65	1	11	35	0.1025	0.0647	0.0378	0.0000	0.0000
ZMSUB	65	2	9	25	0.6719	0.0334	0.6385	0.0000	0.0000
ZMSUB	65	3	10	18	0.0975	0.0215	0.0000	0.0760	0.0000
ZMSUB	65	4	7	10	0.1709	0.1044	0.0665	0.0000	0.0000
ZMSUB	65	5	9	16	0.0604	0.0000	0.0000	0.0000	0.0000
ZMSUB	203	1	22	80	0.4886	0.3791	0.0488	0.0113	0.0494
ZMSUB	203	2	26	134	2.0846	1.6961	0.0668	0.0206	0.3011
ZMSUB	203	3	27	229	2.4617	2.2415	0.0540	0.0523	0.1139
ZMSUB	203	4	21	79	2.0074	0.5981	0.1364	0.3546	0.0816
ZMSUB	203	5	19	118	1.1437	0.8945	0.0489	0.0000	0.1103
SHALLOW	106		23	179	0.3537	0.0625	0.2651	0.0261	0.0000
SHALLOW	107		16	108	0.3055	0.2459	0.0596	0.0000	0.0000
SHALLOW	108		25	207	0.7956	0.6091	0.0709	0.0197	0.0959
SHALLOW	127		19	186	0.4054	0.2041	0.0884	0.0300	0.0829
SHALLOW	129		22	168	1.7298	1.5770	0.1207	0.0000	0.0321
SHALLOW	130		26	194	0.6442	0.4894	0.0471	0.0863	0.0214
SHALLOW	134		17	32	0.3351	0.2567	0.0784	0.0000	0.0000
SHALLOW	149		30	279	1.1791	1.0120	0.0742	0.0821	0.0108
SHALLOW	150		24	113	0.3059	0.0983	0.0810	0.0425	0.0841
SHALLOW	152		16	55	0.2369	0.1559	0.0810	0.0000	0.0000
SHALLOW	110	1	28	385	1.1622	0.9115	0.2289	0.0218	0.0000
SHALLOW	110	2	34	264	0.8286	0.5167	0.2277	0.0842	0.0000
SHALLOW	110	3	23	165	0.5853	0.3788	0.1963	0.0102	0.0000
SHALLOW	110	4	37	335	1.0473	0.7865	0.2398	0.0210	0.0000
SHALLOW	110	5	23	139	0.2103	0.2924	0.1114	0.0157	0.0000
SHALLOW	133	1	23	255	0.5088	0.3918	0.0816	0.0354	0.0000
SHALLOW	133	2	22	253	0.5966	0.3320	0.1317	0.0090	0.1239
SHALLOW	133	3	20	197	0.4278	0.2857	0.1235	0.0186	0.0000
SHALLOW	133	4	25	219	0.9624	0.6459	0.2760	0.0405	0.0000

Appendix Table 10 (Cont.).

Habitat	Station	Sample	Taxa	Abundance	Biomass Total	Biomass Polychaete	Biomass Mollusc	Biomass Crustacea	Biomass Echinoderm
SHALLOW	133	5	30	313	3.8570	0.4397	2.9319	0.0079	0.0755
SHALLOW	136	1	14	49	0.1853	0.1853	0.0000	0.0000	0.0000
SHALLOW	136	2	10	21	0.0911	0.0000	0.0000	0.0000	0.0000
SHALLOW	136	3	0	0	0.0000	0.0000	0.0000	0.0000	0.0000
SHALLOW	136	4	6	138	0.1047	0.0000	0.0000	0.0000	0.0000
SHALLOW	136	5	13	131	0.1320	0.0000	0.0000	0.0000	0.0000
SHALLOW	151	1	37	443	1.8539	1.5934	0.1261	0.0772	0.0572
SHALLOW	151	2	31	317	0.9714	0.7643	0.0883	0.0813	0.0375
SHALLOW	151	3	34	394	1.5128	1.2442	0.0363	0.0724	0.1599
SHALLOW	151	4	32	290	1.5103	1.0720	0.1397	0.0418	0.2568
SHALLOW	151	5	35	326	1.8062	1.2740	0.3141	0.0626	0.0239
SHALLOW	153	1	37	229	0.9272	0.4832	0.0810	0.2810	0.0820
SHALLOW	153	2	29	208	0.5367	0.3045	0.1370	0.0360	0.0592
SHALLOW	153	3	36	336	0.9728	0.7615	0.0586	0.0502	0.1025
SHALLOW	153	4	28	270	0.8115	0.5258	0.1462	0.0640	0.0755
SHALLOW	153	5	27	222	1.2624	0.6148	0.3241	0.0000	0.1460
INTER	109		25	239	0.5235	0.3516	0.1456	0.0263	0.0000
INTER	111		14	85	1.3571	0.0952	1.2388	0.0231	0.0000
INTER	112		14	73	1.5287	0.0296	1.4858	0.0133	0.0000
INTER	114		20	139	5.8628	0.0816	5.7496	0.0316	0.0000
INTER	115		9	28	0.2537	0.0347	0.2190	0.0000	0.0000
INTER	116		13	44	4.0677	0.0000	4.0677	0.0000	0.0000
INTER	117		18	101	1.8073	0.0136	1.7163	0.0000	0.0774
INTER	120		18	66	0.6838	0.0354	0.4373	0.0000	0.2111
INTER	121		20	76	2.7897	0.0893	2.6561	0.0443	0.0000
INTER	122		12	38	0.5485	0.0537	0.4248	0.0700	0.0000
INTER	125		15	75	5.0908	0.0265	5.0431	0.0000	0.0212
INTER	147		12	55	0.3642	0.0651	0.2991	0.0000	0.0000
INTER	113	1	28	245	0.6976	0.4882	0.1832	0.0262	0.0000
INTER	113	2	20	187	1.3194	1.0369	0.2463	0.0362	0.0000
INTER	113	3	25	157	0.7696	0.4389	0.2534	0.0368	0.0405
INTER	113	4	24	120	0.6252	0.3119	0.2607	0.0526	0.0000
INTER	113	5	16	149	0.3647	0.1975	0.0844	0.0000	0.0000
INTER	119	1	17	77	2.0094	0.3879	1.5997	0.0218	0.0000
INTER	119	2	16	51	1.3224	0.0343	1.2189	0.0692	0.0000
INTER	119	3	18	87	1.4345	0.0702	1.2957	0.0120	0.0566
INTER	119	4	14	54	1.7391	0.2406	1.3987	0.0839	0.0159
INTER	119	5	11	25	1.2882	0.0162	0.7172	0.0000	0.0000
INTER	124	1	21	97	0.3952	0.2607	0.0216	0.0158	0.0971
INTER	124	2	22	72	0.2600	0.2380	0.0220	0.0000	0.0000

Appendix Table 10 (Cont.).

Habitat	Station	Sample	Taxa	Abundance	Biomass Total	Biomass Polychaete	Biomass Mollusc	Biomass Crustacea	Biomass Echinoderm
INTER	124	3	15	75	0.2877	0.2763	0.0000	0.0114	0.0000
INTER	124	4	19	60	0.3692	0.3188	0.0000	0.0000	0.0504
INTER	124	5	21	81	1.0030	0.3501	0.0000	0.1108	0.2361
INTER	137	1	26	123	0.3719	0.2727	0.0678	0.0000	0.0314
INTER	137	2	18	66	0.4470	0.3115	0.1355	0.0000	0.0000
INTER	137	3	16	75	0.2373	0.1882	0.0491	0.0000	0.0000
INTER	137	4	21	85	0.2885	0.2644	0.0241	0.0000	0.0000
INTER	137	5	15	72	0.2382	0.1407	0.0162	0.0000	0.0000
INTER	148	1	22	72	0.1807	0.1240	0.0513	0.0054	0.0000
INTER	148	2	24	53	0.3895	0.3380	0.0184	0.0331	0.0000
INTER	148	3	25	47	0.9731	0.6375	0.3356	0.0000	0.0000
INTER	148	4	24	48	0.1539	0.1348	0.0142	0.0049	0.0000
INTER	148	5	26	67	0.5536	0.1704	0.3705	0.0127	0.0000
DEEP	123		17	98	0.6812	0.0233	0.5045	0.0148	0.1386
DEEP	126		16	86	1.1612	0.0713	1.0749	0.0150	0.0000
DEEP	131		30	95	0.7815	0.1198	0.6357	0.0260	0.0000
DEEP	132		21	81	0.4698	0.1165	0.3407	0.0126	0.0000
DEEP	138		16	105	0.9858	0.0435	0.9423	0.0000	0.0000
DEEP	139		19	45	0.5478	0.0509	0.4969	0.0000	0.0000
DEEP	140		15	28	0.4601	0.0354	0.4247	0.0000	0.0000
DEEP	141		7	13	0.0482	0.0000	0.0482	0.0000	0.0000
DEEP	142		4	41	0.0749	0.0207	0.0542	0.0000	0.0000
DEEP	143		11	16	0.1497	0.0320	0.1177	0.0000	0.0000
DEEP	144		18	46	0.3983	0.2521	0.1462	0.0000	0.0000
DEEP	145		12	32	0.1515	0.0496	0.0218	0.0000	0.0801
DEEP	146		23	72	0.3720	0.0145	0.3575	0.0000	0.0000
DEEP	500		19	53	0.2541	0.2259	0.0141	0.0141	0.0000
DEEP	501		14	32	0.4178	0.2875	0.1303	0.0000	0.0000

Appendix Table 11. Raw Data for Vertically Sectioned Core Samples (45cm2)

Habitat	Sample	Vertical	Taxa	Abundance	Biomass Total	Biomass Polychaete	Biomass Mollusc	Biomass Crustacea	Biomass Echinoderm
ULVA	92-5	0-2 cm	13	246	0.0923	0.0782	0	0.0141	0
ULVA	71-5	0-2 cm	12	352	0.2621	0.2389	0	0.0232	0
ULVA	224-5	0-2 cm	11	383	0.3204	0.1942	0.0855	0.0407	0
ULVA	222-5	0-2 cm	12	600	0.1278	0.0333	0.0373	0.0572	0
ULVA	221-5	0-2 cm	15	184	0.2311	0.0181	0.1647	0.0483	0
ULVA	92-5	2-4 cm	11	19	0.3215	0.3111	0	0.0104	0
ULVA	71-5	2-4 cm	2	2	0	0	0	0	0
ULVA	224-5	2-4 cm	6	10	0.0424	0	0	0	0
ULVA	222-5	2-4 cm	0	0	0	0	0	0	0
ULVA	221-5	2-4 cm	9	31	0.6741	0.6144	0.0066	0.0531	0
ULVA	92-5	4-6 cm	1	1	0.0043	0	0	0	0
ULVA	71-5	4-6 cm	0	0	0	0	0	0	0
ULVA	224-5	4-6 cm	4	15	0.0033	0	0	0	0
ULVA	222-5	4-6 cm	6	12	0.0068	0	0	0	0
ULVA	221-5	4-6 cm	3	8	0.0265	0	0	0	0
ULVA	92-5	6-8 cm	0	0	0	0	0	0	0
ULVA	71-5	6-8 cm	0	0	0	0	0	0	0
ULVA	224-5	6-8 cm	1	1	0	0	0	0	0
ULVA	222-5	6-8 cm	1	1	0.0279	0	0	0	0
ULVA	221-5	6-8 cm	7	14	0.0663	0	0	0	0
ULVA	92-5	8-10 cm	2	2	0.0023	0	0	0	0
ULVA	71-5	8-10 cm	0	0	0	0	0	0	0
ULVA	224-5	8-10 cm	1	3	0	0	0	0	0
ULVA	222-5	8-10 cm	0	0	0	0	0	0	0
ULVA	221-5	8-10 cm	0	0	0	0	0	0	0
ZJAP	68-5	0-2 cm	12	68	0.5650	0.0147	0.5403	0.0100	0
ZJAP	210-5	0-2 cm	12	174	0.8233	0.0118	0.7876	0.0239	0
ZJAP	55-5	0-2 cm	9	52	2.3467	0.0150	2.3313	0.0004	0
ZJAP	51-5	0-2 cm	17	100	0.9341	0.0934	0.8235	0.0172	0
ZJAP	45-5	0-2 cm	10	86	0.0404	0.0280	0	0.0124	0
ZJAP	68-5	2-4 cm	3	4	0.0648	0	0	0	0
ZJAP	210-5	2-4 cm	3	7	0.0103	0	0	0	0
ZJAP	55-5	2-4 cm	2	5	0.0025	0	0	0	0
ZJAP	51-5	2-4 cm	5	13	0	0	0	0	0
ZJAP	45-5	2-4 cm	4	5	0	0.0025	0.0035	0.0015	0.0010
ZJAP	68-5	4-6 cm	0	0	0	0	0	0	0
ZJAP	210-5	4-6 cm	1	2	0	0	0	0	0
ZJAP	55-5	4-6 cm	0	0	0	0	0	0	0
ZJAP	51-5	4-6 cm	2	2	0	0	0	0	0
ZJAP	45-5	4-6 cm	2	3	0	0	0	0	0

Appendix Table 11 (Cont.).

Habitat	Sample	Vertical	Taxa	Abundance	Biomass Total	Biomass Polychaete	Biomass Mollusc	Biomass Crustacea	Biomass Echinoderm
ZJAP	68-5	6-8 cm	1	1	0.0260	0	0	0	0
ZJAP	210-5	6-8 cm	0	0	0	0	0	0	0
ZJAP	55-5	6-8 cm	0	0	0	0	0	0	0
ZJAP	51-5	6-8 cm	0	0	0	0	0	0	0
ZJAP	45-5	6-8 cm	0	0	0	0	0	0	0
ZJAP	68-5	8-10 cm	0	0	0	0	0	0	0
ZJAP	210-5	8-10 cm	0	0	0	0	0	0	0
ZJAP	55-5	8-10 cm	0	0	0	0	0	0	0
ZJAP	51-5	8-10 cm	1	1	0	0	0	0	0
ZJAP	45-5	8-10 cm	0	0	0	0	0	0	0
ZMLO	33-5	0-2 cm	18	193	0.3871	0.2759	0.0276	0.0419	0.0417
ZMLO	53-5	0-2 cm	18	329	0.4114	0.3137	0.0460	0.0517	0
ZMLO	61-5	0-2 cm	13	132	0.1051	0.0819	0	0.0232	0
ZMLO	64-5	0-2 cm	19	192	0.7550	0.6475	0.0235	0.0840	0
ZMLO	207-5	0-2 cm	10	150	0.1918	0.1573	0	0.0345	0
ZMLO	33-5	2-4 cm	11	50	0.3365	0.3121	0	0.0244	0
ZMLO	53-5	2-4 cm	7	16	0.0912	0	0	0	0
ZMLO	61-5	2-4 cm	11	23	0.2711	0	0	0	0
ZMLO	64-5	2-4 cm	5	6	0.0330	0	0	0	0
ZMLO	207-5	2-4 cm	9	35	0.2253	0.2244	0	0.0009	0
ZMLO	33-5	4-6 cm	9	13	0.4348	0.3430	0	0.0918	0
ZMLO	53-5	4-6 cm	1	1	0.0427	0	0	0	0
ZMLO	61-5	4-6 cm	6	7	0.2126	0	0	0	0
ZMLO	64-5	4-6 cm	0	0	0	0	0	0	0
ZMLO	207-5	4-6 cm	6	11	0.0222	0	0	0	0
ZMLO	33-5	6-8 cm	9	23	0.2442	0.2319	0	0.0123	0
ZMLO	53-5	6-8 cm	1	1	0.1171	0	0	0	0
ZMLO	61-5	6-8 cm	2	2	0.4760	0	0	0	0
ZMLO	64-5	6-8 cm	0	0	0	0	0	0	0
ZMLO	207-5	6-8 cm	8	21	0.4982	0	0	0	0
ZMLO	33-5	8-10 cm	0	0	0	0	0	0	0
ZMLO	53-5	8-10 cm	0	0	0	0	0	0	0
ZMLO	61-5	8-10 cm	0	0	0	0	0	0	0
ZMLO	64-5	8-10 cm	0	0	0	0	0	0	0
ZMLO	207-5	8-10 cm	6	17	0.1121	0	0	0	0
ZMHI	s4-5	0-2 cm	16	64	0.1899	0.0591	0.0266	0.0039	0.1003
ZMHI	s6-5	0-2 cm	15	96	0.5373	0.1421	0	0.0105	0.3847
ZMHI	46-5	0-2 cm	19	73	0.7994	0.3709	0.3170	0.0018	0.1143
ZMHI	57-5	0-2 cm	24	232	1.6662	1.3888	0.2081	0.0185	0.0508
ZMHI	204-5	0-2 cm	19	116	0.3273	0.1188	0.1673	0.0412	0

Appendix Table 11 (Cont.).

Habitat	Sample	Vertical	Taxa	Abundance	Biomass Total	Biomass Polychaete	Biomass Mollusc	Biomass Crustacea	Biomass Echinoderm
ZMHI	4-5	2-4 cm	8	20	0.1694	0.0761	0.0933	0	0
ZMHI	6-5	2-4 cm	7	17	0.1047	0	0	0	0
ZMHI	46-5	2-4 cm	6	6	0.0573	0.0015	0.0015	0.0010	0.0010
ZMHI	57-5	2-4 cm	11	23	1.0569	1.0569	0	0	0
ZMHI	204-5	2-4 cm	11	38	0.1666	0	0	0	0
ZMHI	4-5	4-6 cm	2	2	0.0531	0.0531	0	0	0
ZMHI	6-5	4-6 cm	1	1	0	0	0	0	0
ZMHI	46-5	4-6 cm	12	14	0.1589	0	0	0	0
ZMHI	57-5	4-6 cm	3	3	0.0191	0	0	0	0
ZMHI	204-5	4-6 cm	16	77	0.7775	0.7519	0.0256	0	0
ZMHI	4-5	6-8 cm	2	2	0	0	0	0	0
ZMHI	6-5	6-8 cm	4	5	0.0489	0	0	0	0
ZMHI	46-5	6-8 cm	5	6	0.0798	0	0	0	0
ZMHI	57-5	6-8 cm	0	0	0.0535	0	0	0	0
ZMHI	204-5	6-8 cm	11	14	6.9018	1.8276	4.9042	0.1700	0
ZMHI	4-5	8-10 cm	0	0	0	0	0	0	0
ZMHI	6-5	8-10 cm	0	0	0	0	0	0	0
ZMHI	46-5	8-10 cm	1	1	0.3803	0	0.2982	0	0
ZMHI	57-5	8-10 cm	0	0	0.1214	0.1214	0	0	0
ZMHI	204-5	8-10 cm	1	1	0.1464	0	0	0	0
ZMSUB	31-5	0-2 cm	7	19	0.3142	0.2205	0.0937	0	0
ZMSUB	48-5	0-2 cm	27	228	1.0154	0.7186	0.1623	0.0322	0.1023
ZMSUB	59-5	0-2 cm	12	62	0.1885	0.1539	0.0346	0	0
ZMSUB	65-5	0-2 cm	8	15	0.0604	0	0	0	0
ZMSUB	203-5	0-2 cm	15	74	0.9039	0.8109	0.0306	0	0.0624
ZMSUB	31-5	2-4 cm	3	7	0.0883	0	0	0	0
ZMSUB	48-5	2-4 cm	10	17	0.5063	0.3904	0	0	0
ZMSUB	59-5	2-4 cm	9	13	0.1242	0	0	0.0464	0
ZMSUB	65-5	2-4 cm	1	1	0	0	0	0	0
ZMSUB	203-5	2-4 cm	10	37	0.1498	0.0836	0.0183	0	0.0479
ZMSUB	31-5	4-6 cm	1	1	0.2056	0	0	0	0
ZMSUB	48-5	4-6 cm	4	6	0.0275	0	0	0	0
ZMSUB	59-5	4-6 cm	3	3	0.0378	0	0	0	0
ZMSUB	65-5	4-6 cm	0	0	0	0	0	0	0
ZMSUB	203-5	4-6 cm	5	6	0.0900	0	0	0	0
ZMSUB	31-5	6-8 cm	5	5	0.2345	0	0	0	0
ZMSUB	48-5	6-8 cm	0	0	0	0	0	0	0
ZMSUB	59-5	6-8 cm	0	0	0	0	0	0	0
ZMSUB	65-5	6-8 cm	0	0	0	0	0	0	0
ZMSUB	203-5	6-8 cm	1	1	0	0	0	0	0

Appendix Table 11 (Cont.).

Habitat	Sample	Vertical	Taxa	Abundance	Biomass Total	Biomass Polychaete	Biomass Mollusc	Biomass Crustacea	Biomass Echinoderm
ZMSUB	31-5	8-10 cm	0	0	0	0	0	0	0
ZMSUB	48-5	8-10 cm	0	0	0	0	0	0	0
ZMSUB	59-5	8-10 cm	0	0	0	0	0	0	0
ZMSUB	65-5	8-10 cm	0	0	0	0	0	0	0
ZMSUB	203-5	8-10 cm	0	0	0	0	0	0	0
SHALLOW	110-5	0-2 cm	19	108	0.3073	0.2103	0.0813	0.0157	0
SHALLOW	133-5	0-2 cm	27	278	0.5132	0.4397	0.0656	0.0079	0
SHALLOW	136-5	0-2 cm	10	43	0.1028	0	0	0	0
SHALLOW	151-5	0-2 cm	26	210	0.9617	0.6329	0.2662	0.0626	0
SHALLOW	153-5	0-2 cm	19	92	0.5878	0.3067	0.2086	0	0
SHALLOW	110-5	2-4 cm	9	21	0.1122	0.0821	0.0301	0	0
SHALLOW	133-5	2-4 cm	7	22	0.0571	0	0	0	0
SHALLOW	136-5	2-4 cm	5	68	0	0	0	0	0
SHALLOW	151-5	2-4 cm	15	68	0.6165	0.5686	0.0479	0	0
SHALLOW	153-5	2-4 cm	14	92	0.4651	0.3081	0.0871	0	0.0699
SHALLOW	110-5	4-6 cm	3	5	0.0192	0	0	0	0
SHALLOW	133-5	4-6 cm	3	7	0.3709	0	0	0	0.0755
SHALLOW	136-5	4-6 cm	3	20	0	0	0	0	0
SHALLOW	151-5	4-6 cm	12	36	0.0836	0.0725	0	0	0
SHALLOW	153-5	4-6 cm	9	31	0.1913	0	0.0284	0	0.0761
SHALLOW	110-5	6-8 cm	0	0	0	0	0	0	0
SHALLOW	133-5	6-8 cm	5	6	2.9158	0	2.8663	0	0
SHALLOW	136-5	6-8 cm	0	0	0.0292	0	0	0	0
SHALLOW	151-5	6-8 cm	0	11	0.1192	0	0	0	0
SHALLOW	153-5	6-8 cm	2	3	0	0	0	0	0
SHALLOW	110-5	8-10 cm	0	5	0.0578	0	0	0	0
SHALLOW	133-5	8-10 cm	0	0	0	0	0	0	0
SHALLOW	136-5	8-10 cm	0	0	0	0	0	0	0
SHALLOW	151-5	8-10 cm	1	1	0.0252	0	0	0	0.0239
SHALLOW	153-5	8-10 cm	4	4	0.0182	0	0	0	0
INTER	113-5	0-2 cm	12	133	0.2819	0.1975	0.0844	0	0
INTER	119-5	0-2 cm	6	15	0.7334	0.0162	0.7172	0	0
INTER	124-5	0-2 cm	12	56	0.1657	0.0549	0	0.1108	0
INTER	137-5	0-2 cm	14	69	0.1569	0.1407	0.0162	0	0
INTER	148-5	0-2 cm	23	53	0.1890	0.1704	0.0059	0.0127	0
INTER	113-5	2-4 cm	5	7	0.0638	0	0	0	0
INTER	119-5	2-4 cm	6	7	0.0145	0	0	0	0
INTER	124-5	2-4 cm	11	15	0.0552	0	0	0	0
INTER	137-5	2-4 cm	1	1	0.0606	0	0	0	0
INTER	148-5	2-4 cm	3	5	0.0246	0	0.0246	0	0

Appendix Table 11 (Cont.).

Habitat	Sample	Vertical	Taxa	Abundance	Biomass Total	Biomass Polychaete	Biomass Mollusc	Biomass Crustacea	Biomass Echinoderm
INTER	113-5	4-6 cm	2	2	0.0044	0	0	0	0
INTER	119-5	4-6 cm	1	1	0.2583	0	0	0	0
INTER	124-5	4-6 cm	4	4	0.0407	0	0	0	0
INTER	137-5	4-6 cm	2	2	0.0207	0	0	0	0
INTER	148-5	4-6 cm	3	3	0.1009	0	0.1009	0	0
INTER	113-5	6-8 cm	2	7	0.0146	0	0	0	0
INTER	119-5	6-8 cm	2	2	0.2820	0	0	0	0
INTER	124-5	6-8 cm	2	3	0.0496	0	0	0	0
INTER	137-5	6-8 cm	0	0	0	0	0	0	0
INTER	148-5	6-8 cm	2	2	0	0	0	0	0
INTER	113-5	8-10 cm	0	0	0	0	0	0	0
INTER	119-5	8-10 cm	0	0	0	0	0	0	0
INTER	124-5	8-10 cm	3	3	0.5313	0.2952	0	0	0.2361
INTER	137-5	8-10 cm	0	0	0	0	0	0	0
INTER	148-5	8-10 cm	3	4	0.2391	0	0.2391		

Appendix Table 12. Padilla Bay Vertical Distribution of Infauna

	Ulva					Zostera japonica					Low Density Intertidal Zostera marina				
TAXON	I	II	III	IV	V	I	II	III	IV	V	I	II	III	IV	V
Barantolla americana			1	1		7	4	1			13	5	2	3	9
Capitella sp.	2					3	1								
Heteromastus filibranchus															
Heteromastus filiformis													1		
Mediomastus sp.	2	3									1	2		1	
Notomastus tenuis															
Cossura soyeri															
Arenicola pacifica															
Nainereis uncinata															
Scoloplos armiger	2	1									5				
Armandia brevis	2										1				
Aricidea neosuecica															
Paraonis gracilis															
Pherusa plumulosus															
Sphaerodoropsis sphaerulifer															
Laonice cirrata															
Malacoceros glutaeus	106	5	2	1							17	2			
Paraprionospio pinnata															
Polydora ligni											2	2			
Polydora quadrilobata	14					0	6	2							
Polydora socialis															
Polydora (Boccarida) pugetensis															
Prionospio cirrifera															
Prionospio steenstrupi															
Pseudopolydora kempi															
Spiophanes bombyx															
Spio cirrifera	2														
Streblospio benedicti	69					2					5	1			
Magelona longicornis															
Axiothella rubrocinta	3	1				9	2	1			18	7	5	1	
Euclymene sp.															
Maldane sarsi															
Nichomache persona						2									
Owenia fusiformis	2	1													
Chone mollis											1				
Fabricia sabella						5						1			
Chaetozone actuta											1		2		
Cirratulus cirratus															
Tharyx parvus						25	3				1				
Pectinaria californiensis															
Ampharete goesi brazhnikova															
Asabellides lineata															
Eupolymnia heterobranchia		1									5	5	3	5	
Pista cristata															
Polycirrus sp.						3									
Terebellides stroemi															
Sternapsis scutata															
Spirorbis spirillum															
Chaetopteridae															
Brania brevipharyngea						6	1				1	10			1
Exogene molesta	553	7	4	1		1					277	31	6	5	

Appendix Table 12 (Cont.). Vertical Distribution of Infauna

	Low Density Intertidal														
	Ulva					Zostera japonica					Zostera marina				
TAXON	I	II	III	IV	V	I	II	III	IV	V	I	II	III	IV	V
Syllis gracilis															
Pilargis berkelyae															
Eteone longa						6									
Eulalia (Eumida) tubiformis															
Notophyllum tectum															
Phylloduce maculata															
Phylloduce multiseriata															
Platynereis bicanaliculata	1	1	1		1						11	4			
Nepthys caeca															
Nepthys caecoides	1														
Nepthys cornuta franciscana															
Glycera americana															
Glycera capitata															
Glycera tesselata															
Glycinde armiger	1										1				
Lumbrineris californiensis															
Onuphis elegans															
Ophiodromus pugettensis											2		1		
Protodorvillea gracilis															
Schistomeringos pseudorubrovittata												1		1	
Harmothoe imbricata	6										8			1	
Harmothoe lunulata															
Unidentified Polynoidea															
Pholoe minuta															
Aphroditidae															
Unidentified Polychaete Sp. 1	23	1				1	2								
Unidentified Polychaete Sp. 2															
Tubificoides foliatus	89	7	1			24	8	1			91	18	2	4	1
Tubificidae sp. 2															
Amphichaeta sp.						1									
Grania paucispina											27	2	3		
Acila castraensis															
Clinocardium nuttallii															
Corbula sp.															
Crytptogemma ?															
Lucina tenuisculpta															
Lyonsia californica															
Macoma nasuta	1														
Macoma sp.															
Mysella tumida	2	2	1								3	1			
Nuculana hamata															
Pandora bilorata															
Prothaca staminea															
Solen perambilis															
Tellina modesta															
Tellinidae															
Transenella tantilla	41	2		1							5	2	1		
Unidentified Bivalve Sp. 1															
Unidentified Bivalve Sp. 2															
Yoldia myalis															
Admete gracilior															

Appendix Table 12 (Cont.). Vertical Distribution of Infauna

	Low Density Intertidal														
	Ulva					Zostera japonica					Zostera marina				
TAXON	I	II	III	IV	V	I	II	III	IV	V	I	II	III	IV	V
Alia tuberosa															
Batillaria zonalis						8									
Crepidula adunca															
Crepidula fornicata															
Cyclostremella concordia															
Cylichna attonsa															
Dentalium rectuis															
Haminoea vesicula	1										1				
Lacuna porrecta	2	1									5				
Nassarius fraterculus															
Odostomia (Chrysallida) sp.															
Odostomia (Odostomia) sp.															
Solariella perambilis											1				
Turbonilla sp.															
Anisogammarus pugettensis	6	4	3	6			1								
Eogammarus confericulus						2									
Ampelisca pugetica															
Photis brevipes															
Amphilocus litoralis															
Monculodes sp.															
Parapleustes sp.															
Pontogeneia sp.															
Stenothoidae															
Orchomene cf pinguis															
Corophium acherusicum	166	3				3	1	2			12		1	3	1
Ampithoe valida		1			1	7	1								
Aorides intermedius															
Cheirimedeia macrodactyla															
Ericthonius hunteri				1		1									
Eohaustorius washingtonianus															
Eobrolgus spinosus	60	3	1			26					23	4	1	1	
Eyakia robustus															
Rhepoxynius tridentata															
Caprella laeviscula															
Caprella striata															
Colanthura sp.															
Gnorimosphaeroma noblei															
Idotea resecata															
Idotea rufuscens						1									
Munna fernaldi	1										2				
Synidotea bicuspida															
Synidotea nodulosa															
Eudorella sp.															
Leptocuma sp. 1	51		3			9					3				
Leptocuma sp. 2											1				
Leucon sp.	3					3									
Oxyurostylis sp.															
Leptochelia savigni	553	17	19	4	3	1					401	29	3	19	1
Leptognatha gracilis															
Pancolus californiensis						0	2				45	1		3	4
Nebalia sp.						1									

Appendix Table 12 (Cont.).

	Low Density Intertidal														
	Ulva					Zostera japonica					Zostera marina				
TAXON	I	II	III	IV	V	I	II	III	IV	V	I	II	III	IV	V
Anoplodactylus virintestinalis															
Chironomidae															
Collembolla															
Cancer magister															
Hemigrapsus sp.															
Majidae															
Pinnixia tubicola		1									1		1		
Amphiodia occidentalis											1				
Leptosynapta clarki											4	1			
Lepasterias hexactis															
Nemertea												1			
Enteroneusta				1						1					
Sipunculida															

I = 0-2 cm
II = 2-4 cm
III = 4-6 cm
IV = 6-8 cm
V = 8-10 cm

Appendix Table 12 (Cont.). Vertical Distribution of Infauna

	High Density Intertidal Zostera marina					Subtidal Zostera marina					Subtidal Shallow (< 5m)				
TAXON	I	II	III	IV	V	I	II	III	IV	V	I	II	III	IV	V
Barantolla americana	12	16	9			11	9	1			3	2	1		
Capitella sp.						1									
Heteromastus filibranchus															
Heteromastus filiformis															
Mediomastus sp.	6	5		1		2	2	1	1			1	4		
Notomastus tenuis			1	3	1										
Cossura soyeri											1	1			
Arenicola pacifica															
Nainereis uncinata															
Scoloplos armiger	1					1					6	3	2	1	
Armandia brevis	2										5	1			
Aricidea neosuecica											22	28	18		
Paraonis gracilis															
Pherusa plumulosus															
Sphaerodoropsis sphaerulifer															
Laonice cirrata															
Malacoceros glutaeus	6	3	1			7	3	1							
Paraprionospio pinnata												1	1		
Polydora ligni															
Polydora quadrilobata	2														
Polydora socialis											1				
Polydora (Boccarida) pugetensis															
Prionospio cirrifera						5	2				2	10	7	1	
Prionospio steenstrupi											17	8	3	5	
Pseudopolydora kempi															
Spiophanes bombyx											2	5			
Spio cirrifera															
Streblospio benedicti															
Magelona longicornis															
Axiothella rubrocinta	10	6	2				1	1						1	
Euclymene sp.															
Maldane sarsi															
Nichomache persona															
Owenia fusiformis	3	2	1			55	3	1			292	47	11	1	
Chone mollis	2					4									
Fabricia sabella															
Chaetozone actuta															
Cirratulus cirratus															
Tharyx parvus		2													
Pectinaria californiensis															
Ampharete goesi brazhnikova						1					6	1			
Asabellides lineata															
Eupolymnia heterobranchia	11	5	2	2		3		1							
Pista cristata							1								
Polycirrus sp.															
Terebellides stroemi															
Sternapsis scutata												1			
Spirorbis spirillum	2														
Chaetopteridae															
Brania brevipharyngea	7	1	4			2					7				
Exogene molesta	145	4	16	1		28	1		1		5	2			

Appendix Table 12 (Cont.). Vertical Distribution of Infauna

	High Density Intertidal Zostera marina					Subtidal Zostera marina					Subtidal Shallow (< 5m)				
TAXON	I	II	III	IV	V	I	II	III	IV	V	I	II	III	IV	V
Syllis gracilis											8	26	1		
Pilargis berkelyae															
Eteone longa											2				
Eulalia (Eumida) tubiformis						1									
Notophyllum tectum															
Phylloduce maculata						1									
Phylloduce multiseriata															
Platynereis bicanaliculata	4	2	5	2		8	2	1	1						
Nepthys caeca															
Nepthys caecoides											1		2		
Nepthys cornuta franciscana															
Glycera americana												1			
Glycera capitata															
Glycera tesselata															
Glycinde armiger	3	1				1					5	2			
Lumbrineris californiensis															
Onuphis elegans															
Ophiodromus pugettensis	13	3	1	1		2			1			8			1
Protodorvillea gracilis															
Schistomeringos pseudorubrovittata	21	11				15	5						1		
Harmothoe imbricata	10	1	5	2		4	6					3	1		
Harmothoe lunulata															
Unidentified Polynoidea															
Pholoe minuta				1		2					4	2	2	1	
Aphroditidae															
Unidentified Polychaete Sp. 1															
Unidentified Polychaete Sp. 2															
Tubificoides foliatus	54	11	4			28	5				69	5	4	2	
Tubificidae sp. 2															
Amphichaeta sp.															
Grania paucispina	9	5				8									
Acila castraensis															
Clinocardium nuttallii											9		2		
Corbula sp.															
Crytptogemma ?															
Lucina tenuisculpta											4	3			
Lyonsia californica											1				
Macoma nasuta	2	1		2		2					1			1	
Macoma sp.															
Mysella tumida	32	15				54	16	4			33	69	26	3	3
Nuculana hamata															
Pandora bilorata															
Prothaca staminea															
Solen perambilis															
Tellina modesta											1	1			
Tellinidae															
Transenella tantilla	1					6	2	1			22	6			3
Unidentified Bivalve Sp. 1				1											
Unidentified Bivalve Sp. 2															
Yoldia myalis															
Admete gracilior															

Appendix Table 12 (Cont.). Vertical Distribution of Infauna

	High Density Intertidal Zostera marina					Subtidal Zostera marina					Subtidal Shallow (< 5m)				
TAXON	I	II	III	IV	V	I	II	III	IV	V	I	II	III	IV	V
Alia tuberosa															
Batillaria zonalis	3					1									
Crepidula adunca															
Crepidula fornicata															
Cyclostremella concordia											1				
Cylichna attonsa															
Dentalium rectuis															
Haminoea vesicula															
Lacuna porrecta	1		1			1									
Nassarius fraterculus															
Odostomia (Chrysallida) sp.			10			10									
Odostomia (Odostomia) sp.				1		5									
Solariella perambilis			1						1						
Turbonilla sp.															
Anisogammarus pugettensis															
Eogammarus confericulus						1									
Ampelisca pugetica	1										2				
Photis brevipes		1									45	1	1	1	1
Amphilocus litoralis															
Monculodes sp.						1									
Parapleustes sp.															
Pontogeneia sp.			1												
Stenothoidae															
Orchomene cf pinguis											10				
Corophium acherusicum	11	2	19	1		1					9	1			
Ampithoe valida															
Aorides intermedius							1								
Cheirimedeia macrodactyla											48			1	1
Ericthonius hunteri	1														
Eohaustorius washingtonianus															
Eobrolgus spinosus	41	1	1	1		15					1				
Eyakia robustus															
Rhepoxynius tridentata											8	5			
Caprella laeviscula	4					2									
Caprella striata															
Colanthura sp.															
Gnorimosphaeroma noblei															
Idotea resecata	3														
Idotea rufuscens	1					3	1								
Munna fernaldi											3	1			
Synidotea bicuspida															
Synidotea nodulosa											31	1			
Eudorella sp.											5				
Leptocuma sp. 1	1		2			1					1				
Leptocuma sp. 2											1				
Leucon sp.											3				
Oxyurostylis sp.											3				
Leptochelia savigni	118	4	8	4		83	3	1			24	5	1	1	
Leptognatha gracilis															
Pancolus californiensis	3														
Nebalia sp.	2					5									

Appendix Table 12 (Cont.).

	High Density Intertidal Zostera marina					Subtidal Zostera marina					Subtidal Shallow (< 5m)				
TAXON	I	II	III	IV	V	I	II	III	IV	V	I	II	III	IV	V
Anoplodactylus virintestinalis															
Chironomidae															
Collembolla															
Cancer magister															
Hemigrapsus sp.															
Majidae															
Pinnixia tubicola				1			2						1		
Amphiodia occidentalis	12	1	1			6	2	1			5	14	6	1	
Leptosynapta clarki	21	1	1	3		11	5	2	1		1	6	3		1
Lepasterias hexactis															
Nemertea			1				3				1		1		
Enteroneusta					1										
Sipunculida															

I = 0-2 cm
II = 2-4 cm
III = 4-6 cm
IV = 6-8 cm
V = 8-10 cm

Appendix Table 12 (Cont.). Vertical Distribution of Infauna

	Subtidal				
	Intermediate (5-20m)				
TAXON	I	II	III	IV	V
Barantolla americana	1				2
Capitella					
Heteromastus filibranchus					
Heteromastus filiformis					
Mediomastus sp.			1	2	1
Notomastus tenuis					
Cossura soyeri	2	1			
Arenicola pacifica					
Nainereis uncinata					
Scoloplos armiger	2		1		
Armandia brevis	6		1		2
Aricidea neosuecica					
Paraonis gracilis					
Pherusa plumulosus					
Sphaerodoropsis sphaerulifer					
Laonice cirrata			1		
Malacoceros glutaeus					
Paraprionospio pinnata					
Polydora ligni					
Polydora quadrilobata					
Polydora socialis			1		
Polydora (Boccarida) pugetensis					
Prionospio cirrifera				1	
Prionospio steenstrupi	20	2	1		
Pseudopolydora kempi					
Spiophanes bombyx					
Spio cirrifera					
Streblospio benedicti					
Magelona longicornis					
Axiothella rubrocinta		1			
Euclymene sp.	2				1
Maldane sarsi					
Nichomache persona					
Owenia fusiformis	187	4	1	6	
Chone mollis					
Fabricia sabella					
Chaetozone actuta					
Cirratulus cirratus					
Tharyx parvus					
Pectinaria californiensis	1				
Ampharete goesi brazhnikova	2				
Asabellides lineata					
Eupolymnia heterobranchia					
Pista cristata				1	
Polycirrus sp.					
Terebellides stroemi					
Sternapsis scutata					
Spirorbis spirillum					
Chaetopteridae					
Brania brevipharyngea	3				
Exogene molesta	1				

Appendix Table 12 (Cont.). Vertical Distribution of Infauna

	Subtidal				
	Intermediate (5-20m)				
TAXON	I	II	III	IV	V
Syllis gracilis					
Pilargis berkelyae					
Eteone longa					
Eulalia (Eumida) tubiformis				1	
Notophyllum tectum					
Phylloduce maculata					
Phylloduce multiseriata					
Platynereis bicanaliculata					
Nepthys caeca					
Nepthys caecoides					
Nepthys cornuta franciscana	6	3			
Glycera americana			1		
Glycera capitata					
Glycera tesselata					
Glycinde armiger	4				
Lumbrineris californiensis	7	3			
Onuphis elegans	1				
Ophiodromus pugettensis		1			
Protodorvillea gracilis					
Schistomeringos pseudorubrovittata					
Harmothoe imbricata					
Harmothoe lunulata					
Unidentified Polynoidea					
Pholoe minuta	1				
Aphroditidae					
Unidentified Polychaete Sp. 1					
Unidentified Polychaete Sp. 2					
Tubificoides foliatus	4	2			
Tubificidae sp. 2					
Amphichaeta sp.					
Grania paucispina					
Acila castraensis	3	1		1	
Clinocardium nuttallii	1				
Corbula sp.					
Crytptogemma ?					
Lucina tenuisculpta	6	1	1		2
Lyonsia californica					
Macoma nasuta			1		
Macoma sp.					
Mysella tumida					
Nuculana hamata					
Pandora bilorata					
Prothaca staminea					
Solen perambilis	1				
Tellina modesta	2	1			
Tellinidae					
Transenella tantilla	14	3	1		
Unidentified Bivalve Sp. 1					
Unidentified Bivalve Sp. 2					
Yoldia myalis					
Admete gracilior					

Appendix Table 12 (Cont.). Vertical Distribution of Infauna

	Subtidal				
	Intermediate (5-20m)				
TAXON	I	II	III	IV	V
Alia tuberosa					
Batillaria zonalis					
Crepidula adunca					
Crepidula fornicata					
Cyclostremella concordia					
Cylichna attonsa					
Dentalium rectuis	2				
Haminoea vesicula					
Lacuna porrecta					
Nassarius fraterculus		1			
Odostomia (Chrysallida) sp.					
Odostomia (Odostomia) sp.					
Solariella perambilis					
Turbonilla sp.					
Anisogammarus pugettensis					
Eogammarus confericulus					
Ampelisca pugetica					
Photis brevipes					
Amphilocus litoralis					
Monculodes sp.					
Parapleustes sp.					
Pontogeneia sp.					
Stenothoidae					
Orchomene cf pinguis					
Corophium acherusicum					
Ampithoe valida					
Aorides intermedius					
Cheirimedeia macrodactyla	4	1			
Ericthonius hunteri					
Eohaustorius washingtonianus					
Eobrolgus spinosus					
Eyakia robustus	3	3			
Rhepoxynius tridentata	5				
Caprella laeviscula					
Caprella striata					
Colanthura sp.					
Gnorimosphaeroma noblei					
Idotea resecata					
Idotea rufuscens					
Munna fernaldi	6	1			
Synidotea bicuspida					
Synidotea nodulosa	4				
Eudorella sp.		1	1		
Leptocuma sp. 1					
Leptocuma sp. 2	2				
Leucon sp.	9				
Oxyurostylis sp.	4				
Leptochelia savigni	1				
Leptognatha gracilis					
Pancolus californiensis	1				
Nebalia sp.					

Appendix Table 12 (Cont.).

	Subtidal				
	Intermediate (5-20m)				
TAXON	I	II	III	IV	V
Anoplodactylus virintestinalis					
Chironomidae					
Collembolla					
Cancer magister					
Hemigrapsus sp.					
Majidae					
Pinnixia tubicola					
Amphiodia occidentalis	8			1	4
Leptosynapta clarki					
Lepasterias hexactis					
Nemertea				1	
Enteroneusta					
Sipunculida					

I = 0-2 cm

II = 2-4 cm

III = 4-6 cm

IV = 6-8 cm

V = 8-10 cm

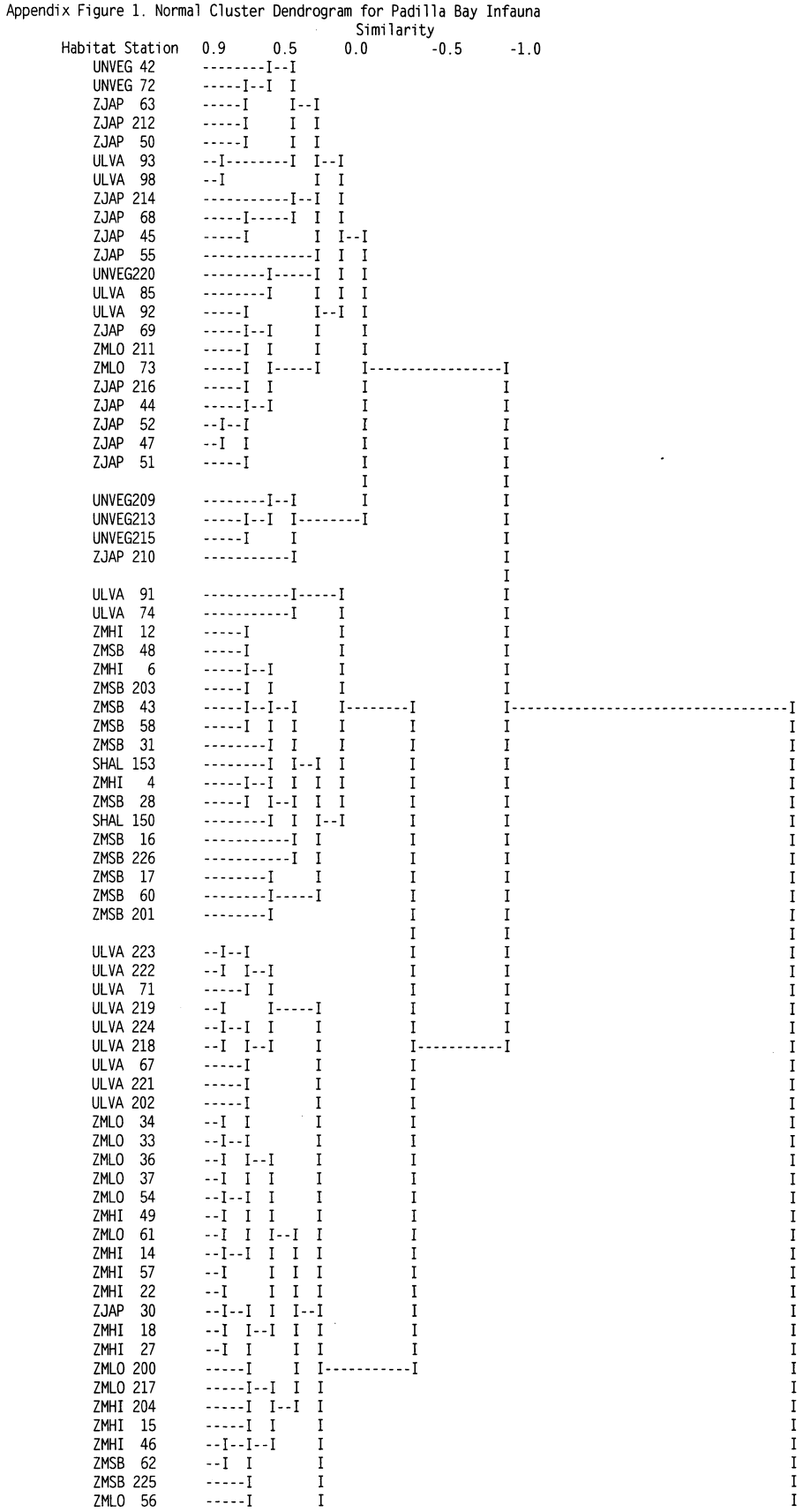
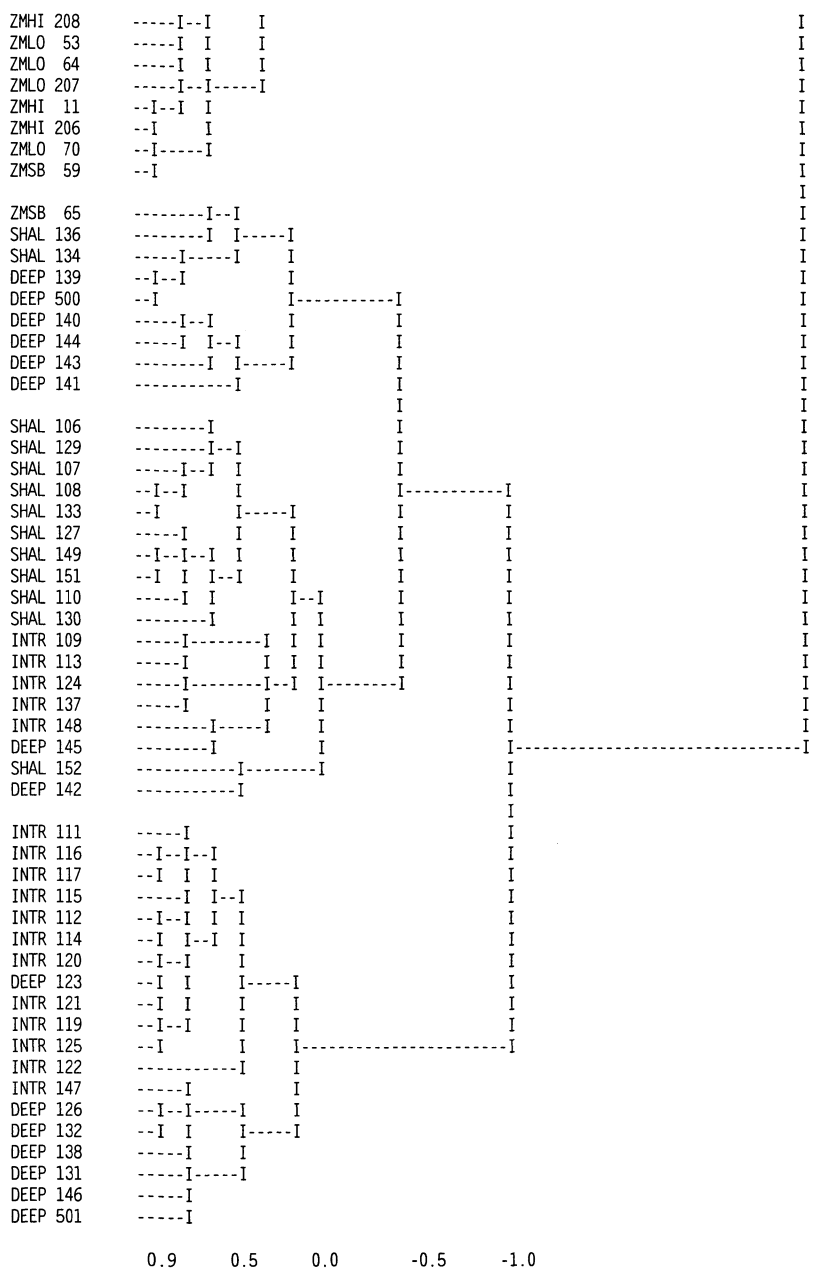
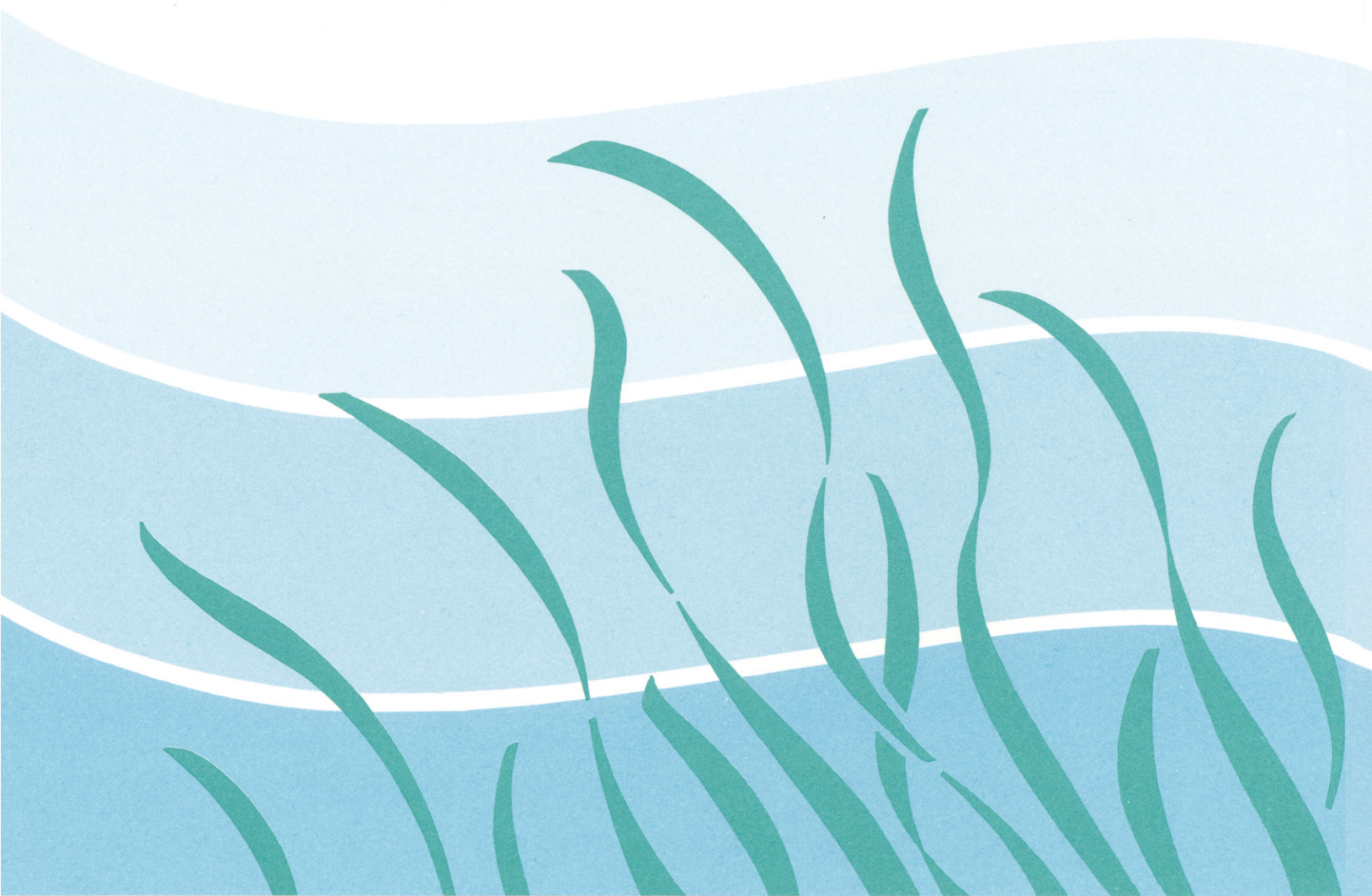
Appendix Table 13. Summary Sediment Data (Percentage Sediment Grades and Organic Content)

Station	Gravel	Sand Very Coarse	Sand Coarse	Sand Medium	Sand Fine	Sand Very Fine	Sand Total	Silts+Clays	Organics
4	0.157	0.024	0.090	0.371	30.407	26.957	57.849	41.994	3.124
6	2.380	0.077	2.546	30.644	33.717	10.381	77.365	20.255	2.068
18	0.362	0.567	5.428	47.470	21.658	4.691	79.814	19.824	1.622
31	0	0.102	0.956	10.963	17.222	14.930	44.173	55.827	3.407
33	0.972	1.049	10.999	50.887	16.862	3.209	83.006	16.022	1.404
42	31.680	4.860	4.045	28.788	9.573	2.962	50.228	18.092	1.339
44	0.328	0.458	2.603	21.814	24.696	13.047	62.618	37.054	2.787
46	1.287	2.078	12.298	39.339	16.707	3.070	73.492	25.221	2.177
48	0.081	1.147	9.225	35.264	18.755	6.766	71.157	28.762	2.312
51	3.667	1.931	2.885	36.144	24.708	5.586	71.254	25.079	1.602
53	0	0.346	3.210	42.074	18.452	5.842	69.924	30.076	2.360
55	10.001	1.046	1.221	5.300	8.806	7.046	23.419	66.580	2.874
57	3.610	2.772	9.596	41.890	17.737	10.499	82.494	13.896	1.821
59	1.001	0.839	6.607	21.749	11.005	8.429	48.629	50.370	2.672
61	0.825	2.731	7.409	27.718	14.642	13.510	66.010	33.165	2.024
64	0	0.107	0.063	0.324	60.535	18.463	79.492	20.508	1.625
65	0	0	0	0.209	9.018	8.987	18.214	81.786	4.918
67	0	0.097	0.091	0.501	64.674	18.610	83.973	16.027	1.722
69	0	0.173	0.314	26.816	18.759	5.284	51.346	48.654	2.288
71	0.475	0.279	0.257	0.438	32.644	20.028	53.646	45.879	2.551
82	0	0	0.017	0.241	10.830	19.588	30.676	69.324	2.937
92	0	0.108	0.777	4.289	19.123	13.110	37.407	62.593	3.155
106	0	0.065	0.228	0.580	64.658	34.469	100.000	0	3.337
107	0	0	0.230	3.815	44.782	27.918	76.745	23.255	1.936
108	0	0.109	1.535	32.181	23.672	10.259	67.756	32.244	1.763
109	0	0.075	0.055	0.155	5.754	26.947	32.986	67.014	5.525
110	0	0.038	0.058	0.299	30.137	21.924	52.456	47.544	3.184
112	7.578	1.125	0.821	3.503	14.013	72.960	92.422	0	5.458
113	0	0.038	0.035	0.119	1.371	9.085	10.648	89.352	7.408
114	0.697	0.130	0.113	0.275	1.593	8.474	10.585	88.718	5.792
116	0.855	2.135	0.826	1.833	7.982	86.369	99.145	0	6.055
117	0.418	0.137	0.094	0.271	1.254	3.526	5.282	94.300	6.262
121	0.181	0.068	0.033	0.140	1.099	6.006	7.346	92.473	6.100
122	0.307	0.102	0.133	0.307	2.643	8.509	11.694	87.999	5.036
123	0.031	0.073	0.031	0.111	0.583	3.929	4.727	95.242	5.753
124	0.086	0.463	9.173	35.499	14.184	7.004	66.323	33.591	1.658
125	0.474	0.219	0.258	0.647	1.868	9.249	12.241	87.285	5.882
126	0.333	0.077	0.051	0.430	2.718	6.404	9.680	89.987	5.559
127	0	4.006	21.41	44.959	10.774	1.995	83.144	16.856	0.993

Appendix Table 13 (Cont.)

Station	Gravel	Sand Very Coarse	Sand Coarse	Sand Medium	Sand Fine	Sand Very Fine	Sand Total	Silts+Clays	Organics
129	0.031	0.132	0.671	5.600	20.201	12.875	39.479	60.490	3.891
130	0	0.889	18.947	35.640	9.509	4.304	69.289	30.711	1.285
131	0.367	0.132	0.345	16.526	25.147	4.339	46.489	53.144	2.442
132	0	0.139	0.068	0.695	10.821	6.001	17.724	82.276	4.120
133	0	0.108	0.248	7.340	43.199	17.697	68.592	31.408	1.992
134	0	1.259	20.431	51.494	16.479	0.73	90.393	9.607	0.922
136	0.304	4.713	27.121	48.561	10.201	0.744	91.340	8.356	0.939
137	0.011	0.164	5.620	39.814	13.993	3.515	63.106	36.883	1.466
138	0.175	0.196	0.328	1.899	23.480	8.791	34.694	65.131	4.035
139	46.924	2.884	11.709	19.878	4.624	1.282	40.377	12.699	1.690
140	2.731	2.151	15.64	36.160	6.903	1.473	62.327	34.942	1.460
141	4.425	3.350	7.057	4.965	1.166	0.621	17.159	78.416	2.392
142	0.427	4.435	17.302	58.483	14.059	0.394	94.673	4.900	1.144
143	3.528	2.667	1.661	19.531	21.517	3.754	49.130	47.342	2.486
144	1.794	2.380	1.016	16.185	24.010	7.950	51.541	46.665	2.322
145	5.135	2.664	24.454	43.827	7.226	0.851	79.022	15.843	0.947
146	0.094	0.097	0.075	2.416	26.227	16.920	45.735	54.171	2.695
147	0	0.044	0.083	1.58	15.875	4.668	22.250	77.750	3.843
148	0.013	0.086	0.109	0.873	32.053	16.883	50.004	49.983	2.487
149	0.071	0.112	0.157	0.8	41.257	18.834	61.160	38.769	1.919
150	2.704	8.720	24.160	47.070	11.033	1.611	92.594	4.702	0.928
151	0	0.168	1.181	18.566	35.665	4.054	59.634	40.366	2.442
152	0	0.228	0.226	29.513	50.354	6.729	87.050	12.950	1.266
153	0	0.093	0.147	0.421	31.27	17.76	49.691	50.309	3.163
201	0	0.089	0.808	3.459	12.627	15.061	32.044	67.956	4.571
203	0	0	0	1.425	52.07	13.523	67.018	32.982	2.009
204	0.173	0.297	0.086	1.076	47.926	15.170	64.555	35.272	8.957
205	0.524	0.063	0.085	10.418	51.45	8.964	70.980	28.496	1.759
207	0	0.197	0.685	1.820	4.961	15.701	23.364	76.636	3.790
209	3.022	0.284	0.838	8.782	6.070	5.747	21.721	75.257	4.672
210	0	0.248	0.474	17.624	18.213	8.195	44.754	55.246	2.305
213	0	0.218	1.504	16.011	25.568	8.570	51.871	48.129	1.918
221	0	0	0.050	0.404	36.701	17.96	55.115	44.885	2.662
222	0	0.190	0.173	10.935	50.281	14.927	76.506	23.494	1.812
224	0.441	0.055	0.022	6.397	49.419	15.216	71.109	28.450	1.978
226	38.167	0	0.047	10.958	14.557	6.148	31.710	30.123	1.939
500	19.723	3.389	16.164	25.282	5.369	1.824	52.028	28.249	1.435
501	0.045	0.179	0.302	19.012	19.777	3.936	43.206	56.749	3.084

Appendix Figure 1. Normal Cluster Dendrogram for Padilla Bay Infauna



Appendix Figure 1. (Cont.)