



EVERETT HARBOR ACTION PROGRAM:

Analysis of Toxic Problem Areas

TC-3338-26
FINAL REPORT
APPENDICES

September 1988

Prepared by
PTI Environmental Services
and
Tetra Tech, Inc.

Prepared for
U.S. Environmental Protection Agency
Region X - Office of Puget Sound
Seattle, Washington

TC-3338-26
Final Report

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APPENDICES

for

U.S. Environmental Protection Agency
Region X, Office of Puget Sound
Seattle, WA 98005

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APPENDIX A

EVERETT HARBOR STATION LOCATIONS

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TABLE A-1. EVERETT HARBOR SEDIMENT CHEMISTRY STATION LOCATIONS, DEPTHS, AND DESCRIPTIONS

Station	East coord.	North coord.	Depth MLLW (m)	Description
ES-01	1669900	385010	2.5	Ebey Slough, peak of second bend from mouth
ES-02	1667110	383220	7.7	Ebey Slough, peak of first bend from mouth
ES-03	1664950	383560	0.0	Ebey Slough, mouth
EW-01	1661480	363720	5.1	NE corner of East Waterway, ~150' W of E bank, 150' S of N bank
EW-02	1660580	363720	11.2	North end of East Waterway
EW-03	1660240	363790	9.5	NW corner of East Waterway, just inside pier, between pier & shore
EW-04	1660780	362010	8.7	Off Scott diffuser under pier, ~300' from south end of pier
EW-05	1660130	362280	10.5	Center of East Waterway; .17nmi to NW corner of pier 3
EW-06	1659480	362630	7.5	Between piers, northern gap; West side of East Waterway
EW-07	1661100	361610	3.7	Between piers, N-Scott, S-Dunlap, due south of red shed, Scott C1
EW-08	1659960	361840	8.9	Center of mouth of East Waterway
EW-09	1659220	362250	6.8	Between Pier B and pier south of Pier B
EW-10	1660250	360320	9.1	Near head of slip between piers 1 & 3, East Waterway
EW-11	1658770	361420	8.7	Due S of end of jetty, entrance to East Waterway, in line with Pier 3
EW-12	1659800	359910	4.7	South of pier 1, between pier & dolphins, between shore & end of pier
EW-13	1659170	359400	8.2	NW corner of Weyerhaeuser pier (NE corner of Ocean Odyssey)
EW-14	1658710	358940	9.8	Weyerhaeuser pier near SE corner of Ocean Odyssey, W off pump
EW-15	1658100	358250	12.4	S end of Weyerhaeuser pier, mouth of East Waterway, ~20' off pier face
NG-01	1657500	357950	8.1	Off Pigeon Creek #1, nearly due west of sign for pipe outfall
NG-02	1655158	355375	8.6	Off Pigeon Creek #2, ~100m directly offshore pipe drains
NG-03	1647260	353600	8.2	Off Powder Mill Gulch, ~1000m directly offshore discharge pipes
NG-04	1643480	351600	6.9	Off small boat launch east of Mukilteo fuel depot
NG-05	1642840	351420	8.3	NW end Mukilteo fuel depot, just east of tip of fuel dock
NG-06	1642220	350580	10.2	Mukilteo fuel depot, directly off 4th tank from E end of series
NG-07	1642220	351000	14.3	End of fuel dock at Mukilteo, mid pier-face, about 60' from end
NG-08	1642060	351260	46.4	NW pier off oil tanks
NG-09	1641560	350560	10.5	Near fuel dock (southwestern corner)
NG-10	1640200	350240	9.0	~500' offshore pier at NMFS Mukilteo lab
NG-11	1639810	350140	8.1	West of ferry dock, Mukilteo
NG-12	1657700	357200		Pigeon Creek #1 outfall at island in center of water.
NG-13	1655580	355000		West of Pigeon Creek #2 outfall
NG-14	1647260	352570		Powder Mill Gulch, 50' from outfall, 20' west of creek
NG-15	1642380	350410		Mukilteo ferry terminal/oil tanks, west of Japanese Gulch
OG-01	1656450	357800	82.8	Scott deepwater outfall, across from Weyerhaeuser sulfite mill
OG-02	1656340	357620	85.2	Scott deepwater outfall 2, across from Weyerhaeuser sulfite mill
OG-03	1656110	357300	83.7	Scott deepwater outfall 3, across from Weyerhaeuser sulfite mill
OG-04	1655840	357020	95.3	Scott deepwater outfall 4, across from Weyerhaeuser sulfite mill
OG-05	1655600	356790	91.1	Scott deepwater outfall 5, across from Weyerhaeuser sulfite mill
OG-06	1655860	357410	101.0	Scott deepwater outfall 6, across from Weyerhaeuser sulfite mill
OG-07	1656390	357210	49.6	Scott deepwater outfall 7, across from Weyerhaeuser sulfite mill
PS-02	1608440	418370	7.9	Port Susan 2.8 nmi to Kayak Point
PS-03	1614180	411060	9.1	mid-Port Susan, 2.24 nmi to Kayak Point
PS-04	1619520	405050	8.7	S Port Susan, off houses on S end beach, between bulkheads on beach
SD-01	1658200	378340	4.2	Snohomish Delta, W of Priest Point, S of where spit joins bluff
SD-02	1652820	364922	9.6	Snohomish Delta, SW of Jetty Island, NE of buoy
SD-03	1656710	362650	9.5	Snohomish Delta, slightly SW of Southern tip of Jetty Island
SR-01	1670350	365850	6.8	Snohomish River near I-5
SR-02	1671130	369590	1.8	Snohomish River, east side of little island near Everett Lagoon
SR-03	1668440	373760	7.7	Snohomish River, near Rt. 529
SR-04	1668200	373840	3.2	Snohomish River, near railroad bridge
SR-05	1667760	374090	2.2	Snohomish River, below railroad bridge, off
SR-06	1659750	372320	3.9	Snohomish River/Port Gardner, near Jetty Isl, inside S bend in Jetty
SR-07	1661590	367040	1.0	N corner of Everett Marina ~80' offshore, next to large shed
SR-08	1658760	363750	10.9	Mouth of Snohomish River about 2/3 of way to Jetty Island
SS-01	1669780	380990	3.5	Steamboat Slough, near drawbridges
SS-02	1666710	379650	1.5	Steamboat Slough, off Weyerhaeuser Kraft mill ponds
SS-03	1665540	379250	0.8	Steamboat Slough, off inlet toward Smith Island
SS-04	1665430	379440	2.8	Steamboat Slough, across from inlet toward Smith Island, midstream
SS-05	1665380	379700	1.2	Steamboat Slough, across from inlet toward Smith Island, breakwater
SS-06	1664490	379200	1.3	Steamboat Slough, at mouth near left bank

APPENDIX B

**CHEMICAL AND PHYSICAL DATA COLLECTED DURING
THE EVERETT HARBOR ACTION PROGRAM**

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CHEMICAL AND PHYSICAL DATA COLLECTED DURING
THE EVERETT HARBOR ACTION PROGRAM

Chemical and physical data collected in support of the Everett Harbor Action Program during September/October 1985 are presented in the following appendix. Data qualifiers were used to describe, clarify, or explain data values. A complete list of data qualifiers used in the Everett Harbor Action Program is provided below:

- U = The compound or element was not detected at the detection limit shown.
- E = The reported concentration is an estimate. The estimated qualifier was assigned for a variety of reasons including exceedance of control limits for calibration, precision, accuracy, and holding times. Data qualified as estimates are acceptable but have a greater uncertainty associated with them than data that are not qualified.
- B = Concentration was corrected for blank contribution. Blank contribution was greater than or equal to the sample value, therefore the reported value is the detection limit.
- Z = Concentration was corrected for blank contribution. Value still exceeds the detection limit.
- X = This qualifier was assigned if the labeled internal standard recovery reported by the laboratory was less than 10 percent.
- L = This qualifier indicates that the value is less than the maximum shown. An "L" qualifier was applied to a group sum

TABLE B-1. CONCENTRATIONS (MG/KG DRY WEIGHT) OF METALS
IN EVERETT HARBOR SEDIMENTS

Station	Sampling Date	Rep	Antimony	Arsenic	Cadmium	Chromium	Copper	Iron
ES-01	10/06/86		E11.9	19.7	0.18	98	26.6	29300
ES-02	10/06/86		E3.37	9.7	0.086	99	25.3	27600
ES-03	10/06/86		E2.91	9.8	0.14	153	24.3	29500
EW-01	10/07/86		E6.30	15.7	4.62	94	84.6	27700
EW-04	09/30/86		E7.75	13.9	2.68	68	63.6	16600
EW-07	09/30/86	1	E17.4	20.1	1.41	102	68.2	28300
EW-07	09/30/86	2	E46.7	19.3	1.67	132	77.9	34200
EW-07	09/30/86	3	E16.1	22.9	1.35	115	67.4	29700
EW-07	09/30/86	Mean	E26.7	20.8	1.48	116	71.2	30700
EW-10	10/01/86		E7.92	17.0	2.73	102	74.7	31200
EW-11	09/30/86		E4.55	17.0	1.67	96	62.0	34200
EW-12	10/01/86		E2.33	6.3	0.20	61	17.6	18700
EW-13	10/01/86		E13.6	26.9	1.71	98	79.6	22900
EW-14	10/01/86		E203	685	7.94	127	1010	90600
EW-15	10/01/86		E7.95	6.1	0.56	134	43.2	29100
NG-01	10/02/86		E2.44	4.60	0.073	107	16.9	21100
NG-02	10/02/86		E2.40	5.74	0.060	82	14.9	22300
NG-03	10/02/86		E2.18	5.55	0.040	157	11.7	21600
NG-04	10/02/86		E1.94	3.79	0.047	108	10.6	20300
NG-05	10/02/86		E1.69	2.62	0.11	65	12.4	20300
NG-06	10/08/86		E1.69	4.75	0.11	220	14.7	24900
NG-07	10/02/86		E1.21	4.87	0.054	59	14.6	27300
NG-08	10/02/86		E2.66	5.2	0.14	142	21.0	28900
NG-09	10/03/86		E6.22	9.0	0.68	170	24.9	23200
NG-10	10/03/86		E2.42	5.2	0.14	72	17.7	22100
NG-11	10/03/86	1	E4.33	3.5	0.11	94	22.1	21200
NG-11	10/03/86	2	E4.83		0.11			
NG-11	10/03/86	Mean	E4.58	3.5	0.11	94	22.1	21200
NG-12	10/15/86		E2.16	4.3	0.084	95	17.7	24600
NG-13	10/15/86		E2.18	4.63	0.068	97	20.0	23900
NG-14	10/15/86		E2.40	4.2	0.14	201	17.7	27500
NG-15	10/15/86		E2.69	5.1	0.094	271	17.2	25800
OG-01	10/09/86		E3.23	8.5	0.56	119	34.1	26600
OG-02	10/09/86		E3.27	6.6	0.64	98	30.3	24600
OG-03	10/09/86		E2.63	6.7	0.47	84	24.9	21700
OG-04	10/09/86		E3.27	8.8	0.46	94	27.8	23900
OG-05	10/09/86		E3.28	7.9	0.36	93	27.7	24000
OG-06	10/09/86		E3.51	12.7	0.57	120	37.5	29000
OG-07	10/09/86		E2.36	8.1	0.32	122	19.9	23100
PS-02	10/13/86	1	E1.31	6.7	0.070	232	15.0	29600
PS-02	10/13/86	2	E1.97		0.067			
PS-02	10/13/86	Mean	E1.64	6.7	0.068	232	15.0	29600
PS-03	10/13/86		E2.18	9.0	0.082	89	16.7	26800
PS-04	10/10/86		E1.52	10.1	0.047	145	13.6	23900
SD-01	10/09/86		E2.88	8.7	0.066	123	18.5	29800

TABLE B-1. (Continued)

Station	Sampling Date	Rep	Lead	Manganese	Nickel	Selenium	Silver	Zinc	Mercury
ES-01	10/06/86		26.6	560	29.9	U0.25	0.039	108	0.026
ES-02	10/06/86		6.2	561	34.0	U0.25	0.038	57.6	0.043
ES-03	10/06/86		8.3	527	36.3	U0.25	0.070	68.2	0.049
EW-01	10/07/86		42.3	396	50.8	0.47	0.50	256	0.205
EW-04	09/30/86		73.7	282	33.2	0.46	0.43	235	0.365
EW-07	09/30/86	1	87.9	442	47.7	U0.20	0.71	196	0.305
EW-07	09/30/86	2	90.8	513	62.7	U0.20	0.73	207	0.345
EW-07	09/30/86	3	86.3	459	54.6	U0.20	0.72	210	0.310
EW-07	09/30/86	Mean	88.3	471	55.0	U0.20	0.72	204	0.320
EW-10	10/01/86		58.6	434	52.7	0.46	0.78	198	0.466
EW-11	09/30/86		26.4	478	50.9	0.33	0.33	145	0.220
EW-12	10/01/86		10.0	380	24.1	0.33	0.030	56.2	0.062
EW-13	10/01/86		58.6	310	32.4	U0.20	0.21	272	0.273
EW-14	10/01/86		517	1050	44.0	0.47	1.03	5910	0.776
EW-15	10/01/86		38.2	495	56.2	U0.20	0.12	95.3	0.147
NG-01	10/02/86		9.5	461	33.3	0.58	0.063	49.7	0.006
NG-02	10/02/86		8.2	414	42.4	U0.25	0.029	50.7	0.014
NG-03	10/02/86		6.4	695	35.3	U0.25	0.026	41.5	0.026
NG-04	10/02/86		8.3	394	31.1	U0.25	0.033	38.0	0.016
NG-05	10/02/86		9.5	386	36.6	U0.25	0.036	44.1	0.022
NG-06	10/08/86		7.3	475	50.4	U0.25	0.041	51.5	0.018
NG-07	10/02/86		4.4	520	45.2	U0.25	0.023	47.6	0.014
NG-08	10/02/86		9.4	777	65.8	U0.25	0.079	54.8	0.027
NG-09	10/03/86		19.6	402	42.8	U0.25	0.10	76.8	0.073
NG-10	10/03/86		18.4	369	39.3	U0.25	0.039	52.1	0.024
NG-11	10/03/86	1	13.7	428	33.2	U0.25	0.051	53.4	0.022
NG-11	10/03/86	2	NR	NR	NR	U0.25	0.046	NR	0.024
NG-11	10/03/86	Mean	13.7	428	33.2	U0.25	0.048	53.4	0.023
NG-12	10/15/86		9.7	500	45.8	U0.25	0.028	55.3	0.014
NG-13	10/15/86		7.0	431	39.4	U0.25	0.034	55.2	0.018
NG-14	10/15/86		11.6	622	44.9	U0.25	0.024	95.2	0.016
NG-15	10/15/86		9.5	502	41.0	U0.25	0.028	57.9	0.012
OG-01	10/09/86		18.8	451	41.9	U0.20	0.20	83.9	0.128
OG-02	10/09/86		18.6	447	40.4	0.40	0.20	72.9	0.150
OG-03	10/09/86		17.7	416	32.2	0.41	0.17	64.7	0.119
OG-04	10/09/86		16.0	429	34.8	0.40	0.20	72.9	0.122
OG-05	10/09/86		16.5	419	30.9	0.34	0.21	64.8	0.115
OG-06	10/09/86		18.0	506	44.1	0.41	0.30	83.0	0.156
OG-07	10/09/86		12.2	464	33.7	0.40	0.086	58.2	0.078
PS-02	10/13/86	1	10.9	570	59.3	0.34	0.027	51.5	0.058
PS-02	10/13/86	2	NR	NR	NR	0.27	0.027	NR	0.054
PS-02	10/13/86	Mean	10.9	570	59.3	0.30	0.027	51.5	0.056
PS-03	10/13/86		7.9	407	65.0	0.27	0.020	50.7	0.035
PS-04	10/10/86		5.6	428	41.3	0.40	0.027	39.1	0.029
SD-01	10/09/86		8.6	631	31.5	U0.25	0.013	51.9	0.014
SD-02	10/07/86		11.3	403	28.6	U0.25	0.065	54.5	0.031

TABLE B-2. CONCENTRATIONS (UG/KG DRY WEIGHT) OF VOLATILE ORGANIC COMPOUNDS
IN EVERETT HARBOR SEDIMENTS: HALOGENATED ALKANES I

Station	Sampling Date	Rep	chloro- methane	bromo- methane	chloro- ethane	1,1- di- chloro- ethane	chloro- form	1,2- di- chloro- ethane
ES-02	10/06/86		U6	U6	U6	U3	U3	U3
EW-01	10/07/86	1	U27	U27	U27	U13	U13	U13
EW-01	10/07/86	2	U33	U33	U33	U16	U16	U16
EW-01	10/07/86	Mean	U27	U27	U27	U13	U13	U13
EW-02	09/30/86		U45	U45	U45	U23	U23	U23
EW-03	09/30/86		U35	U35	U35	U18	U18	U18
EW-04	09/30/86		U33	U33	U33	U16	U16	U16
EW-05	09/30/86		U41	U41	U41	U21	U21	U21
EW-06	09/30/86		U38	U38	U38	U19	U19	U19
EW-07	09/30/86	1	U27	U27	U27	U13	U13	U13
EW-07	09/30/86	2	U15	U15	U15	U8	U8	U8
EW-07	09/30/86	Mean	U15	U15	U15	U8	U8	U8
EW-08	09/30/86		U31	U31	U31	U16	U16	U16
EW-09	09/30/86		U39	U39	U39	U19	U19	U19
NG-05	10/02/86		U7	U7	U7	U3	U3	U3
NG-06	10/08/86		U7	U7	U7	U4	U4	U4
OG-03	10/09/86		U10	U10	U10	U5	U5	U5
OG-07	10/09/86		U8	U8	U8	U4	U4	U4
PS-02	10/13/86		U6	U6	U6	U3	U3	U3
PS-03	10/13/86		U6	U6	U6	U3	U3	U3
PS-04	10/10/86		U6	U6	U6	U3	U3	U3
SR-02	10/06/86		U7	U7	U7	U4	U4	U4
SS-03	10/06/86	1	U9	U9	U9	U5	U5	U5
SS-03	10/06/86	2	U9	U9	U9	U5	U5	U5
SS-03	10/06/86	Mean	U9	U9	U9	U5	U5	U5

TABLE B-3. (Continued)

Station	Sampling Date	Rep	bromo- form	1,1,2,2,- tetra- chloro- ethane
ES-02	10/06/86		U3	U3
EW-01	10/07/86	1	U13	U13
EW-01	10/07/86	2	U16	U16
EW-01	10/07/86	Mean	U13	U13
EW-02	09/30/86		U23	U23
EW-03	09/30/86		U18	U18
EW-04	09/30/86		U16	U16
EW-05	09/30/86		U21	U21
EW-06	09/30/86		U19	U19
EW-07	09/30/86	1	U13	U13
EW-07	09/30/86	2	U8	U8
EW-07	09/30/86	Mean	U8	U8
EW-08	09/30/86		U16	U16
EW-09	09/30/86		U19	U19
NG-05	10/02/86		U3	U3
NG-06	10/08/86		U4	U4
OG-03	10/09/86		U5	U5
OG-07	10/09/86		U4	U4
PS-02	10/13/86		U3	U3
PS-03	10/13/86		U3	U3
PS-04	10/10/86		U3	U3
SR-02	10/06/86		U4	U4
SS-03	10/06/86	1	U5	U5
SS-03	10/06/86	2	U5	U5
SS-03	10/06/86	Mean	U5	U5

TABLE B-4. (Continued)

Station	Sampling Date	Rep	tri-chloro-ethene	tetra-chloro-ethene
ES-02	10/06/86		U3	U3
EW-01	10/07/86	1	U13	U13
EW-01	10/07/86	2	U16	U16
EW-01	10/07/86	Mean	U13	U13
EW-02	09/30/86		U23	U23
EW-03	09/30/86		U18	U18
EW-04	09/30/86		U16	U16
EW-05	09/30/86		U21	U21
EW-06	09/30/86		U19	U19
EW-07	09/30/86	1	U13	U13
EW-07	09/30/86	2	U8	U8
EW-07	09/30/86	Mean	U8	U8
EW-08	09/30/86		U16	U16
EW-09	09/30/86		U19	U19
NG-05	10/02/86		U3	U3
NG-06	10/08/86		U4	U4
OG-03	10/09/86		U5	U5
OG-07	10/09/86		U4	U4
PS-02	10/13/86		U3	U3
PS-03	10/13/86		U3	U3
PS-04	10/10/86		U3	U3
SR-02	10/06/86		U4	U4
SS-03	10/06/86	1	U5	U5
SS-03	10/06/86	2	U5	U5
SS-03	10/06/86	Mean	U5	U5

TABLE B-6. CONCENTRATIONS (UG/KG DRY WEIGHT) OF VOLATILE ORGANIC COMPOUNDS
IN EVERETT HARBOR SEDIMENTS: CHLORINATED AROMATIC HYDROCARBONS

Station	Date	Rep	chloro- benzene
ES-02	10/06/86		U3
EW-01	10/07/86	1	U13
EW-01	10/07/86	2	U16
EW-01	10/07/86	Mean	U13
EW-02	09/30/86		U23
EW-03	09/30/86		U18
EW-04	09/30/86		U16
EW-05	09/30/86		U21
EW-06	09/30/86		U19
EW-07	09/30/86	1	U13
EW-07	09/30/86	2	U8
EW-07	09/30/86	Mean	U8
EW-08	09/30/86		U16
EW-09	09/30/86		U19
NG-05	10/02/86		U3
NG-06	10/08/86		U4
OG-03	10/09/86		U5
OG-07	10/09/86		U4
PS-02	10/13/86		U3
PS-03	10/13/86		U3
PS-04	10/10/86		U3
SR-02	10/06/86		U4
SS-03	10/06/86	1	U5
SS-03	10/06/86	2	U5
SS-03	10/06/86	Mean	U5

TABLE B-8. CONCENTRATIONS (UG/KG DRY WEIGHT) OF VOLATILE ORGANIC COMPOUNDS
IN EVERETT HARBOR SEDIMENTS: KETONES

Station	Sampling Date	Rep	acetone	2-butanone	2-hexanone	4-methyl-2-pentanone
ES-02	10/06/86		U6	U6	U6	U6
EW-01	10/07/86	1	U27	U27	U27	U27
EW-01	10/07/86	2	U33	U33	U33	U33
EW-01	10/07/86	Mean	U27	U27	U27	U27
EW-02	09/30/86		U45	U45	U45	U45
EW-03	09/30/86		U35	U35	U35	U35
EW-04	09/30/86		U33	U33	U33	U33
EW-05	09/30/86		230	U41	U41	U41
EW-06	09/30/86		140	U38	U38	U38
EW-07	09/30/86	1	150	U27	U27	U27
EW-07	09/30/86	2	U15	U15	U15	U15
EW-07	09/30/86	Mean	L82	U15	U15	U15
EW-08	09/30/86		U31	U31	U31	U31
EW-09	09/30/86		120	U39	U39	U39
NG-05	10/02/86		U7	U7	U7	U7
NG-06	10/08/86		U7	U7	U7	U7
OG-03	10/09/86		U10	U10	U10	U10
OG-07	10/09/86		U8	U8	U8	U8
PS-02	10/13/86		U6	U6	U6	U6
PS-03	10/13/86		U6	U6	U6	U6
PS-04	10/10/86		U6	U6	U6	U6
SR-02	10/06/86		U7	U7	U7	U7
SS-03	10/06/86	1	U9	U9	U9	U9
SS-03	10/06/86	2	U9	U9	U9	U9
SS-03	10/06/86	Mean	U9	U9	U9	U9

TABLE B-10. CONCENTRATIONS (UG/KG DRY WEIGHT) OF EXTRACTABLE ORGANIC COMPOUNDS
IN EVERETT HARBOR SEDIMENTS: PHENOL AND ALKYL-SUBSTITUTED PHENOLS

Station	Date	Rep	phenol	2- methyl- phenol	4- methyl- phenol	2,4-di- methyl- phenol
ES-01	10/06/86		B25	U10	140	U10
ES-02	10/06/86		B25	U10	47	U10
ES-03	10/06/86		Z1200	U20	1400	U10
EW-01	10/07/86		Z1600	U50	6000	U20
EW-04	09/30/86		2100	1200	35000	520
EW-07	09/30/86	1	1100	X580	X130000	140
EW-07	09/30/86	2	730	U200	24000	U50
EW-07	09/30/86	3	1300	U200	X140000	120
EW-07	09/30/86	Mean	1000	LX330	X98000	L100
EW-10	10/01/86		2900	U200	X26000	U50
EW-11	09/30/86		1200	U50	7300	U50
EW-12	10/01/86		200	U200	X3600	U50
EW-13	10/01/86		1200	U50	25000	U20
EW-14	10/01/86		1300	U50	15000	U20
EW-15	10/01/86		470	U200	7200	U50
NG-01	10/02/86		150	U50	X500	U20
NG-02	10/02/86		88	U100	X550	U50
NG-03	10/02/86		94	U200	X970	U50
NG-04	10/02/86		X290	U200	X2400	U50
NG-05	10/02/86		310	U50	X9700	U20
NG-06	10/08/86		Z250	U50	320	U50
NG-07	10/02/86		110	U100	X440	U50
NG-08	10/02/86		240	U100	X930	U50
NG-09	10/03/86		2100	U100	2400	U50
NG-10	10/03/86		1000	U10	1800	U20
NG-11	10/03/86		1100	U100	1600	U50
NG-12	10/15/86		B17	U20	U20	U10
NG-13	10/15/86		Z800	U20	320	U10
NG-14	10/15/86		Z1200	U20	2100	U10
NG-15	10/15/86		Z710	U20	760	U10
OG-01	10/09/86		Z450	U50	1300	U50
OG-02	10/09/86		Z410	6	1000	U50
OG-03	10/09/86		Z410	U10	1100	U20
OG-04	10/09/86		Z430	U50	1200	U50
OG-05	10/09/86		Z310	U10	910	U10
OG-06	10/09/86		Z410	U10	720	U50
OG-07	10/09/86		Z250	U10	350	U10
PS-02	10/13/86		Z200	U50	290	U10
PS-03	10/13/86		Z110	U50	84	U10
PS-04	10/10/86		Z140	U20	140	U10
SD-01	10/09/86		B22	U10	X3	U10
SD-02	10/07/86		Z99	U20	27	U10
SD-03	10/02/86		130	U100	X760	U50
SR-01	10/06/86		67	U50	360	U50
SR-02	10/06/86		18	U50	U50	U50

TABLE B-11. CONCENTRATIONS (UG/KG DRY WEIGHT) OF EXTRACTABLE ORGANIC COMPOUNDS IN EVERETT HARBOR SEDIMENTS: SUBSTITUTED PHENOLS

Station	Sampling Date	Rep	2-chloro-phenol	2,4-di-chloro-phenol	4-chloro-3-methyl-phenol	2,4,6-tri-chloro-phenol	2,4,5-tri-chloro-phenol	penta-chloro-phenol
ES-01	10/06/86		U200	U10	U10	U20	U20	U500
ES-02	10/06/86		U20	U50	U50	U50	U50	U1000
ES-03	10/06/86		U100	U20	U10	U500	U500	U1000
EW-01	10/07/86		U20	U20	U20	U100	U100	U200
EW-04	09/30/86		U100	U100	U50	U200	U200	U200
EW-07	09/30/86	1	U20	U20	U50	U50	U50	U20
EW-07	09/30/86	2	U20	U20	U50	U50	U50	U20
EW-07	09/30/86	3	U100	U100	U50	U200	U200	U200
EW-07	09/30/86	Mean	U20	U20	U50	U50	U50	U20
EW-10	10/01/86		U20	U20	U50	U20	U20	U20
EW-11	09/30/86		U20	U20	U50	U50	U50	U50
EW-12	10/01/86		U300	U500	U50	U200	U200	U200
EW-13	10/01/86		U100	U250	U20	U50	U50	U500
EW-14	10/01/86		U20	U20	U20	U50	U50	U50
EW-15	10/01/86		U50	U20	U50	U50	U50	U50
NG-01	10/02/86		U100	U250	U20	U50	U200	U500
NG-02	10/02/86		U100	U500	U50	U200	U200	U200
NG-03	10/02/86		U150	U100	U50	U200	U200	U200
NG-04	10/02/86		U200	U200	U50	U200	U200	U200
NG-05	10/02/86		U100	U250	U20	U50	U50	U100
NG-06	10/08/86		U20	U50	U50	U100	U100	U50
NG-07	10/02/86		U50	U20	U50	U50	U50	U50
NG-08	10/02/86		U50	U20	U50	U50	U50	U50
NG-09	10/03/86		U20	U50	U50	U50	U50	U50
NG-10	10/03/86		U20	U10	U20	U50	U50	U50
NG-11	10/03/86		U20	U20	U50	U20	U20	U50
NG-12	10/15/86		U10	U20	U50	U50	U50	U1000
NG-13	10/15/86		U10	U10	U10	U50	U50	U1000
NG-14	10/15/86		U10	U10	U50	U50	U50	U1000
NG-15	10/15/86		U10	U20	U50	U100	U100	U1000
OG-01	10/09/86		U20	U20	U50	U20	U20	U50
OG-02	10/09/86		U10	U10	U50	U10	U10	U20
OG-03	10/09/86		U20	U20	U20	U50	U50	U50
OG-04	10/09/86		U20	U20	U50	U50	U50	U200
OG-05	10/09/86		U10	U10	U10	U10	U10	U50
OG-06	10/09/86		U20	U50	U10	U100	U100	U1000
OG-07	10/09/86		U10	U10	U50	U20	U20	U100
PS-02	10/13/86		U500	U50	U50	U100	U100	U1000
PS-03	10/13/86		U10	U10	U50	U50	U50	U500
PS-04	10/10/86		U10	U10	U10	U50	U50	U100
SD-01	10/09/86		U1000	U10	U50	U20	U20	U20
SD-02	10/07/86		U100	U100	U10	U200	U200	U500
SD-03	10/02/86		U20	U50	U50	U50	U50	U50
SR-01	10/06/86		U20	U20	U50	U20	U20	U100

TABLE B-11. (Continued)

Station	Sampling Date	Rep	2-nitrophenol	2,4-dinitrophenol	4,6-dinitro-2-methylphenol	4-nitrophenol
ES-01	10/06/86		U50	U50	U100	U50
ES-02	10/06/86		U50	U50	U100	U50
ES-03	10/06/86		U50	U50	U100	U50
EW-01	10/07/86		U50	U50	U100	U50
EW-04	09/30/86		U50	U50	U100	U50
EW-07	09/30/86	1	U50	U50	U100	U50
EW-07	09/30/86	2	U50	U50	U100	U50
EW-07	09/30/86	3	U50	U50	U100	U50
EW-07	09/30/86	Mean	U50	U50	U100	U50
EW-10	10/01/86		U50	U50	U100	U50
EW-11	09/30/86		U50	U50	U100	U50
EW-12	10/01/86		U50	U50	U100	U50
EW-13	10/01/86		U50	U50	U100	U50
EW-14	10/01/86		U50	U50	U100	U50
EW-15	10/01/86		U50	U50	U100	U50
NG-01	10/02/86		U50	U50	U100	U50
NG-02	10/02/86		U50	U50	U100	U50
NG-03	10/02/86		U50	U50	U100	U50
NG-04	10/02/86		U50	U50	U100	U50
NG-05	10/02/86		U50	U50	U100	U50
NG-06	10/08/86		U50	U50	U100	U50
NG-07	10/02/86		U50	U50	U100	U50
NG-08	10/02/86		U50	U50	U100	U50
NG-09	10/03/86		U50	U50	U100	U50
NG-10	10/03/86		U50	U50	U100	U50
NG-11	10/03/86		U50	U50	U100	U50
NG-12	10/15/86		U50	U50	U100	U50
NG-13	10/15/86		U50	U50	U100	U50
NG-14	10/15/86		U50	U50	U100	U50
NG-15	10/15/86		U50	U50	U100	U50
OG-01	10/09/86		U50	U50	U100	U50
OG-02	10/09/86		U50	U50	U100	U50
OG-03	10/09/86		U50	U50	U100	U50
OG-04	10/09/86		U50	U50	U100	U50
OG-05	10/09/86		U50	U50	U100	U50
OG-06	10/09/86		U50	U50	U100	U50
OG-07	10/09/86		U50	U50	U100	U50
PS-02	10/13/86		U50	U50	U100	U50
PS-03	10/13/86		U50	U50	U100	U50
PS-04	10/10/86		U50	U50	U100	U50
SD-01	10/09/86		U50	U50	U100	U50
SD-02	10/07/86		U50	U50	U100	U50
SD-03	10/02/86		U50	U50	U100	U50
SR-01	10/06/86		U50	U50	U100	U50
SR-02	10/06/86		U50	U50	U100	U50

TABLE B-12. CONCENTRATIONS (UG/KG DRY WEIGHT) OF EXTRACTABLE ORGANIC COMPOUNDS IN EVERETT HARBOR SEDIMENTS: LOW MOLECULAR WEIGHT AROMATIC HYDROCARBONS

Station	Sampling Date	Rep	naphthalene	acenaphthene	fluorene	phenanthrene	anthracene	
ES-01	10/06/86		13	3	6	U10	16	9
ES-02	10/06/86		B10	6	3	U10	14	6
ES-03	10/06/86		Z64	15	9	15	58	15
EW-01	10/07/86		Z560	100	190	280	440	210
EW-04	09/30/86		10000	620	3300	2300	8100	690
EW-07	09/30/86	1	X19000	290	1600	1200	1600	840
EW-07	09/30/86	2	7900	220	1700	1400	1300	1500
EW-07	09/30/86	3	X23000	420	2100	1600	2100	1300
EW-07	09/30/86	Mean	X17000	310	1800	1400	1700	1200
EW-10	10/01/86		X2200	320	320	440	1100	820
EW-11	09/30/86		1000	480	150	150	360	210
EW-12	10/01/86		X970	30	100	73	170	91
EW-13	10/01/86		12000	370	3400	2300	2700	3400
EW-14	10/01/86		7000	800	5200	4300	4800	6100
EW-15	10/01/86		2500	160	740	420	830	280
NG-01	10/02/86		X140	4	8	U10	27	11
NG-02	10/02/86		X67	U10	7	U10	13	4
NG-03	10/02/86		X93	U10	U10	U10	11	3
NG-04	10/02/86		X160	6	U10	U10	23	8
NG-05	10/02/86		X240	6	9	U10	25	9
NG-06	10/08/86		Z23	8	8	U10	53	26
NG-07	10/02/86		X52	8	9	6	23	16
NG-08	10/02/86		X190	15	11	U10	52	32
NG-09	10/03/86		1000	310	510	510	Z890	910
NG-10	10/03/86		93	31	110	140	Z440	340
NG-11	10/03/86		190	96	560	610	Z1200	870
NG-12	10/15/86		B3	U10	U10	U10	11	3
NG-13	10/15/86		B6	U10	U10	U10	10	4
NG-14	10/15/86		U10	U10	16	37	360	29
NG-15	10/15/86		4	U10	U10	U10	11	U10
OG-01	10/09/86		Z360	91	59	67	200	61
OG-02	10/09/86		Z380	85	62	62	200	100
OG-03	10/09/86		Z410	95	45	45	170	55
OG-04	10/09/86		Z350	81	41	59	170	97
OG-05	10/09/86		Z250	56	23	39	91	35
OG-06	10/09/86		Z290	36	34	45	150	45
OG-07	10/09/86		Z340	83	49	49	200	78
PS-02	10/13/86		B3	U10	U10	U10	5	1
PS-03	10/13/86		B3	U10	U10	U10	7	2
PS-04	10/10/86		U10	1	U10	U10	4	1
SD-01	10/09/86		XB3	U10	U10	U10	3	U10
SD-02	10/07/86		Z92	17	7	U10	40	19
SD-03	10/02/86		X250	33	19	U10	56	30
SR-01	10/06/86		11	U10	2	U10	B10	5

TABLE B-13. CONCENTRATIONS (UG/KG DRY WEIGHT) OF EXTRACTABLE ORGANIC COMPOUNDS IN EVERETT HARBOR SEDIMENTS: HIGH MOLECULAR WEIGHT AROMATIC HYDROCARBONS

Station	Sampling Date	Rep	fluor-anthene	pyrene	benzo-(a)-anthracene	chrysene	benzo-(a)-pyrene	indeno-(1,2,3-cd)-pyrene
ES-01	10/06/86		37	32	16	21	14	10
ES-02	10/06/86		35	29	13	19	13	11
ES-03	10/06/86		75	62	23	32	17	8
EW-01	10/07/86		770	610	160	280	140	70
EW-04	09/30/86		2300	2300	810	1200	420	300
EW-07	09/30/86	1	1600	1300	450	740	180	89
EW-07	09/30/86	2	1600	1500	410	400	190	98
EW-07	09/30/86	3	1900	1800	470	1100	320	150
EW-07	09/30/86	Mean	1700	1500	440	750	230	110
EW-10	10/01/86		1500	1300	620	1700	290	140
EW-11	09/30/86		700	450	18	210	82	67
EW-12	10/01/86		260	220	89	130	75	41
EW-13	10/01/86		3700	3000	960	940	480	300
EW-14	10/01/86		3400	5500	3200	3200	1700	730
EW-15	10/01/86		910	810	210	300	190	120
NG-01	10/02/86		36	34	11	15	9	5
NG-02	10/02/86		14	16	5	7	4	3
NG-03	10/02/86		11	13	4	6	4	U10
NG-04	10/02/86		40	45	11	13	7	4
NG-05	10/02/86		40	40	11	16	12	8
NG-06	10/08/86		76	89	35	53	36	19
NG-07	10/02/86		83	80	42	59	42	25
NG-08	10/02/86		87	82	34	63	40	25
NG-09	10/03/86		1200	Z1300	980	1300	1000	580
NG-10	10/03/86		610	Z500	310	490	200	98
NG-11	10/03/86		1600	Z1400	1100	1100	820	500
NG-12	10/15/86		16	16	7	8	6	4
NG-13	10/15/86		U10	14	7	18	5	U10
NG-14	10/15/86		340	Z230	42	81	26	18
NG-15	10/15/86		16	B10	4	7	4	U10
OG-01	10/09/86		200	200	37	61	35	20
OG-02	10/09/86		200	Z170	100	130	85	38
OG-03	10/09/86		170	170	42	56	40	24
OG-04	10/09/86		190	190	47	71	45	28
OG-05	10/09/86		110	100	25	39	23	12
OG-06	10/09/86		130	120	30	49	28	21
OG-07	10/09/86		180	230	45	71	45	29
PS-02	10/13/86		5	7	3	4	1	U10
PS-03	10/13/86		7	6	3	5	3	3
PS-04	10/10/86		5	5	2	4	1	1
SD-01	10/09/86		3	3	1	1	U10	U10
SD-02	10/07/86		54	56	14	19	13	9
SD-03	10/02/86		67	63	21	31	22	11
SR-01	10/06/86		10	B10	4	6	4	U10

TABLE B-13. (Continued)

Station	Sampling Date	Rep	di-benzo-(a,h)-anthracene	benzo-(g,h,i)perylene	benzo-(b+k)-fluoranthenes
ES-01	10/06/86		7	11	32
ES-02	10/06/86		7	14	24
ES-03	10/06/86		U10	15	40
EW-01	10/07/86		30	87	320
EW-04	09/30/86		160	210	1100
EW-07	09/30/86	1	34	84	530
EW-07	09/30/86	2	37	84	390
EW-07	09/30/86	3	92	140	760
EW-07	09/30/86	Mean	54	100	560
EW-10	10/01/86		44	120	820
EW-11	09/30/86		39	82	250
EW-12	10/01/86		22	36	170
EW-13	10/01/86		74	270	1100
EW-14	10/01/86		270	550	4100
EW-15	10/01/86		57	96	340
NG-01	10/02/86		U10	5	19
NG-02	10/02/86		U10	3	10
NG-03	10/02/86		U10	U10	8
NG-04	10/02/86		U10	3	19
NG-05	10/02/86		U10	7	21
NG-06	10/08/86		6	19	72
NG-07	10/02/86		6	21	110
NG-08	10/02/86		7	23	82
NG-09	10/03/86		180	440	2000
NG-10	10/03/86		36	63	460
NG-11	10/03/86		140	400	1600
NG-12	10/15/86		U10	5	11
NG-13	10/15/86		U10	3	11
NG-14	10/15/86		10	19	70
NG-15	10/15/86		U10	4	10
OG-01	10/09/86		7	28	74
OG-02	10/09/86		14	38	140
OG-03	10/09/86		U10	29	65
OG-04	10/09/86		8	33	79
OG-05	10/09/86		4	14	40
OG-06	10/09/86		U10	23	55
OG-07	10/09/86		11	37	78
PS-02	10/13/86		U10	3	5
PS-03	10/13/86		2	4	U10
PS-04	10/10/86		U10	3	5
SD-01	10/09/86		U10	U10	U10
SD-02	10/07/86		U10	12	26
SD-03	10/02/86		U10	13	38
SR-01	10/06/86		U10	3	U10

TABLE B-14. CONCENTRATIONS (UG/KG DRY WEIGHT) OF EXTRACTABLE ORGANIC COMPOUNDS IN EVERETT HARBOR SEDIMENTS: CHLORINATED AROMATIC HYDROCARBONS

Station	Sampling Date	Rep	1,3-dichloro-benzene	1,4-dichloro-benzene	1,2-dichloro-benzene	1,2,4-tri-chloro-benzene	2-chloro-naphtha-lene	hexa-chloro-benzene
ES-01	10/06/86		U10	3	U10	U10	U10	U10
ES-02	10/06/86		U10	U10	U10	U10	U10	U10
ES-03	10/06/86		U10	U10	U10	U10	U10	U10
EW-01	10/07/86		U10	12	U10	U10	U10	U20
EW-04	09/30/86		U50	U50	96	U20	U50	U50
EW-07	09/30/86	1	U200	U100	U200	U200	U50	U50
EW-07	09/30/86	2	U100	U100	U100	U50	U50	U50
EW-07	09/30/86	3	U200	U200	U200	U200	U50	U20
EW-07	09/30/86	Mean	U100	U100	U100	U50	U50	U20
EW-10	10/01/86		U100	U100	U100	U50	U50	U50
EW-11	09/30/86		U50	U50	U50	U20	U50	U50
EW-12	10/01/86		U500	U500	U500	U200	U50	U50
EW-13	10/01/86		U150	U150	U150	U50	U10	U20
EW-14	10/01/86		U150	U150	U150	U50	U10	U20
EW-15	10/01/86		U100	U100	U100	U200	U50	U50
NG-01	10/02/86		U150	U150	U150	U50	U10	U50
NG-02	10/02/86		U200	U200	U200	U200	U50	U50
NG-03	10/02/86		U200	U200	U200	U200	U50	U50
NG-04	10/02/86		U200	U200	U200	U200	U50	U50
NG-05	10/02/86		U150	U150	U150	U50	U10	U20
NG-06	10/08/86		U10	U10	U10	U10	U50	U50
NG-07	10/02/86		U100	U100	U100	U50	U50	U50
NG-08	10/02/86		U100	U100	U100	U20	U50	U50
NG-09	10/03/86		U10	20	9	U10	U50	U50
NG-10	10/03/86		U10	11	13	U10	U10	U10
NG-11	10/03/86		U10	U10	U10	U10	U50	U50
NG-12	10/15/86		U10	U10	U10	U10	U50	U10
NG-13	10/15/86		U10	U10	U10	U10	U50	U10
NG-14	10/15/86		U10	U10	U10	U10	U50	U20
NG-15	10/15/86		U10	U10	U10	U10	U50	U10
OG-01	10/09/86		U10	5	U10	U10	U50	U50
OG-02	10/09/86		U10	25	7	U10	U50	U10
OG-03	10/09/86		U10	5	U10	U10	U10	U10
OG-04	10/09/86		U10	6	U10	U10	U50	U50
OG-05	10/09/86		U10	3	U10	U10	U50	U10
OG-06	10/09/86		U10	12	U10	U10	U50	U10
OG-07	10/09/86		U10	6	U10	U10	U10	U10
PS-02	10/13/86		U10	U10	U10	U10	U50	U10
PS-03	10/13/86		U10	U10	U10	U10	U50	U10
PS-04	10/10/86		U10	U10	U10	U10	U50	U10
SD-01	10/09/86		U10	U10	U10	U10	U50	U10
SD-02	10/07/86		U10	U10	U10	U10	U10	U10
SD-03	10/02/86		U50	U50	U50	U20	U50	U50
SR-01	10/06/86		U10	2	U10	U10	U50	U50

TABLE B-15. CONCENTRATIONS (UG/KG DRY WEIGHT) OF EXTRACTABLE ORGANIC COMPOUNDS
IN EVERETT HARBOR SEDIMENTS: CHLORINATED ALIPHATIC HYDROCARBONS

Station	Sampling Date	Rep	hexa-chloro-ethane	hexa-chloro-butadiene	hexa-chloro-cyclopentadiene
ES-01	10/06/86		U20	U20	U200
ES-02	10/06/86		U20	U20	U200
ES-03	10/06/86		U20	U10	U200
EW-01	10/07/86		U20	U10	U200
EW-04	09/30/86		U20	U50	U200
EW-07	09/30/86	1	U20	U200	U200
EW-07	09/30/86	2	U20	U100	U200
EW-07	09/30/86	3	U20	U200	U200
EW-07	09/30/86	Mean	U20	U100	U200
EW-10	10/01/86		U20	U100	U200
EW-11	09/30/86		U20	U50	U200
EW-12	10/01/86		U20	U200	U200
EW-13	10/01/86		U20	U300	U200
EW-14	10/01/86		U20	U200	U200
EW-15	10/01/86		U20	U200	U200
NG-01	10/02/86		U20	U300	U200
NG-02	10/02/86		U20	U200	U200
NG-03	10/02/86		U20	U200	U200
NG-04	10/02/86		U20	U200	U200
NG-05	10/02/86		U20	U200	U200
NG-06	10/08/86		U20	U10	U200
NG-07	10/02/86		U20	U100	U200
NG-08	10/02/86		U20	U100	U200
NG-09	10/03/86		U20	U10	U200
NG-10	10/03/86		U20	U10	U200
NG-11	10/03/86		U20	U10	U200
NG-12	10/15/86		U20	U10	U200
NG-13	10/15/86		U20	U10	U200
NG-14	10/15/86		U20	U20	U200
NG-15	10/15/86		U20	U20	U200
OG-01	10/09/86		U20	U10	U200
OG-02	10/09/86		U20	U10	U200
OG-03	10/09/86		U20	U10	U200
OG-04	10/09/86		U20	U10	U200
OG-05	10/09/86		U20	U10	U200
OG-06	10/09/86		U20	U10	U200
OG-07	10/09/86		U20	U10	U200
PS-02	10/13/86		U20	U10	U200
PS-03	10/13/86		U20	U10	U200
PS-04	10/10/86		U20	U10	U200
SD-01	10/09/86		U20	U10	U200
SD-02	10/07/86		U20	U10	U200
SD-03	10/02/86		U20	U50	U200

TABLE B-16. CONCENTRATIONS (UG/KG DRY WEIGHT) OF EXTRACTABLE ORGANIC COMPOUNDS IN EVERETT HARBOR SEDIMENTS: HALOGENATED ETHERS

Station	Sampling Date	Rep	bis(2-chloro-ethyl) ether	bis(2-chloro-isopropyl) ether	bis(2-chloro-ethoxy) methane	4-chloro-phenyl-phenyl-ether	4-bromo-phenyl-phenyl-ether
ES-01	10/06/86		U20	U10	U10	U10	U10
ES-02	10/06/86		U20	U10	U10	U10	U10
ES-03	10/06/86		U20	U10	U10	U10	U10
EW-01	10/07/86		U20	U10	U10	U10	U10
EW-04	09/30/86		U20	U10	U10	U10	U10
EW-07	09/30/86	1	U20	U10	U10	U10	U10
EW-07	09/30/86	2	U20	U10	U10	U10	U10
EW-07	09/30/86	3	U20	U10	U10	U10	U10
EW-07	09/30/86	Mean	U20	U10	U10	U10	U10
EW-10	10/01/86		U20	U10	U10	U10	U10
EW-11	09/30/86		U20	U10	U10	U10	U10
EW-12	10/01/86		U20	U10	U10	U10	U10
EW-13	10/01/86		U20	U10	U10	U10	U10
EW-14	10/01/86		U20	U10	U10	U10	U10
EW-15	10/01/86		U20	U10	U10	U10	U10
NG-01	10/02/86		U20	U10	U10	U10	U10
NG-02	10/02/86		U20	U10	U10	U10	U10
NG-03	10/02/86		U20	U10	U10	U10	U10
NG-04	10/02/86		U20	U10	U10	U10	U10
NG-05	10/02/86		U20	U10	U10	U10	U10
NG-06	10/08/86		U20	U10	U10	U10	U10
NG-07	10/02/86		U20	U10	U10	U10	U10
NG-08	10/02/86		U20	U10	U10	U10	U10
NG-09	10/03/86		U20	U10	U10	U10	U10
NG-10	10/03/86		U20	U10	U10	U10	U10
NG-11	10/03/86		U20	U10	U10	U10	U10
NG-12	10/15/86		U20	U10	U10	U10	U10
NG-13	10/15/86		U20	U10	U10	U10	U10
NG-14	10/15/86		U20	U10	U10	U10	U10
NG-15	10/15/86		U20	U10	U10	U10	U10
OG-01	10/09/86		U20	U10	U10	U10	U10
OG-02	10/09/86		U20	U10	U10	U10	U10
OG-03	10/09/86		U20	U10	U10	U10	U10
OG-04	10/09/86		U20	U10	U10	U10	U10
OG-05	10/09/86		U20	U10	U10	U10	U10
OG-06	10/09/86		U20	U10	U10	U10	U10
OG-07	10/09/86		U20	U10	U10	U10	U10
PS-02	10/13/86		U20	U10	U10	U10	U10
PS-03	10/13/86		U20	U10	U10	U10	U10
PS-04	10/10/86		U20	U10	U10	U10	U10
SD-01	10/09/86		U20	U10	U10	U10	U10
SD-02	10/07/86		U20	U10	U10	U10	U10
SD-03	10/02/86		U20	U10	U10	U10	U10
SR-01	10/06/86		U20	U10	U10	U10	U10

TABLE B-17. CONCENTRATIONS (UG/KG DRY WEIGHT) OF EXTRACTABLE ORGANIC COMPOUNDS IN EVERETT HARBOR SEDIMENTS: PHTHALATES

Station	Sampling Date	Rep	di-methyl-phthalate	di-ethyl-phthalate	di-n-butyl-phthalate	butyl-benzyl-phthalate	bis-(2-ethyl-hexyl)-phthalate	di-n-octyl-phthalate
ES-01	10/06/86		U10	U10	B10	10	U10	U10
ES-02	10/06/86		U10	U10	B10	U10	Z17	U10
ES-03	10/06/86		U10	U10	Z54	U10	Z49	U10
EW-01	10/07/86		U20	U10	Z180	70	Z190	U10
EW-04	09/30/86		U10	U10	U10	U10	650	U10
EW-07	09/30/86	1	U10	U10	290	U10	160	U10
EW-07	09/30/86	2	U10	U10	97	U10	220	U10
EW-07	09/30/86	3	U10	U10	140	U10	230	U10
EW-07	09/30/86	Mean	U10	U10	180	U10	200	U10
EW-10	10/01/86		U10	U10	71	U10	410	U10
EW-11	09/30/86		U10	U10	170	U10	94	U10
EW-12	10/01/86		U10	U10	31	U10	110	U10
EW-13	10/01/86		U20	U10	260	U20	440	U10
EW-14	10/01/86		U20	U10	U10	U20	930	U10
EW-15	10/01/86		U10	U10	51	U10	170	U10
NG-01	10/02/86		U20	8	U10	U20	42	U10
NG-02	10/02/86		26	11	41	U10	36	U10
NG-03	10/02/86		U10	U10	45	U10	40	U10
NG-04	10/02/86		U10	U10	25	U10	39	U10
NG-05	10/02/86		8	U10	16	U20	33	U10
NG-06	10/08/86		U10	U10	B10	U10	B10	U10
NG-07	10/02/86		U10	5	30	U10	41	U10
NG-08	10/02/86		U10	U10	16	U10	29	U10
NG-09	10/03/86		U10	U10	B10	U10	Z38	U10
NG-10	10/03/86		U10	U10	B10	U10	Z41	U10
NG-11	10/03/86		U10	U10	B10	U10	Z50	U10
NG-12	10/15/86		U10	U10	B10	U10	Z14	U10
NG-13	10/15/86		U10	U10	B10	U10	B10	U10
NG-14	10/15/86		U10	U10	B10	36	Z17	U10
NG-15	10/15/86		U10	U10	B10	11	Z41	U10
OG-01	10/09/86		U10	U10	Z150	U10	Z30	U10
OG-02	10/09/86		U10	U10	Z32	U10	Z37	U10
OG-03	10/09/86		U10	U10	Z16	U10	U10	U10
OG-04	10/09/86		U10	U10	B10	U10	Z33	U10
OG-05	10/09/86		U10	U10	B10	U10	Z28	U10
OG-06	10/09/86		U10	U10	B10	U10	Z220	U10
OG-07	10/09/86		U10	U10	B10	U10	Z12	U10
PS-02	10/13/86		U10	U10	B10	U10	B10	U10
PS-03	10/13/86		U10	U10	B10	U10	Z58	B3
PS-04	10/10/86		U10	U10	B10	U10	B10	U10
SD-01	10/09/86		U10	U10	B10	U10	B10	B4
SD-02	10/07/86		U10	U10	Z40	20	B10	U10
SD-03	10/02/86		U10	11	53	U10	53	U10
SR-01	10/06/86		U10	U10	U10	U10	B10	U10

TABLE B-18. CONCENTRATIONS (UG/KG DRY WEIGHT) OF EXTRACTABLE ORGANIC COMPOUNDS IN EVERETT HARBOR SEDIMENTS: MISCELLANEOUS OXYGENATED COMPOUNDS

Station	Sampling Date	Rep	iso-phorone	benzyl alcohol	benzoic acid	dibenzo-furan
ES-01	10/06/86		U50	U200	E10	7
ES-02	10/06/86		U50	U20	E10	6
ES-03	10/06/86		U50	U20	E760	15
EW-01	10/07/86		U10	U20	U100	230
EW-04	09/30/86		U50	810	U800	2200
EW-07	09/30/86	1	U50	U200	U200	1400
EW-07	09/30/86	2	U50	U100	U200	1500
EW-07	09/30/86	3	U50	U100	U200	1800
EW-07	09/30/86	Mean	U50	U100	U200	1600
EW-10	10/01/86		U50	U100	U800	470
EW-11	09/30/86		U50	58	U800	180
EW-12	10/01/86		U50	U200	U800	110
EW-13	10/01/86		U10	U100	U200	3100
EW-14	10/01/86		U10	U100	5900	5000
EW-15	10/01/86		U50	U100	U50	470
NG-01	10/02/86		U10	U100	U200	19
NG-02	10/02/86		U50	U100	U200	U10
NG-03	10/02/86		U50	U100	U200	U10
NG-04	10/02/86		U50	U200	U800	16
NG-05	10/02/86		U10	U100	X2100	16
NG-06	10/08/86		U50	U20	E10	13
NG-07	10/02/86		U50	U100	X1700	11
NG-08	10/02/86		U50	U100	X1300	20
NG-09	10/03/86		U50	U20	U100	U10
NG-10	10/03/86		U10	U10	U10	130
NG-11	10/03/86		U50	U20	240	470
NG-12	10/15/86		U50	U20	U100	U10
NG-13	10/15/86		U50	U20	U100	52
NG-14	10/15/86		U50	U20	U100	21
NG-15	10/15/86		U50	U20	80	U10
OG-01	10/09/86		U50	U20	U100	76
OG-02	10/09/86		U50	11	U800	58
OG-03	10/09/86		U10	U10	U10	64
OG-04	10/09/86		U50	U20	U100	62
OG-05	10/09/86		U50	U20	U100	39
OG-06	10/09/86		U50	U10	E150	49
OG-07	10/09/86		U50	U20	U100	U10
PS-02	10/13/86		U50	U200	U100	U10
PS-03	10/13/86		U50	U20	E10	11
PS-04	10/10/86		U50	U20	U100	U10
SD-01	10/09/86		U50	U20	U100	U10
SD-02	10/07/86		U50	U20	E36	12
SD-03	10/02/86		U50	X99	X770	28
SR-01	10/06/86		U50	U20	160	U10
SR-02	10/06/86		U50	U20	70	3
SR-03	10/06/86		U50	U20	78	10

TABLE B-19. CONCENTRATIONS (UG/KG DRY WEIGHT) OF EXTRACTABLE ORGANIC COMPOUNDS IN EVERETT HARBOR SEDIMENTS: ORGANONITROGEN COMPOUNDS

Station	Sampling Date	Rep	nitro-benzene	nitroso-di-n-propyl-amine	4-chloro-aniline	2-nitro-aniline	3-nitro-aniline	4-nitro-aniline
ES-01	10/06/86		U10	U10	U10	U10	U50	U100
ES-02	10/06/86		U10	U10	U10	U10	U50	U100
ES-03	10/06/86		U10	U10	U10	U10	U50	U100
EW-01	10/07/86		U10	U10	U10	U50	U50	U100
EW-04	09/30/86		U10	U10	U10	U10	U50	U100
EW-07	09/30/86	1	U10	U10	U10	U10	U50	U100
EW-07	09/30/86	2	U10	U10	U10	U10	U50	U100
EW-07	09/30/86	3	U10	U10	U10	U10	U50	U100
EW-07	09/30/86	Mean	U10	U10	U10	U10	U50	U100
EW-10	10/01/86		U10	U10	U10	U10	U50	U100
EW-11	09/30/86		U10	U10	U10	U10	U50	U100
EW-12	10/01/86		U10	U10	U10	U10	U50	U100
EW-13	10/01/86		U10	U10	U10	U50	U50	U100
EW-14	10/01/86		U10	U10	U10	U50	U50	U100
EW-15	10/01/86		U10	U10	U10	U10	U50	U100
NG-01	10/02/86		U10	U10	U10	U50	U50	U100
NG-02	10/02/86		U10	U10	U10	U10	U50	U100
NG-03	10/02/86		U10	U10	U10	U10	U50	U100
NG-04	10/02/86		U10	U10	U10	U10	U50	U100
NG-05	10/02/86		U10	U10	U10	U50	U50	U100
NG-06	10/08/86		U10	U10	U10	U10	U50	U100
NG-07	10/02/86		U10	U10	U10	U10	U50	U100
NG-08	10/02/86		U10	U10	U10	U10	U50	U100
NG-09	10/03/86		U10	U10	U10	U10	U50	U100
NG-10	10/03/86		U10	U10	U10	U10	U50	U100
NG-11	10/03/86		U10	U10	U10	U10	U50	U100
NG-12	10/15/86		U10	U10	U10	U10	U50	U100
NG-13	10/15/86		U10	U10	U10	U10	U50	U100
NG-14	10/15/86		U10	U10	U10	U10	U50	U100
NG-15	10/15/86		U10	U10	U10	U10	U50	U100
OG-01	10/09/86		U10	U10	U10	U10	U50	U100
OG-02	10/09/86		U10	U10	U10	U10	U50	U100
OG-03	10/09/86		U10	U10	U10	U10	U50	U100
OG-04	10/09/86		U10	U10	U10	U10	U50	U100
OG-05	10/09/86		U10	U10	U10	U10	U50	U100
OG-06	10/09/86		U10	U10	U10	U10	U50	U100
OG-07	10/09/86		U10	U10	U10	U10	U50	U100
PS-02	10/13/86		U10	U10	U10	U10	U50	U100
PS-03	10/13/86		U10	U10	U10	U10	U50	U100
PS-04	10/10/86		U10	U10	U10	U10	U50	U100
SD-01	10/09/86		U10	U10	U10	U10	U50	U100
SD-02	10/07/86		U10	U10	U10	U10	U50	U100
SD-03	10/02/86		U10	U10	U10	U10	U50	U100
SR-01	10/06/86		U10	U10	U10	U10	U50	U100

TABLE B-19. (Continued)

Station	Sampling Date	Rep	2,6-dinitro-toluene	2,4-dinitro-toluene	N-nitroso-di-phenyl-amine	3,3'di-chloro-benzidine
ES-01	10/06/86		U10	U10	U10	U50
ES-02	10/06/86		U10	U10	E16	U50
ES-03	10/06/86		U10	U10	E26	U50
EW-01	10/07/86		U10	U10	57	U50
EW-04	09/30/86		U10	U10	U10	U50
EW-07	09/30/86	1	U10	U10	U10	U50
EW-07	09/30/86	2	U10	U10	U10	U50
EW-07	09/30/86	3	U10	U10	U10	U50
EW-07	09/30/86	Mean	U10	U10	U10	U50
EW-10	10/01/86		U10	U10	U10	U50
EW-11	09/30/86		U10	U10	U10	U50
EW-12	10/01/86		U10	U10	U10	U50
EW-13	10/01/86		U10	U10	U10	U50
EW-14	10/01/86		U10	U10	U10	U50
EW-15	10/01/86		U10	U10	U10	U50
NG-01	10/02/86		U10	U10	U10	U50
NG-02	10/02/86		U10	U10	U10	U50
NG-03	10/02/86		U10	U10	U10	U50
NG-04	10/02/86		U10	U10	U10	U50
NG-05	10/02/86		U10	U10	U10	U50
NG-06	10/08/86		U10	U10	24	U50
NG-07	10/02/86		U10	U10	U10	U50
NG-08	10/02/86		U10	U10	U10	U50
NG-09	10/03/86		U10	U10	U10	U50
NG-10	10/03/86		U10	U10	U10	U50
NG-11	10/03/86		U10	U10	U10	U50
NG-12	10/15/86		U10	U10	U10	U50
NG-13	10/15/86		U10	U10	8	U50
NG-14	10/15/86		U10	U10	U10	U50
NG-15	10/15/86		U10	U10	U10	U50
OG-01	10/09/86		U10	U10	U10	U50
OG-02	10/09/86		U10	U10	U10	U50
OG-03	10/09/86		U10	U10	38	U50
OG-04	10/09/86		U10	U10	29	U50
OG-05	10/09/86		U10	U10	28	U50
OG-06	10/09/86		U10	U10	34	U50
OG-07	10/09/86		U10	U10	15	U50
PS-02	10/13/86		U10	U10	U10	U50
PS-03	10/13/86		U10	U10	U10	U50
PS-04	10/10/86		U10	U10	U10	U50
SD-01	10/09/86		U10	U10	E15	U50
SD-02	10/07/86		U10	U10	U10	U50
SD-03	10/02/86		U10	U10	U10	U50
SR-01	10/06/86		U10	U10	U10	U50

TABLE B-20. CONCENTRATIONS (UG/KG DRY WEIGHT) OF EXTRACTABLE ORGANIC COMPOUNDS IN EVERETT HARBOR SEDIMENTS: MISCELLANEOUS AROMATIC COMPOUNDS

Station	Sampling Date	Rep	2-methyl-naphthalene
ES-01	10/06/86		4
ES-02	10/06/86		6
ES-03	10/06/86		17
EW-01	10/07/86		160
EW-04	09/30/86		5000
EW-07	09/30/86	1	X7900
EW-07	09/30/86	2	3200
EW-07	09/30/86	3	X11000
EW-07	09/30/86	Mean	X7400
EW-10	10/01/86		U10
EW-11	09/30/86		330
EW-12	10/01/86		X310
EW-13	10/01/86		6700
EW-14	10/01/86		6400
EW-15	10/01/86		1100
NG-01	10/02/86		X120
NG-02	10/02/86		U10
NG-03	10/02/86		U10
NG-04	10/02/86		X75
NG-05	10/02/86		X120
NG-06	10/08/86		6
NG-07	10/02/86		U10
NG-08	10/02/86		X82
NG-09	10/03/86		400
NG-10	10/03/86		80
NG-11	10/03/86		190
NG-12	10/15/86		U10
NG-13	10/15/86		U10
NG-14	10/15/86		U10
NG-15	10/15/86		U10
OG-01	10/09/86		80
OG-02	10/09/86		Z71
OG-03	10/09/86		80
OG-04	10/09/86		72
OG-05	10/09/86		61
OG-06	10/09/86		120
OG-07	10/09/86		65
PS-02	10/13/86		3
PS-03	10/13/86		2
PS-04	10/10/86		U10
SD-01	10/09/86		U10
SD-02	10/07/86		U10
SD-03	10/02/86		X120
SR-01	10/06/86		U10
SR-02	10/06/86		6

TABLE B-21. CONCENTRATIONS (UG/KG DRY WEIGHT) OF RESIN ACID COMPOUNDS IN EVERETT HARBOR SEDIMENTS

Station	Sampling Date	Rep	sand-araco-pimaric acid	iso-pimaric acid	dehydro-abietic acid	abietic acid	neo-abietic acid	14-chloro-dehydro-abietic acid
EW-01	10/07/86		14000	U410	10000	E3100	U410	U410
EW-02	09/30/86		1500	3700	14000	7400	U550	1300
EW-03	09/30/86		2600	2200	17000	19000	U650	E1000
EW-04	09/30/86		8800	E5600	83000	52000	U600	3400
EW-05	09/30/86		E660	E660	4200	2300	U500	E310
EW-06	09/30/86		1800	4500	20000	12000	E750	U400
EW-07	09/30/86	1	E360	900	6500	3300	E230	1200
EW-07	09/30/86	2	3800	6200	9300	13000	680	1600
EW-07	09/30/86	Mean	E2100	3600	7900	8200	E460	1400
EW-08	09/30/86		1500	2500	9100	5100	E450	E270
EW-09	09/30/86		U900	E500	2500	U900	U900	900
EW-11	09/30/86		4100	1200	7100	7300	U500	U500
EW-13	10/01/86		6500	E11000	75000	98000	E14000	U800
EW-14	10/01/86		E2500	2300	3800	L1600	E380	U290
EW-15	10/01/86		E200	E330	1200	590	E79	U220
OG-02	10/09/86		E98	E240	1100	760	U190	U190
OG-03	10/09/86		E110	E350	1500	1700	U180	E59
OG-04	10/09/86		E76	U180	960	780	U180	U180
OG-06	10/09/86		E100	E260	1400	1200	U240	E100
OG-07	10/09/86		E43	E85	560	E280	U160	E46
PS-02	10/13/86		U180	U180	E40	U180	U180	U180
PS-03	10/13/86	1	U130	U130	U130	U130	U130	U130
PS-03	10/13/86	2	U130	U130	U130	U130	U130	U130
PS-03	10/13/86	Mean	U130	U130	U130	U130	U130	U130
PS-04	10/10/86		U130	U140	E20	U140	U140	U140
SD-01	10/09/86		U140	U140	E34	U140	U140	U140
SD-02	10/07/86		U150	U150	E150	U150	U150	U150
SR-03	10/06/86		E17	U140	E230	E170	U140	U140
SR-04	10/06/86		U220	E170	640	E450	U220	U220
SR-05	10/06/86		940	1500	3500	2300	E120	U250
SS-02	10/06/86		E51	E210	730	E340	E160	U180
SS-03	10/06/86	1	E34	E130	E180	U170	U170	U170
SS-03	10/06/86	2	E85	E140	E300	U210	U210	U210
SS-03	10/06/86	Mean	E60	E140	E240	U170	U170	U170
SS-03	10/06/86		E60	E140	E240	U170	U170	U170
SS-04	10/06/86		U160	U160	U160	U160	U160	U160
SS-05	10/06/86		U150	U150	E82	U150	U150	U150
SS-06	10/06/86		U150	U150	E82	U150	U150	U150

TABLE B-22. CONCENTRATIONS (UG/KG DRY WEIGHT) OF CHLORINATED PHENOLS AND GUAIACOLS IN EVERETT HARBOR SEDIMENTS

Station	Sampling Date	Rep	2-chloro-phenol	2,4-di-chloro-phenol	2,4,6-tri-chloro-phenol	2,4,5-tri-chloro-phenol	2,3,4,6-tetra-chloro-phenol	penta-chloro-phenol
EW-01	10/07/86		31	320	290	88	120	85
EW-02	09/30/86		U44	300	240	120	68	U44
EW-03	09/30/86		44	67	48	U13	U13	E31
EW-04	09/30/86		160	91	79	71	78	E460
EW-05	09/30/86		U10	50	44	10	30	E180
EW-06	09/30/86		25	44	27	12	U8	E43
EW-07	09/30/86	1	U5	32	18	9	U5	E13
EW-07	09/30/86	2	44	22	19	E8	U12	E11
EW-07	09/30/86	Mean	L24	27	18	E8	U5	E12
EW-08	09/30/86		U10	27	21	E8	U10	E13
EW-09	09/30/86		22	52	41	23	U18	E91
EW-11	09/30/86		U10	26	18	E8	19	E12
EW-13	10/01/86		U63	91	E44	U63	U63	E27
EW-14	10/01/86		U6	24	9	E4	U6	E16
EW-15	10/01/86		U4	7	7	E2	U4	13
OG-02	10/09/86		10	7	E3	6	U4	E5
OG-03	10/09/86		U4	12	5	4	U4	E4
OG-04	10/09/86		U4	6	E2	E2	U4	E3
OG-06	10/09/86		U4	9	U4	E3	U4	E4
OG-07	10/09/86		U3	4	E2	E1	U3	E2
PS-02	10/13/86	1	U3	U3	E2	U3	U3	U3
PS-02	10/13/86	2	U3	U3	E2	U3	U3	U3
PS-02	10/13/86	Mean	U3	U3	E2	U3	U3	U3
PS-03	10/13/86	1	U3	U3	U3	U3	U3	U3
PS-03	10/13/86	2	U3	U3	3	3	U3	U3
PS-03	10/13/86	Mean	U3	U3	L3	L3	U3	U3
PS-04	10/10/86		U3	U3	U3	U3	U3	U3
SD-01	10/09/86		U3	U3	U3	U3	U3	U3
SD-02	10/07/86		36	9	E6	U6	U6	E17
SR-03	10/06/86		U2	U2	U2	U2	U2	U2
SR-04	10/06/86		8	2	U4	U4	U4	E3
SR-05	10/06/86		U5	U5	U5	U5	U5	E3
SS-02	10/06/86		11	U3	U3	U3	U3	10
SS-03	10/06/86	1	U6	6	6	U6	E3	E3
SS-03	10/06/86	2	U3	4	E3	U3	U3	11
SS-03	10/06/86	3	U6	6	U6	E2	U6	U6
SS-03	10/06/86	4	U4	4	E3	U4	E2	U4
SS-03	10/06/86	Mean	U3	5	L4	L2	L2	L6
SS-04	10/06/86		U3	U3	12	U3	U3	U3
SS-05	10/06/86		E1	U3	U3	U3	U3	U3
SS-06	10/06/86		U3	U3	U3	U3	U3	U3

TABLE B-23. CONCENTRATIONS (UG/KG DRY WEIGHT) OF EXTRACTABLE ORGANIC COMPOUNDS IN EVERETT HARBOR SEDIMENTS: GROUP SUMS

Station	Sampling Date	Rep	low molecular weight aromatic hydrocarbons	high molecular weight aromatic hydrocarbons	total benzo-fluoranthenes
ES-01	10/06/86		L57	180	32
ES-02	10/06/86		L49	160	24
ES-03	10/06/86		Z180	L280	40
EW-01	10/07/86		Z1800	2500	320
EW-04	09/30/86		25000	8800	1100
EW-07	09/30/86	1	24000	5000	530
EW-07	09/30/86	2	14000	4700	390
EW-07	09/30/86	3	30000	6700	760
EW-07	09/30/86	Mean	E23000	5500	560
EW-10	10/01/86		5200	6500	820
EW-11	09/30/86		2400	1900	250
EW-12	10/01/86		1400	1000	170
EW-13	10/01/86		24000	11000	1100
EW-14	10/01/86		28000	23000	4100
EW-15	10/01/86		4900	3000	340
NG-01	10/02/86		L200	L140	19
NG-02	10/02/86		L110	L72	10
NG-03	10/02/86		L140	L76	8
NG-04	10/02/86		L220	L150	19
NG-05	10/02/86		L300	L160	21
NG-06	10/08/86		L130	400	72
NG-07	10/02/86		110	470	110
NG-08	10/02/86		L310	440	82
NG-09	10/03/86		Z4100	Z9000	2000
NG-10	10/03/86		Z1200	Z2800	460
NG-11	10/03/86		Z3500	Z8700	1600
NG-12	10/15/86		L47	L83	11
NG-13	10/15/86		L50	L88	11
NG-14	10/15/86		L460	Z840	70
NG-15	10/15/86		L55	L75	10
OG-01	10/09/86		Z840	660	74
OG-02	10/09/86		Z890	Z920	140
OG-03	10/09/86		Z820	L610	65
OG-04	10/09/86		Z800	690	79
OG-05	10/09/86		Z490	370	40
OG-06	10/09/86		Z600	L470	55
OG-07	10/09/86		Z800	730	78
PS-02	10/13/86		L39	L48	5
PS-03	10/13/86		L42	L43	U10
PS-04	10/10/86		L36	L36	5
SD-01	10/09/86		L46	L58	U10
SD-02	10/07/86		L180	L210	26

TABLE B-24. CONCENTRATIONS (UG/KG DRY WEIGHT) OF TENTATIVELY IDENTIFIED COMPOUNDS IN EVERETT HARBOR SEDIMENTS

Station	Sampling Date	Rep	cymene	1,2,4-tri-thiolane	base peak m/z 181, isomer 1	base peak m/z 181, isomer 2	di-benzo-thio-phene	hexa-decenoic acid methyl ester
ES-01	10/06/86		E2.2	U	E37	B	U	E182
ES-02	10/06/86		E2.2	E8.4	B	E3.7	U	E350
ES-03	10/06/86		E15	E22	E18	E4.9	U	E590
EW-01	10/07/86		E340	E1400	E790	E790	U	E580
EW-04	09/30/86		E2900	E5800	E12000	E6500	U	E3200
EW-07	09/30/86	1	E210	E610	E1600	E1500	E110	E360
EW-07	09/30/86	2	E220	E370	E1600	E930	E86	E470
EW-07	09/30/86	3	E260	E970	E3600	E2000	E120	E380
EW-07	09/30/86	Mean	E230	E650	E2300	E1500	E100	E400
EW-10	10/01/86		E64	E1600	E1100	E860	E33	E730
EW-11	09/30/86		E400	E590	E1000	E360	U	E200
EW-12	10/01/86		E9.9	E5.7	E380	E200	E10	E880
EW-13	10/01/86		E1000	E510	E810	E370	E86	E830
EW-14	10/01/86		E72	E180	E320	E270	E280	E71
EW-15	10/01/86		E120	E380	E750	E460	E43	E740
NG-01	10/02/86		U	U	E130	E69	U	E950
NG-02	10/02/86		E0.5	E5.3	E41	E20	U	E640
NG-03	10/02/86		U	U	E22	E11	U	E910
NG-04	10/02/86		E0.7	U	E12	E5.9	U	E1100
NG-05	10/02/86		U	U	E20	E11	U	E230
NG-06	10/08/86		E5.5	U	E24	E14	E2.6	E360
NG-07	10/02/86		U	U	E9.1	E4.3	U	E41
NG-08	10/02/86		E0.9	U	E19	E12	U	E56
NG-09	10/03/86		E300	E180	E96	E41	E79	E300
NG-10	10/03/86		E6.1	E4.3	E17	E11	E18	E150
NG-11	10/03/86		E3.0	E37	E8.4	E18	E120	E55
NG-12	10/15/86		U	U	E6.1	E3.1	U	E180
NG-13	10/15/86		U	U	E18	E9.9	U	E320
NG-14	10/15/86		U	U	U	U	E22	E350
NG-15	10/15/86		U	U	U	E5.8	U	E210
OG-01	10/09/86		E300	E160	E580	E350	E14	E330
OG-02	10/09/86		E280	E8.5	E340	E180	E8.6	E32
OG-03	10/09/86		E350	E71	E390	E210	E12	E330
OG-04	10/09/86		E240	E58	E300	E130	E6.2	E330
OG-05	10/09/86		E150	E39	E150	E82	U	E120
OG-06	10/09/86		E250	E44	E310	E170	E5.9	E380
OG-07	10/09/86		E140	E27	E330	E220	E9.4	E390
PS-02	10/13/86		U	U	U	U	U	E330
PS-03	10/13/86		U	U	B	B	U	E380
PS-04	10/10/86		U	U	B	B	U	E330
SD-01	10/09/86		E0.5	U	B	B	U	E180
SD-02	10/07/86		E28	E2.3	E160	E87	U	E290
SD-03	10/02/86		E3.4	E4.0	E260	E93	U	E77

TABLE B-24. (Continued)

Station	Sampling Date	Rep	hexa-decanoic acid methyl ester	hexa-decanoic acid	diter-penoid hydro-carbon	diter-penoid alcohol	retene	1-methyl-pyrene
ES-01	10/06/86		E340	E54	E19	E12	E6.1	U
ES-02	10/06/86		E660	U	E6.1	E12	E3.0	U
ES-03	10/06/86		E990	B	E100	E130	E56	U
EW-01	10/07/86		E1200	U	E600	E1300	E190	U
EW-04	09/30/86		E4300	U	E23000	U	E3100	U
EW-07	09/30/86	1	E660	E1600	E560	E140	E560	U
EW-07	09/30/86	2	E800	B	E440	E610	E840	E30
EW-07	09/30/86	3	E1400	E1200	E410	E1700	E1400	U
EW-07	09/30/86	Mean	E950	E1400	E470	E820	E930	E30
EW-10	10/01/86		E2200	E2300	E490	E1100	U	U
EW-11	09/30/86		E700	E1000	E800	E8600	E62	U
EW-12	10/01/86		E1100	B	E200	E31	E76	E8.1
EW-13	10/01/86		E1500	U	E1500	U	E2900	U
EW-14	10/01/86		E210	U	E1700	E1200	U	U
EW-15	10/01/86		E1900	E600	E360	E200	E160	E26
NG-01	10/02/86		E990	B	E9.5	E4.3	E7.0	E1.6
NG-02	10/02/86		E830	U	U	E1.4	E7.0	U
NG-03	10/02/86		E430	B	U	U	E3.0	U
NG-04	10/02/86		E1100	U	U	U	E3.5	E0.9
NG-05	10/02/86		E280	E42	E1.7	E1.2	E5.4	E1.9
NG-06	10/08/86		E360	E36	E77	U	E9.8	E3.8
NG-07	10/02/86		E92	E64	U	U	U	E6.5
NG-08	10/02/86		E160	E59	E2.7	E25	U	U
NG-09	10/03/86		E440	B	E14	E23	E140	E170
NG-10	10/03/86		E350	E180	E9.8	E10	U	E36
NG-11	10/03/86		E100	E380	E120	E1000	U	E240
NG-12	10/15/86		E200	U	U	U	E0.8	E0.4
NG-13	10/15/86		E580	E80	U	E0.9	E4.7	U
NG-14	10/15/86		E550	B	U	U	U	E12
NG-15	10/15/86		E450	E110	U	E1.5	E3.1	U
OG-01	10/09/86		E470	E520	E230	E26	E60	E5.7
OG-02	10/09/86		E59	E54	E61	E7.3	E24	E8.4
OG-03	10/09/86		E440	E320	E120	E17	E33	E6.7
OG-04	10/09/86		E260	E90	E110	E20	E60	E3.2
OG-05	10/09/86		E150	E120	E52	E14	E40	U
OG-06	10/09/86		E380	B	E140	E17	E56	U
OG-07	10/09/86		E470	B	E40	E11	E57	E7.6
PS-02	10/13/86		E380	B	U	E3.1	E1.2	U
PS-03	10/13/86		E480	E35	U	E1.8	E1.6	U
PS-04	10/10/86		E440	B	U	E1.2	U	U
SD-01	10/09/86		E190	U	U	E0.4	E1.3	U
SD-02	10/07/86		E260	B	E12	E4.0	E32	E1.7
SD-03	10/02/86		E230	E130	E32	E31	E27	E3.7
SR-01	10/06/86		E590	B	E1.8	E1.8	E2.9	U

TABLE B-24. (Continued)

Station	Sampling Date	Rep	alkanol	chol- esterol	camp- esterol
ES-01	10/06/86		E88	E18	U
ES-02	10/06/86		E230	E35	U
ES-03	10/06/86		E340	E120	U
EW-01	10/07/86		E380	E120	E81
EW-04	09/30/86		E2200	E630	E1100
EW-07	09/30/86	1	E250	E71	E97
EW-07	09/30/86	2	E430	E56	E110
EW-07	09/30/86	3	E680	E68	E88
EW-07	09/30/86	Mean	E450	E65	E98
EW-10	10/01/86		E1200	E120	E25
EW-11	09/30/86		E930	E45	E720
EW-12	10/01/86		E580	E26	E73
EW-13	10/01/86		E1000	E130	E360
EW-14	10/01/86		E300	E65	U
EW-15	10/01/86		E540	E77	E74
NG-01	10/02/86		E350	E22	U
NG-02	10/02/86		E390	E13	U
NG-03	10/02/86		E470	E26	U
NG-04	10/02/86		E390	E20	U
NG-05	10/02/86		E390	E86	U
NG-06	10/08/86		E150	E160	U
NG-07	10/02/86		E210	E12	U
NG-08	10/02/86		E270	E32	U
NG-09	10/03/86		E460	E280	U
NG-10	10/03/86		E62	E150	U
NG-11	10/03/86		E27	E160	U
NG-12	10/15/86		U	E6.1	U
NG-13	10/15/86		U	E57	U
NG-14	10/15/86		U	E260	U
NG-15	10/15/86		U	E52	E3.9
OG-01	10/09/86		E390	E70	E170
OG-02	10/09/86		E83	E28	E8.5
OG-03	10/09/86		E360	E140	E99
OG-04	10/09/86		E280	E93	E140
OG-05	10/09/86		E130	E13	E37
OG-06	10/09/86		E290	E54	E20
OG-07	10/09/86		E190	E4.1	E63
PS-02	10/13/86		U	E47	U
PS-03	10/13/86		U	E19	U
PS-04	10/10/86		U	E20	U
SD-01	10/09/86		U	E0.7	U
SD-02	10/07/86		E85	E60	U
SD-03	10/02/86		E520	E31	U
SR-01	10/06/86		U	E16	U
SR-02	10/06/86		U	E12	U
SR-03	10/06/86		E71	E6.8	U
SR-04	10/06/86		E260	E65	E7.9

TABLE B-25. CONCENTRATIONS (UG/KG DRY WEIGHT) OF PESTICIDES AND TOTAL POLYCHLORINATED BIPHENYLS IN EVERETT HARBOR SEDIMENTS

Station	Sampling Date	Rep	p,p'-DDE	p,p'-DDD	p,p'-DDT	aldrin	dieldrin
ES-01	10/06/86		U10	U10	U1.0	U5.0	U10
ES-02	10/06/86		U1.0	U1.0	U1.0	U0.50	U1.0
ES-03	10/06/86		U10	U10	U10	U5.0	U10
EW-01	10/07/86		U100	U100	U100	U50	U100
EW-04	09/30/86		U200	U200	U200	U100	U200
EW-07	09/30/86	1	U10	U10	U10	U5.0	U10
EW-07	09/30/86	2	U10	U10	U10	U5.0	U10
EW-07	09/30/86	Mean	U10	U10	U10	U5.0	U10
EW-10	10/01/86		U10	U10	U10	U5.0	U10
EW-11	09/30/86		U5.0	U100	U10	U5.0	U5.0
EW-12	10/01/86		U10	U1.0	U1.0	U5.0	U1.0
EW-13	10/01/86	1	U10	U10	U10	U5.0	U10
EW-13	10/01/86	2	U10	U10	U10	U5.0	U10
EW-13	10/01/86	Mean	U10	U10	U10	U5.0	U10
EW-14	10/01/86		U100	U100	U100	U50	U100
EW-15	10/01/86		U100	U100	U100	U50	U100
NG-01	10/02/86		U1.0	U1.0	U1.0	U0.50	U1.0
NG-02	10/02/86		U1.0	U1.0	U1.0	U0.50	U1.0
NG-03	10/02/86		U1.0	U1.0	U1.0	U0.50	U1.0
NG-04	10/02/86		U1.0	U1.0	U1.0	U0.50	U1.0
NG-05	10/02/86		U1.0	U1.0	U1.0	U0.50	U1.0
NG-06	10/08/86		U10	U10	U10	U5.0	U10
NG-07	10/02/86		U1.0	U1.0	U1.0	U0.50	U1.0
NG-08	10/02/86		U1.0	U1.0	U1.0	U5.0	U1.0
NG-09	10/03/86		U100	U100	U100	U50	U100
NG-10	10/03/86		U10	U10	U10	U5.0	U10
NG-11	10/03/86		U10	U10	U10	U5.0	U10
NG-12	10/15/86		U1.0	U1.0	U1.0	U0.50	U1.0
NG-13	10/15/86		U1.0	U1.0	U1.0	U0.50	U1.0
NG-14	10/15/86		U1.0	U1.0	U1.0	U5.0	U1.0
NG-15	10/15/86		U1.0	U1.0	U1.0	U0.5	U1.0
OG-01	10/09/86		U10	U10	U10	U5.0	U10
OG-02	10/09/86		U10	U10	U10	U5.0	U10
OG-03	10/09/86		U10	U10	U10	U5.0	U10
OG-04	10/09/86		U10	U10	U10	U5.0	U10
OG-05	10/09/86		U10	U10	U10	U5.0	U10
OG-06	10/09/86		U1.0	U1.0	U1.0	U5.0	U1.0
OG-07	10/09/86		U10	U10	U10	U5.0	U10
PS-02	10/13/86		U10	U10	U10	U5.0	U10
PS-03	10/13/86		U1.0	U1.0	U1.0	U0.50	U1.0
PS-04	10/10/86		U1.0	U1.0	U1.0	U0.50	U1.0
SD-01	10/09/86		U1.0	U1.0	U1.0	U0.50	U1.0

TABLE B-25. (Continued)

Station	Sampling Date	Rep	alpha-HCH	beta-HCH	delta-HCH	gamma-HCH (lindane)	chlordanes
ES-01	10/06/86		U5.0	U5.0	U5.0	U5.0	U50
ES-02	10/06/86		U0.50	U0.50	U0.50	U0.50	U5.0
ES-03	10/06/86		U5.0	U5.0	U5.0	U5.0	U50
EW-01	10/07/86		U50	U50	U50	U50	U500
EW-04	09/30/86		U100	U100	U100	U100	U1000
EW-07	09/30/86	1	U50	U50	U50	U50	U50
EW-07	09/30/86	2	U50	U50	U5.0	U50	U50
EW-07	09/30/86	Mean	U50	U50	U5.0	U50	U50
EW-10	10/01/86		U50	U50	U5.0	U50	U50
EW-11	09/30/86		U5.0	U5.0	U5.0	U5.0	U50
EW-12	10/01/86		U5.0	U5.0	U5.0	U5.0	U5.0
EW-13	10/01/86	1	U50	U5.0	U5.0	U5.0	U50
EW-13	10/01/86	2	U50	U50	U50	U50	U50
EW-13	10/01/86	Mean	U50	U5.0	U5.0	U5.0	U50
EW-14	10/01/86		U50	U50	U50	U50	U500
EW-15	10/01/86		U50	U50	U50	U50	U500
NG-01	10/02/86		U0.50	U0.50	U0.50	U0.50	U5.0
NG-02	10/02/86		U0.50	U0.50	U0.50	U0.50	U5.0
NG-03	10/02/86		U0.50	U0.50	U0.50	U0.50	U5.0
NG-04	10/02/86		U5.0	U0.50	U0.50	1	U5.0
NG-05	10/02/86		U5.0	U0.50	U0.50	U0.50	U5.0
NG-06	10/08/86		U5.0	U5.0	U5.0	U5.0	U50
NG-07	10/02/86		U0.50	U0.50	U0.50	U0.50	U5.0
NG-08	10/02/86		U5.0	U5.0	U5.0	U5.0	U5.0
NG-09	10/03/86		U50	U50	U50	U50	U500
NG-10	10/03/86		U5.0	U5.0	U5.0	U5.0	U50
NG-11	10/03/86		U5.0	U5.0	U5.0	U5.0	U50
NG-12	10/15/86		U0.50	U0.50	U0.50	U0.50	U5.0
NG-13	10/15/86		U5.0	U5.0	U0.50	U5.0	U5.0
NG-14	10/15/86		U5.0	U5.0	U5.0	U5.0	U5.0
NG-15	10/15/86		U5.0	U0.5	U0.5	U0.5	U5.0
OG-01	10/09/86		U5.0	U5.0	U5.0	U5.0	U50
OG-02	10/09/86		U50	U50	U5.0	U50	U50
OG-03	10/09/86		U5.0	U5.0	U5.0	U5.0	U50
OG-04	10/09/86		U5.0	U5.0	U5.0	U5.0	U50
OG-05	10/09/86		U5.0	U5.0	U5.0	U5.0	U50
OG-06	10/09/86		U5.0	U5.0	U5.0	U5.0	U50
OG-07	10/09/86		U5.0	U5.0	U5.0	U5.0	U50
PS-02	10/13/86		U50	U50	U5.0	U50	U50
PS-03	10/13/86		U0.50	U0.50	U0.50	U0.50	U5.0
PS-04	10/10/86		U0.50	U0.50	U0.50	U0.50	U5.0

TABLE B-25. (Continued)

Station	Sampling Date	Rep	alpha- endo- sulfan	beta- endo- sulfan	endo- sulfan sulfate	endrin	hepta- chlor	hepta- chlor epoxide
ES-01	10/06/86		U5.0	U1.0	U1.0	U10	U5.0	U5.0
ES-02	10/06/86		U0.50	U1.0	U1.0	U1.0	U0.50	U0.50
ES-03	10/06/86		U5.0	U10	U10	U10	U5.0	U5.0
EW-01	10/07/86		U50	U100	U100	U100	U50	U50
EW-04	09/30/86		U100	U200	U200	U200	U100	U100
EW-07	09/30/86	1	U5.0	U10	U10	U10	U50	U5.0
EW-07	09/30/86	2	U5.0	U10	U10	U10	U50	U5.0
EW-07	09/30/86	Mean	U5.0	U10	U10	U10	U50	U5.0
EW-10	10/01/86		U5.0	U10	U10	U10	U50	U5.0
EW-11	09/30/86		U5.0	U100	U10	U10	U5.0	U5.0
EW-12	10/01/86		U5.0	U10	U1.0	U10	U5.0	U5.0
EW-13	10/01/86	1	U5.0	U10	U10	U10	U5.0	U5.0
EW-13	10/01/86	2	U5.0	U10	U10	U10	U50	U5.0
EW-13	10/01/86	Mean	U5.0	U10	U10	U10	U5.0	U5.0
EW-14	10/01/86		U50	U100	U100	U100	U50	U50
EW-15	10/01/86		U50	U100	U100	U100	U50	U50
NG-01	10/02/86		U0.50	U1.0	U1.0	U1.0	U0.50	U0.50
NG-02	10/02/86		U0.50	U1.0	U1.0	U1.0	U0.50	U0.50
NG-03	10/02/86		U0.50	U1.0	U1.0	U1.0	U0.50	U0.50
NG-04	10/02/86		U0.50	U1.0	U1.0	U1.0	U0.50	U0.50
NG-05	10/02/86		U0.50	U1.0	U1.0	U1.0	U0.50	U0.50
NG-06	10/08/86		U5.0	U10	U10	U10	U5.0	U5.0
NG-07	10/02/86		U0.50	U1.0	U1.0	U1.0	U0.50	U0.50
NG-08	10/02/86		U0.50	U1.0	U1.0	U1.0	U5.0	U0.50
NG-09	10/03/86		U50	U100	U100	U100	U50	U50
NG-10	10/03/86		U5.0	U10	U10	U10	U5.0	U5.0
NG-11	10/03/86		U5.0	U10	U10	U10	U5.0	U5.0
NG-12	10/15/86		U0.50	U1.0	U1.0	U1.0	U0.50	U0.50
NG-13	10/15/86		U0.50	U1.0	U1.0	U1.0	U5.0	U0.50
NG-14	10/15/86		U0.5	U1.0	U1.0	U1.0	U5.0	U0.5
NG-15	10/15/86		U0.5	U1.0	U1.0	U1.0	U0.5	U0.5
OG-01	10/09/86		U5.0	U10	U10	U10	U5.0	U5.0
OG-02	10/09/86		U5.0	U10	U10	U10	U5.0	U5.0
OG-03	10/09/86		U5.0	U10	U10	U10	U5.0	U5.0
OG-04	10/09/86		U5.0	U10	U10	U10	U5.0	U5.0
OG-05	10/09/86		U5.0	U10	U10	U10	U5.0	U5.0
OG-06	10/09/86		U5.0	U1.0	U1.0	U10	U5.0	U5.0
OG-07	10/09/86		U5.0	U10	U1.0	U10	U5.0	U5.0
PS-02	10/13/86		U5.0	U10	U10	U10	U50	U5.0
PS-03	10/13/86		U0.50	U1.0	U1.0	U1.0	U0.50	U0.50
PS-04	10/10/86		U0.50	U1.0	U1.0	U1.0	U0.50	U0.50
SD-01	10/09/86		U0.50	U1.0	U1.0	U1.0	U0.50	U0.50

TABLE B-26. CONVENTIONAL VARIABLES IN EVERETT HARBOR SEDIMENTS:
TOTAL SOLIDS; TOTAL ORGANIC CARBON, TOTAL NITROGEN, AND SULFIDE

Station	Sampling Date	Rep	percent total solids (wet wt)	percent total organic carbon (dry wt)	percent nitrogen (dry wt)	sulfide (mg/kg dry wt)
ES-01	10/06/86		73.6	0.54	0.030	10
ES-02	10/06/86		74.9	0.73	0.039	10
ES-03	10/06/86		63.4	1.43	0.099	U5
EW-01	10/07/86		25.8	10.7	0.59	U5
EW-02	09/30/86		23.0	8.69	0.51	11200
EW-03	09/30/86	1	22.0	10.2	0.59	9500
EW-03	09/30/86	2	22.0	NR	NR	NR
EW-03	09/30/86	Mean	22.0	10.2	0.59	9500
EW-04	09/30/86		27.2	29.4	0.50	7600
EW-05	09/30/86	1	31.7	12.0	0.35	2700
EW-05	09/30/86	2	32.1	NR	NR	NR
EW-05	09/30/86	Mean	31.9	12.0	0.35	2700
EW-06	09/30/86		33.0	11.2	0.36	420
EW-07	09/30/86	1	41.8	6.19	0.22	930
EW-07	09/30/86	2	46.6	6.20	0.23	1400
EW-07	09/30/86	3	45.0	5.92	0.26	NR
EW-07	09/30/86	Mean	44.5	6.10	0.24	1200
EW-08	09/30/86		32.0	13.2	0.35	2800
EW-09	09/30/86	1	23.9	14.6	0.47	2300
EW-09	09/30/86	2	NR	14.2	0.47	NR
EW-09	09/30/86	Mean	23.9	14.4	0.47	2300
EW-10	10/01/86	1	38.2	11.8	0.35	2900
EW-10	10/01/86	2	38.4	NR	NR	NR
EW-10	10/01/86	Mean	38.3	11.8	0.35	2900
EW-11	09/30/86	1	36.9	9.54	0.26	2100
EW-11	09/30/86	2	39.4	NR	NR	NR
EW-11	09/30/86	Mean	38.2	9.54	0.26	2100
EW-12	10/01/86		71.3	2.23	0.048	240
EW-13	10/01/86		28.3	22.7	0.26	1200
EW-14	10/01/86	1	49.9	4.66	0.25	700
EW-14	10/01/86	2	72.0	NR	NR	NR
EW-14	10/01/86	Mean	61.0	4.66	0.25	700
EW-15	10/01/86	1	58.8	4.35	0.14	370
EW-15	10/01/86	2	59.0	NR	NR	NR
EW-15	10/01/86	Mean	58.9	4.35	0.14	370
NG-01	10/02/86		79.0	0.20	0.013	40
NG-02	10/02/86		76.5	0.18	0.010	67
NG-03	10/02/86		79.5	0.19	0.014	18
NG-04	10/02/86		79.7	0.28	0.016	33
NG-05	10/02/86	1	78.5	0.67	0.029	20
NG-05	10/02/86	2	NR	0.64	0.030	NR
NG-05	10/02/86	Mean	78.5	0.66	0.030	20
NG-06	10/08/86		79.9	0.39	0.020	6

TABLE B-25. (Continued)

Station	Sampling Date	Rep	toxa- phene	endrin ketone	methoxy- chlor	total PCBs
ES-01	10/06/86		U100	U1.0	U5.0	U5.0
ES-02	10/06/86		U10	U1.0	U5.0	U5.0
ES-03	10/06/86		U100	U10	U50	U5.0
EW-01	10/07/86		U1000	U100	U500	U5.0
EW-04	09/30/86		U2000	U200	U1000	E9600
EW-07	09/30/86	1	U100	U10	U50	E83
EW-07	09/30/86	2	U100	U10	U50	E90
EW-07	09/30/86	Mean	U100	U10	U50	E86
EW-10	10/01/86		U100	U10	U50	E13
EW-11	09/30/86		U1000	U10	U50	U5.0
EW-12	10/01/86		U10	U10	U5.0	U5.0
EW-13	10/01/86	1	U100	U10	U50	NR
EW-13	10/01/86	2	U100	U10	U50	NR
EW-13	10/01/86	Mean	U100	U10	U50	U5.0
EW-14	10/01/86		U1000	U100	U500	U50
EW-15	10/01/86		U1000	U100	U500	U5.0
NG-01	10/02/86		U10	U1.0	U5.0	U1
NG-02	10/02/86		U10	U1.0	U5.0	U5.0
NG-03	10/02/86		U10	U1.0	U5.0	U5.0
NG-04	10/02/86		U10	U1.0	U5.0	U5.0
NG-05	10/02/86		U10	U1.0	U5.0	U1
NG-06	10/08/86	1	NR	NR	NR	U5.0
NG-06	10/08/86	2	NR	NR	NR	U5.0
NG-06	10/08/86	Mean	U100	U10	U50	U5.0
NG-07	10/02/86		U10	U1.0	U5.0	U5.0
NG-08	10/02/86		U10	U1.0	U5.0	E11
NG-09	10/03/86		U1000	U100	U500	E5500
NG-10	10/03/86		U100	U10	U50	U50
NG-11	10/03/86		U100	U10	U50	U50
NG-12	10/15/86		U10	U1.0	U5.0	U50
NG-13	10/15/86		U10	U1.0	U5.0	U50
NG-14	10/15/86		U10	U1.0	U5.0	U50
NG-15	10/15/86		U10	U1.0	U5.0	E41
OG-01	10/09/86		U100	U10	U50	U5.0
OG-02	10/09/86	1	NR	NR	NR	U5.0
OG-02	10/09/86	2	NR	NR	NR	U5.0
OG-02	10/09/86	Mean	U100	U10	U50	U5.0
OG-03	10/09/86		U100	U1.0	U5.0	U5.0
OG-04	10/09/86		U100	U10	U50	U50
OG-05	10/09/86		U100	U10	U50	U50
OG-06	10/09/86		U10	U1.0	U5.0	U50
OG-07	10/09/86		U100	U1.0	U5.0	U50
PS-02	10/13/86		U100	U10	U50	U50
PS-03	10/13/86		U10	U1.0	U5.0	U50
PS-04	10/10/86		U10	U1.0	U5.0	U50
SD-01	10/09/86		U10	U1.0	U5.0	U5.0
SD-02	10/07/86		U10	U1.0	U5.0	U5.0

TABLE B-26. (Continued)

Station	Sampling Date	Rep	percent total solids (wet wt)	percent total organic carbon (dry wt)	percent nitrogen (dry wt)	sulfide (mg/kg dry wt)
SD-03	10/02/86	Mean	60.9	1.98	0.090	234
SR-01	10/06/86		83.5	0.26	0.021	U5
SR-02	10/06/86		78.2	0.29	0.021	U5
SR-03	10/06/86		78.4	0.43	0.028	10
SR-04	10/06/86		56.1	2.33	0.14	64
SR-05	10/06/86		48.8	3.85	0.20	33
SR-06	10/06/86	1	74.0	0.19	0.013	10
SR-06	10/06/86	2	76.6	NR	NR	NR
SR-06	10/06/86	3	76.8	NR	NR	NR
SR-06	10/06/86	Mean	75.8	0.19	0.013	10
SR-07	10/03/86	1	46.1	3.22	0.22	600
SR-07	10/03/86	2	46.5	3.26	0.21	NR
SR-07	10/03/86	Mean	46.3	3.24	0.22	600
SR-08	10/03/86		74.7	1.71	0.070	90
SS-01	10/06/86		83.5	0.43	0.025	U5
SS-02	10/06/86		70.9	0.79	0.056	10
SS-03	10/06/86	1	68.7	1.58	0.14	18
SS-03	10/06/86	2	69.1	1.43	0.073	10
SS-03	10/06/86	3	68.1	1.52	0.093	NR
SS-03	10/06/86	4	NR	1.56	0.094	NR
SS-03	10/06/86	5	NR	1.56	0.091	NR
SS-03	10/06/86	Mean	68.6	1.51	0.098	14
SS-04	10/06/86		82.2	0.24	0.014	10
SS-05	10/06/86		79.2	0.35	0.024	96
SS-06	10/06/86		75.8	0.79	0.046	16

NR = Replicate analysis for this compound was not performed in this sample.

TABLE B-27. (Continued)

Station	Sampling Date	Rep	percent Rocks	percent Sand	percent Silt	percent Clay
NG-12	10/15/86	Mean	6.1	90.6	0.6	2.8
NG-13	10/15/86		6.3	90.2	0.4	3.1
NG-14	10/15/86		24.5	72.2	0.5	3.0
NG-15	10/15/86		45.4	49.0	1.4	4.2
OG-01	10/09/86	1	1.8	62.5	12.1	23.5
OG-01	10/09/86	2	0.6	66.5	15.6	17.2
OG-01	10/09/86	Mean	1.2	64.5	13.8	20.4
OG-02	10/09/86	1	0.6	72.7	13.4	13.2
OG-02	10/09/86	2	1.1	61.7	16.9	20.4
OG-02	10/09/86	Mean	0.8	67.2	15.2	16.8
OG-03	10/09/86	1	0.2	67.4	15.0	17.3
OG-03	10/09/86	2	0.3	71.5	11.3	17.0
OG-03	10/09/86	Mean	0.2	69.4	13.2	17.2
OG-04	10/09/86	1	1.5	67.3	14.0	17.1
OG-04	10/09/86	2	1.3	67.3	15.1	16.5
OG-04	10/09/86	Mean	1.4	67.3	14.6	16.8
OG-05	10/09/86	1	0.3	62.8	18.6	18.1
OG-05	10/09/86	2	1.8	64.0	16.2	18.1
OG-05	10/09/86	Mean	1.0	63.4	17.4	18.1
OG-06	10/09/86	1	0.4	45.5	27.0	27.1
OG-06	10/09/86	2	0.9	40.3	23.1	35.7
OG-06	10/09/86	Mean	0.6	42.9	25.0	31.4
OG-07	10/09/86	1	0.3	88.9	2.1	8.8
OG-07	10/09/86	2	0.2	85.7	6.2	7.9
OG-07	10/09/86	Mean	0.2	87.3	4.2	8.4
PS-02	10/13/86		0.1	88.4	2.3	9.2
PS-03	10/13/86		0.1	91.9	1.2	6.8
PS-04	10/10/86		1.2	91.5	0.7	6.7
SD-01	10/09/86		12.3	83.1	0.4	4.2
SD-02	10/07/86		0.0	88.5	5.7	5.8
SD-03	10/02/86	1	0.0	48.3	31.0	20.6
SD-03	10/02/86	2	0.0	47.4	31.8	20.8
SD-03	10/02/86	Mean	0.0	47.8	31.4	20.7
SR-01	10/06/86		29.7	66.2	1.0	3.1
SR-02	10/06/86		0.8	94.5	1.3	3.3
SR-03	10/06/86		2.1	88.9	4.9	4.1
SR-04	10/06/86		0.3	38.3	42.7	18.8
SR-05	10/06/86		0.8	34.5	38.2	26.5
SR-06	10/06/86	1	0.1	92.9	1.2	5.9
SR-06	10/06/86	2	0.2	94.0	3.0	2.8
SR-06	10/06/86	3	0.1	97.5	0.3	2.2
SR-06	10/06/86	Mean	0.1	94.8	1.5	3.6
SR-07	10/03/86	1	0.0	4.3	56.5	39.2
SR-07	10/03/86	2	0.4	4.5	61.0	34.1
SR-07	10/03/86	Mean	0.2	4.4	58.8	36.6
SR-08	10/03/86		5.3	72.6	13.2	8.9
SS-01	10/06/86		0.0	90.5	4.6	4.9

TABLE B-28. CONCENTRATIONS (MG/KG WET WEIGHT) OF MERCURY
IN EVERETT HARBOR FISH AND CRAB TISSUE

Station	Sample	Sampling Date	Rep	Mercury
EW-91	492 -M ^a	08/28/86		E0.009
EW-91	503 -M	08/28/86		E0.003
EW-91	514 -M	08/28/86		E0.016
EW-91	518 -M	08/29/86	1	E0.011
EW-91	518 -M	08/29/86	2	E0.011
EW-91	518 -M	08/29/86	Mean	E0.011
EW-91	527 -M	08/29/86		E0.009
EW-91	CRAB ^b	NA	1	E0.062
EW-91	CRAB	NA	2	E0.065
EW-91	CRAB	NA	Mean	E0.064
EW-91	CRAB2	NA		E0.082
EW-91	CRAB3	NA		E0.057
EW-92	311 -M	08/27/86		E0.034
EW-92	318 -M	08/27/86		E0.066
EW-92	325 -M	08/27/86		E0.046
EW-92	340 -M	08/27/86		E0.038
EW-92	350 -M	08/27/86		E0.019
EW-92	CRAB	NA		E0.132
NG-91	2 -M	08/25/86		E0.061
NG-91	3 -M	08/25/86		E0.078
NG-91	19 -M	08/25/86		E0.065
NG-91	42 -M	08/25/86		E0.044
NG-91	CRAB	08/25/86		E0.074
NG-92	61 -M	08/25/86	1	E0.040
NG-92	61 -M	08/25/86	2	E0.043
NG-92	61 -M	08/25/86	Mean	E0.042
NG-92	70 -M	08/25/86		E0.070
NG-92	81 -M	08/25/86		E0.034
NG-92	97 -M	08/25/86		E0.049
NG-92	111 -M	08/25/86		E0.061
NG-92	CRAB	NA	1	E0.085
NG-92	CRAB	NA	2	E0.093
NG-92	CRAB	NA	Mean	E0.089
NG-93	131 -M	08/26/86		E0.046
NG-93	133 -M	08/26/86		E0.013
NG-93	143 -M	08/26/86		E0.023
NG-93	161 -M	08/26/86		E0.063
NG-93	173 -M	08/26/86		E0.033
NG-93	CRAB	NA		E0.038
NG-94	666 -M	09/02/86		E0.060
NG-94	677 -M	09/02/86		E0.058
NG-94	687 -M	09/02/86		E0.041
NG-94	697 -M	09/02/86		E0.042
NG-94	717 -M	09/02/86		E0.037
NG-94	CRAB			E0.067

TABLE B-29. CONCENTRATIONS (UG/KG WET WEIGHT) OF PESTICIDES AND PCBS IN EVERETT HARBOR FISH AND CRAB TISSUE

Station	Sample	Sampling Date	Rep	p,p'-DDE	p,p'-DDD	p,p'-DDT	aldrin	dieldrin
EW-91	492 -M ^a	08/28/86		U0.4	U0.6	U0.7	U0.2	U0.3
EW-91	503 -M	08/28/86		U0.4	U0.6	U0.7	U0.2	U0.3
EW-91	514 -M	08/28/86		U0.4	U0.6	U0.7	U0.2	U0.3
EW-91	518 -M	08/29/86		U0.4	U0.6	U0.7	U0.2	U0.3
EW-91	527 -M	08/29/86		U0.4	U0.6	U0.7	U0.2	U0.3
EW-91	CRAB ^b	NA	1	U0.4	U0.6	U0.7	U0.2	U0.3
EW-91	CRAB	NA	2	U0.4	U0.6	U0.7	U0.2	U0.3
EW-91	CRAB	NA	Mean	U0.4	U0.6	U0.7	U0.2	U0.3
EW-91	CRAB2	NA		U0.4	U0.6	U0.7	U0.2	U0.3
EW-91	CRAB3	NA		U0.4	U0.6	U0.7	U0.2	U0.3
EW-92	311 -M	08/27/86	1	U0.4	U0.6	U0.7	U0.2	U0.3
EW-92	311 -M	08/27/86	2	U0.4	U0.6	U0.7	U0.2	U0.3
EW-92	311 -M	08/27/86	Mean	U0.4	U0.6	U0.7	U0.2	U0.3
EW-92	318 -M	08/27/86		U0.4	U0.6	U0.7	U0.2	U0.3
EW-92	325 -M	08/27/86		U0.4	U0.6	U0.7	U0.2	U0.3
EW-92	340 -M	08/27/86		U0.4	U0.6	U0.7	U0.2	U0.3
EW-92	350 -M	08/27/86		U0.4	U0.6	U0.7	U0.2	U0.3
EW-92	CRAB	NA	1	U0.4	U0.6	U0.7	U0.2	U0.3
EW-92	CRAB	NA	2	U0.4	U0.6	U0.7	U0.2	U0.3
EW-92	CRAB	NA	Mean	U0.4	U0.6	U0.7	U0.2	U0.3
NG-91	2 -M	08/25/86	1	U0.4	U0.6	U0.7	U0.2	U0.3
NG-91	2 -M	08/25/86	2	U0.4	U0.6	U0.7	U0.2	U0.3
NG-91	2 -M	08/25/86	Mean	U0.4	U0.6	U0.7	U0.2	U0.3
NG-91	3 -M	08/25/86		U0.4	U0.6	U0.7	U0.2	U0.3
NG-91	19 -M	08/25/86		U0.4	U0.6	U0.7	U0.2	U0.3
NG-91	42 -M	08/25/86		U0.4	U0.6	U0.7	U0.2	U0.3
NG-91	48 -M	08/25/86		U0.4	U0.6	U0.7	U0.2	U0.3
NG-91	CRAB	08/25/86	1	U0.4	U0.6	U0.7	U0.2	U0.3
NG-91	CRAB	08/25/86	2	U0.4	U0.6	U0.7	U0.2	U0.3
NG-91	CRAB	08/25/86	Mean	U0.4	U0.6	U0.7	U0.2	U0.3
NG-92	61 -M	08/25/86	1	U0.4	U0.6	U0.7	U0.2	U0.3
NG-92	61 -M	08/25/86	2	U0.4	U0.6	U0.7	U0.2	U0.3
NG-92	61 -M	08/25/86	Mean	U0.4	U0.6	U0.7	U0.2	U0.3
NG-92	70 -M	08/25/86		U0.4	U0.6	U0.7	U0.2	U0.3
NG-92	81 -M	08/25/86		U0.4	U0.6	U0.7	U0.2	U0.3
NG-92	97 -M	08/25/86		U0.4	U0.6	U0.7	U0.2	U0.3
NG-92	111 -M	08/25/86		U0.4	U0.6	U0.7	U0.2	U0.3
NG-92	CRAB	NA	1	U0.4	U0.6	U0.7	U0.2	U0.3
NG-92	CRAB	NA	2	U0.4	U0.6	U0.7	U0.2	U0.3
NG-92	CRAB	NA	Mean	U0.4	U0.6	U0.7	U0.2	U0.3
NG-93	131 -M	08/26/86		U0.4	U0.6	U0.7	U0.2	U0.3
NG-93	133 -M	08/26/86		U0.4	U0.6	U0.7	U0.2	U0.3
NG-93	143 -M	08/26/86		U0.4	U0.6	U0.7	U0.2	U0.3
NG-93	161 -M	08/26/86		U0.4	U0.6	U0.7	U0.2	U0.3
NG-93	173 -M	08/26/86		U0.4	U0.6	U0.7	U0.2	U0.3

TABLE B-29. (Continued)

Station	Sample	Sampling Date	Rep	alpha-HCH	beta-HCH	delta-HCH	gamma-HCH (lindane)	chlordan-
EW-91	492 -M	08/28/86		U0.1	U0.4	U0.4	U0.2	U3.4
EW-91	503 -M	08/28/86		U0.1	U0.4	U0.4	U0.2	U3.4
EW-91	514 -M	08/28/86		U0.1	U0.4	U0.4	U0.2	U3.4
EW-91	518 -M	08/29/86		U0.1	U0.4	U0.4	U0.2	U3.4
EW-91	527 -M	08/29/86		U0.1	U0.4	U0.4	U0.2	U3.4
EW-91	CRAB	NA	1	U0.1	U0.4	U0.4	U0.2	U3.4
EW-91	CRAB	NA	2	U0.1	U0.4	U0.4	U0.2	U3.4
EW-91	CRAB	NA	Mean	U0.1	U0.4	U0.4	U0.2	U3.4
EW-91	CRAB2	NA		U0.1	U0.4	U0.4	U0.2	U3.4
EW-91	CRAB3	NA		U0.1	U0.4	U0.4	U0.2	U3.4
EW-92	311 -M	08/27/86	1	U0.1	U0.4	U0.4	U0.2	U3.4
EW-92	311 -M	08/27/86	2	U0.1	U0.4	U0.4	U0.2	U3.4
EW-92	311 -M	08/27/86	Mean	U0.1	U0.4	U0.4	U0.2	U3.4
EW-92	318 -M	08/27/86		U0.1	U0.4	U0.4	U0.2	U3.4
EW-92	325 -M	08/27/86		U0.1	U0.4	U0.4	U0.2	U3.4
EW-92	340 -M	08/27/86		U0.1	U0.4	U0.4	U0.2	U3.4
EW-92	350 -M	08/27/86		U0.1	U0.4	U0.4	U0.2	U3.4
EW-92	CRAB	NA	1	U0.1	U0.4	U0.4	U0.2	U3.4
EW-92	CRAB	NA	2	U0.1	U0.4	U0.4	U0.2	U3.4
EW-92	CRAB	NA	Mean	U0.1	U0.4	U0.4	U0.2	U3.4
NG-91	2 -M	08/25/86	1	U0.1	U0.4	U0.4	U0.2	U3.4
NG-91	2 -M	08/25/86	2	U0.1	U0.4	U0.4	U0.2	U3.4
NG-91	2 -M	08/25/86	Mean	U0.1	U0.4	U0.4	U0.2	U3.4
NG-91	3 -M	08/25/86		U0.1	U0.4	U0.4	U0.2	U3.4
NG-91	19 -M	08/25/86		U0.1	U0.4	U0.4	U0.2	U3.4
NG-91	42 -M	08/25/86		U0.1	U0.4	U0.4	U0.2	U3.4
NG-91	48 -M	08/25/86		U0.1	U0.4	U0.4	U0.2	U3.4
NG-91	CRAB	08/25/86	1	U0.1	U0.4	U0.4	U0.2	U3.4
NG-91	CRAB	08/25/86	2	U0.1	U0.4	U0.4	U0.2	U3.4
NG-91	CRAB	08/25/86	Mean	U0.1	U0.4	U0.4	U0.2	U3.4
NG-92	61 -M	08/25/86	1	U0.1	U0.4	U0.4	U0.2	U3.4
NG-92	61 -M	08/25/86	2	U0.1	U0.4	U0.4	U0.2	U3.4
NG-92	61 -M	08/25/86	Mean	U0.1	U0.4	U0.4	U0.2	U3.4
NG-92	70 -M	08/25/86		U0.1	U0.4	U0.4	U0.2	U3.4
NG-92	81 -M	08/25/86		U0.1	U0.4	U0.4	U0.2	U3.4
NG-92	97 -M	08/25/86		U0.1	U0.4	U0.4	U0.2	U3.4
NG-92	111 -M	08/25/86		U0.1	U0.4	U0.4	U0.2	U3.4
NG-92	CRAB	NA	1	U0.1	U0.4	U0.4	U0.2	U3.4
NG-92	CRAB	NA	2	U0.1	U0.4	U0.4	U0.2	U3.4
NG-92	CRAB	NA	Mean	U0.1	U0.4	U0.4	U0.2	U3.4
NG-93	131 -M	08/26/86		E0.2	U0.4	U0.4	U0.2	U3.4
NG-93	133 -M	08/26/86		U0.1	U0.4	U0.4	U0.2	U3.4
NG-93	143 -M	08/26/86		E0.3	U0.4	U0.4	U0.2	U3.4
NG-93	161 -M	08/26/86		U0.1	U0.4	U0.4	U0.2	U3.4
NG-93	173 -M	08/26/86		U0.1	U0.4	U0.4	U0.2	U3.4

TABLE B-29. (Continued)

Station	Sample	Sampling Date	Rep	endrin	endrin-aldehyde	hepta-chlor	total PCBs
EW-91	492 -M	08/28/86		U0.7	U0.8	U0.2	G42
EW-91	503 -M	08/28/86		U0.7	U0.8	U0.2	G25
EW-91	514 -M	08/28/86		U0.7	U0.8	U0.2	G16
EW-91	518 -M	08/29/86		U0.7	U0.8	U0.2	G13
EW-91	527 -M	08/29/86		U0.7	U0.8	U0.2	G18
EW-91	CRAB	NA	1	U0.7	U0.8	U0.2	EG5
EW-91	CRAB	NA	2	U0.7	U0.8	U0.2	EG9
EW-91	CRAB	NA	Mean	U0.7	U0.8	U0.2	EG7
EW-91	CRAB2	NA		U0.7	U0.8	U0.2	EG10
EW-91	CRAB3	NA		U0.7	U0.8	U0.2	G3
EW-92	311 -M	08/27/86	1	U0.7	U0.8	U0.2	G42
EW-92	311 -M	08/27/86	2	U0.7	U0.8	U0.2	G19
EW-92	311 -M	08/27/86	Mean	U0.7	U0.8	U0.2	G30
EW-92	318 -M	08/27/86		U0.7	U0.8	U0.2	G63
EW-92	325 -M	08/27/86		U0.7	U0.8	U0.2	G20
EW-92	340 -M	08/27/86		U0.7	U0.8	U0.2	G20
EW-92	350 -M	08/27/86		U0.7	U0.8	U0.2	G19
EW-92	CRAB	NA	1	U0.7	U0.8	U0.2	G11
EW-92	CRAB	NA	2	U0.7	U0.8	U0.2	G17
EW-92	CRAB	NA	Mean	U0.7	U0.8	U0.2	G14
NG-91	2 -M	08/25/86	1	U0.7	U0.8	U0.2	G100
NG-91	2 -M	08/25/86	2	U0.7	U0.8	U0.2	G28
NG-91	2 -M	08/25/86	Mean	U0.7	U0.8	U0.2	G64
NG-91	3 -M	08/25/86		U0.7	U0.8	U0.2	G30
NG-91	19 -M	08/25/86		U0.7	U0.8	U0.2	EG36
NG-91	42 -M	08/25/86		U0.7	U0.8	U0.2	EG25
NG-91	48 -M	08/25/86		U0.7	U0.8	U0.2	EG20
NG-91	CRAB	08/25/86	1	U0.7	U0.8	U0.2	G12
NG-91	CRAB	08/25/86	2	U0.7	U0.8	U0.2	G12
NG-91	CRAB	08/25/86	Mean	U0.7	U0.8	U0.2	G12
NG-92	61 -M	08/25/86	1	U0.7	U0.8	U0.2	EG72
NG-92	61 -M	08/25/86	2	U0.7	U0.8	U0.2	G21
NG-92	61 -M	08/25/86	Mean	U0.7	U0.8	U0.2	EG46
NG-92	70 -M	08/25/86		U0.7	U0.8	U0.2	EG91
NG-92	81 -M	08/25/86		U0.7	U0.8	U0.2	EG37
NG-92	97 -M	08/25/86		U0.7	U0.8	U0.2	EG27
NG-92	111 -M	08/25/86		U0.7	U0.8	U0.2	G12
NG-92	CRAB	NA	1	U0.7	U0.8	U0.2	G21
NG-92	CRAB	NA	2	U0.7	U0.8	U0.2	G26
NG-92	CRAB	NA	Mean	U0.7	U0.8	U0.2	G24
NG-93	131 -M	08/26/86		U0.7	U0.8	U0.2	G37
NG-93	133 -M	08/26/86		U0.7	U0.8	U0.2	G21
NG-93	143 -M	08/26/86		U0.7	U0.8	U0.2	G21
NG-93	161 -M	08/26/86		U0.7	U0.8	U0.2	EG10
NG-93	173 -M	08/26/86		U0.7	U0.8	U0.2	EG9
NG-93	CRAB	NA		U0.7	U0.8	U0.2	EG4

APPENDIX C

CORRELATION MATRICES FOR SELECTED CHEMICALS

LPAH correlations including all stations (detected data only)

Correlations:	NAPHLN	ACENY	ACENE	FLUORENE	PHNTH	ANTHR
NAPHLN		.6916 (39) P= .000	.8118 (43) P= .000	.7435 (23) P= .000	.7250 (42) P= .000	.6366 (44) P= .000
ACENY			.8606 (39) P= .000	.8594 (23) P= .000	.8280 (40) P= .000	.7743 (40) P= .000
ACENE				.9926 (24) P=0.0	.8648 (41) P= .000	.9090 (44) P= .000
FLUORENE					.8257 (24) P= .000	.9277 (24) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" ." is printed if a coefficient cannot be computed

Correlations:	NAPHLN	ACENY	ACENE	FLUORENE	PHNTH	ANTHR
PHNTH						.6214 (47) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" ." is printed if a coefficient cannot be computed

APPENDIX D

SUMMARY OF AMPHIPOD BIOASSAY DATA

APPENDIX D. SUMMARY OF AMPHIPOD BIOASSAY DATA

Station	Date	Control Sample Number	Bioassay Run Number	Initial Number	Final Number	Percent Mortality
ES-01	10/06/86	CONTB	2	20	20	0.0
ES-01	10/06/86	CONTB	2	20	17	15.0
ES-01	10/06/86	CONTB	2	20	17	15.0
ES-01	10/06/86	CONTB	2	20	20	0.0
ES-01	10/06/86	CONTB	2	20	16	20.0
ES-02	10/06/86	CONTB	2	20	17	15.0
ES-02	10/06/86	CONTB	2	20	19	5.0
ES-02	10/06/86	CONTB	2	20	19	5.0
ES-02	10/06/86	CONTB	2	20	18	10.0
ES-02	10/06/86	CONTB	2	20	15	25.0
ES-03	10/06/86	CONTB	2	20	20	0.0
ES-03	10/06/86	CONTB	2	20	17	15.0
ES-03	10/06/86	CONTB	2	20	17	15.0
ES-03	10/06/86	CONTB	2	20	16	20.0
ES-03	10/06/86	CONTB	2	20	15	25.0
EW-01	10/07/86	CONTB	2	20	0	100.00
EW-01	10/07/86	CONTB	2	20	0	100.00
EW-01	10/07/86	CONTB	2	20	0	100.00
EW-01	10/07/86	CONTB	2	20	0	100.00
EW-01	10/07/86	CONTB	2	20	0	100.00
EW-04	09/30/86	CONTB	2	20	1	95.0
EW-04	09/30/86	CONTB	2	20	0	100.00
EW-04	09/30/86	CONTB	2	20	0	100.00
EW-04	09/30/86	CONTB	2	20	0	100.00
EW-04	09/30/86	CONTB	2	20	0	100.00
EW-07	09/30/86	CONTA	1	20	0	100.00
EW-07	09/30/86	CONTA	1	20	1	95.0
EW-07	09/30/86	CONTA	1	20	0	100.00
EW-07	09/30/86	CONTA	1	20	12	40.0
EW-07	09/30/86	CONTA	1	20	15	25.0
EW-07	09/30/86	CONTA	1	20	8	60.0
EW-07	09/30/86	CONTA	1	20	7	65.0
EW-07	09/30/86	CONTA	1	20	8	60.0
EW-07	09/30/86	CONTA	1	20	2	90.0
EW-07	09/30/86	CONTA	1	20	0	100.00
EW-10	10/01/86	CONTA	1	20	0	100.00
EW-10	10/01/86	CONTA	1	20	14	30.0
EW-10	10/01/86	CONTA	1	20	18	10.0
EW-10	10/01/86	CONTA	1	20	0	100.00
EW-10	10/01/86	CONTA	1	20	13	35.0
EW-12	10/01/86	CONTB	2	20	17	15.0
EW-12	10/01/86	CONTB	2	20	18	10.0
EW-12	10/01/86	CONTB	2	20	18	10.0
EW-12	10/01/86	CONTB	2	20	16	20.0
EW-12	10/01/86	CONTB	2	20	18	10.0

APPENDIX D. (CONTINUED)

Station	Date	Control Sample Number	Bioassay Run Number	Initial Number	Final Number	Percent Mortality
NG-06	10/08/86	CONTC	3	20	9	55.0
NG-06	10/08/86	CONTC	3	20	10	50.0
NG-06	10/08/86	CONTC	3	20	10	50.0
NG-06	10/08/86	CONTC	3	20	13	35.0
NG-06	10/08/86	CONTC	3	20	15	25.0
NG-10	10/03/86	CONTB	2	20	18	10.0
NG-10	10/03/86	CONTB	2	20	19	5.0
NG-10	10/03/86	CONTB	2	20	20	0.0
NG-10	10/03/86	CONTB	2	20	19	5.0
NG-10	10/03/86	CONTB	2	20	19	5.0
NG-12	10/15/86	CONTD	4	20	20	0.0
NG-12	10/15/86	CONTD	4	20	20	0.0
NG-12	10/15/86	CONTD	4	20	20	0.0
NG-12	10/15/86	CONTD	4	20	20	0.0
NG-12	10/15/86	CONTD	4	20	18	10.0
NG-13	10/15/86	CONTD	4	20	20	0.0
NG-13	10/15/86	CONTD	4	20	19	5.0
NG-13	10/15/86	CONTD	4	20	18	10.0
NG-13	10/15/86	CONTD	4	20	18	10.0
NG-13	10/15/86	CONTD	4	20	19	5.0
NG-14	10/15/86	CONTD	4	20	18	10.0
NG-14	10/15/86	CONTD	4	20	20	0.0
NG-14	10/15/86	CONTD	4	20	20	0.0
NG-14	10/15/86	CONTD	4	20	18	10.0
NG-14	10/15/86	CONTD	4	20	19	5.0
NG-15	10/15/86	CONTD	4	20	19	5.0
NG-15	10/15/86	CONTD	4	20	20	0.0
NG-15	10/15/86	CONTD	4	20	20	0.0
NG-15	10/15/86	CONTD	4	20	20	0.0
NG-15	10/15/86	CONTD	4	20	20	0.0
OG-03	10/09/86	CONTC	3	20	2	90.0
OG-03	10/09/86	CONTC	3	20	7	65.0
OG-03	10/09/86	CONTC	3	20	10	50.0
OG-03	10/09/86	CONTC	3	20	17	15.0
OG-03	10/09/86	CONTC	3	20	6	70.0
PS-02	10/13/86	CONTC	3	20	12	40.0
PS-02	10/13/86	CONTC	3	20	16	20.0
PS-02	10/13/86	CONTC	3	20	13	35.0
PS-02	10/13/86	CONTC	3	20	14	30.0
PS-02	10/13/86	CONTC	3	20	16	20.0
PS-03	10/13/86	CONTC	3	20	15	25.0
PS-03	10/13/86	CONTC	3	20	12	40.0
PS-03	10/13/86	CONTC	3	20	17	15.0
PS-03	10/13/86	CONTC	3	20	17	15.0
PS-03	10/13/86	CONTC	3	20	15	25.0

APPENDIX D. (CONTINUED)

Station	Date	Control Sample Number	Bioassay Run Number	Initial Number	Final Number	Percent Mortality
SS-03	10/06/86	CONTA	1	20	16	20.0
SS-03	10/06/86	CONTA	1	20	18	10.0
SS-03	10/06/86	CONTA	1	20	17	15.0
SS-03	10/06/86	CONTA	1	20	17	15.0
SS-03	10/06/86	CONTA	1	20	17	15.0
SS-03	10/06/86	CONTB	2	20	18	10.0
SS-03	10/06/86	CONTB	2	20	20	0.0
SS-03	10/06/86	CONTB	2	20	18	10.0
SS-03	10/06/86	CONTB	2	20	20	0.0
SS-03	10/06/86	CONTB	2	20	18	10.0

APPENDIX E

SUMMARY OF BENTHIC STATION SEDIMENT GRAIN SIZE
AND CONVENTIONAL DATA

TABLES

<u>Number</u>		<u>Page</u>
E-1	Sediment grain size characteristics at benthic stations in Port Susan and Everett Harbor	E-1
E-2	Conventional sediment characteristics at benthic stations in Port Susan and Everett Harbor	E-2

TABLE E-1. SEDIMENT GRAIN SIZE CHARACTERISTICS AT BENTHIC STATIONS
IN PORT SUSAN AND EVERETT HARBOR

Station	Percent Grain Size							
	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay
PS-02	0.1	0.3	3.7	36.6	36.3	11.5	2.3	9.2
PS-03	0.1	1.9	9.8	36.3	35.9	8.0	1.2	6.8
PS-04	1.2	11.5	16.8	23.2	32.9	7.1	0.7	6.7
NG-01	0.1	0.7	7.4	34.6	44.4	8.4	0.8	3.6
NG-02	1.8	7.4	35.3	40.8	9.6	2.1	0.3	2.8
NG-03	0.0	4.3	25.9	49.4	15.8	1.8	0.0	2.7
NG-04	0.1	3.0	19.9	38.3	31.3	3.7	0.7	2.9
NG-06	0.5	1.2	8.0	30.0	35.9	17.3	1.4	5.7
NG-10	11.8	6.1	20.9	26.8	25.3	4.9	1.0	3.2
EW-01	0.1	0.1	0.5	2.5	6.4	11.5	33.2	45.5
EW-04	18.0	3.2	6.0	3.0	3.6	7.3	4.2	54.7
EW-07	2.7	2.0	5.0	10.0	7.4	16.1	24.6	32.1
EW-10	3.4	0.3	1.4	3.6	4.6	9.6	36.7	40.4
EW-12	0.6	0.5	4.0	47.6	34.9	4.2	2.2	5.9
EW-14	38.0	4.2	9.3	5.2	4.4	6.6	19.6	12.6
SD-01	12.3	7.2	17.9	41.6	15.2	1.2	0.4	4.2
SD-02	0.0	0.1	2.1	14.4	55.8	16.1	5.7	5.8
SR-07	0.2	0.0	0.1	0.5	0.6	3.2	58.8	36.6
SR-08	5.3	0.6	2.9	28.1	25.0	16.0	13.2	8.9

APPENDIX F

ABUNDANCES OF MAJOR TAXA OF BENTHIC INFAUNA, AND
BENTHIC INFAUNA DATA BY STATION AND REPLICATE

FIGURES

<u>Number</u>		<u>Page</u>
F-1	Mean abundance/m ² of total benthic infauna at each benthic station in Everett Harbor and Port Susan	F-4
F-2	Mean abundance/m ² of polychaetes at each benthic station in Everett Harbor and Port Susan	F-5
F-3	Mean abundance/m ² of pelecypods at each benthic station in Everett Harbor and Port Susan	F-6
F-4	Mean abundance/m ² of gastropods at each benthic station in Everett Harbor and Port Susan	F-7
F-5	Mean abundance/m ² of total crustaceans at each benthic station in Everett Harbor and Port Susan	F-8
F-6	Mean abundance/m ² of crustaceans excluding amphipods at each benthic station in Everett Harbor and Port Susan	F-9
F-7	Mean abundance/m ² of amphipods at each benthic station in Everett Harbor and Port Susan	F-10
F-8	Mean abundance/m ² of echinoderms at each benthic station in Everett Harbor and Port Susan	F-11
F-9	Mean abundance/m ² of miscellaneous taxa at each benthic station in Everett Harbor and Port Susan	F-12

TABLES

<u>Number</u>		<u>Page</u>
F-1	Abundances of major taxa of benthic infauna	F-1
F-2	Benthic infauna data by station and replicate	F-13

TABLE F-1. ABUNDANCES OF MAJOR TAXA OF BENTHIC INFAUNA

Station	Rep	Total				Other				Total
		Polychaetes	Pelecypods	Gastropods	Crustaceans	Amphipods	Crustaceans	Echinoderms	Misc Taxa	
EW-01	V1	35	0	0	3	0	3	0	46	84
EW-01	V2	31	0	0	25	0	25	0	87	143
EW-01	V3	25	0	0	1	0	1	0	14	40
EW-01	V4	106	0	0	1	0	1	0	47	154
EW-01	V5	41	1	1	1	0	1	0	116	160
EW-04	V1	1202	2	0	37	14	23	0	142	1383
EW-04	V2	1967	6	2	432	74	358	0	848	3255
EW-04	V3	1530	4	0	162	19	143	0	855	2551
EW-04	V4	909	2	1	23	7	16	0	291	1226
EW-04	V5	1623	1	1	128	17	111	0	170	1923
EW-07	V1	19	5	0	7	7	0	0	16	47
EW-07	V2	27	1	0	62	26	36	0	6	96
EW-07	V3	18	6	1	42	14	28	0	16	83
EW-07	V4	20	9	0	8	2	6	0	24	61
EW-07	V5	26	6	1	10	6	4	0	37	80
EW-10	V1	1453	17	6	381	34	347	0	31	1888
EW-10	V2	959	18	38	672	142	530	0	24	1711
EW-10	V3	442	7	2	132	65	67	0	395	978
EW-10	V4	467	31	13	123	53	70	0	192	826
EW-10	V5	793	25	35	417	152	265	0	116	1386
EW-12	V1	135	99	107	1526	444	1082	0	8	1875
EW-12	V2	73	49	8	623	272	351	0	5	758
EW-12	V3	83	78	160	1359	310	1049	1	13	1694
EW-12	V4	80	67	20	1229	280	949	1	2	1399
EW-12	V5	67	74	38	585	255	330	0	0	764
EW-14	V1	178	51	71	297	161	136	1	195	793
EW-14	V2	52	29	29	71	20	51	0	1	182
EW-14	V3	231	53	32	296	133	163	0	125	737
EW-14	V4	235	37	18	420	244	176	0	44	754
EW-14	V5	93	26	2	166	108	58	0	22	309
NG-01	V1	90	148	7	227	5	222	0	3	475
NG-01	V2	64	145	10	137	5	132	0	0	356
NG-01	V3	209	214	14	263	7	256	0	6	706
NG-01	V4	78	120	8	219	7	212	0	1	426
NG-01	V5	55	190	7	114	6	108	0	2	368
NG-02	V1	49	39	5	129	1	128	0	6	228
NG-02	V2	70	71	3	130	4	126	0	10	284
NG-02	V3	51	81	1	170	2	168	0	3	306
NG-02	V4	58	94	3	130	4	126	0	7	292
NG-02	V5	49	52	2	123	1	122	0	3	229
NG-03	V1	17	565	39	206	5	201	0	1	828
NG-03	V2	87	651	54	284	25	259	0	11	1087
NG-03	V3	72	411	26	283	32	251	0	6	798
NG-03	V4	77	522	37	253	21	232	0	6	895
NG-03	V5	57	582	39	291	26	265	0	0	969
NG-04	V1	37	275	102	201	16	185	0	0	615

TABLE F-1. (CONTINUED)

Station	Rep	Total				Other			Misc	Taxa	Total
		Polychaetes	Pelecypods	Gastropods	Crustaceans	Amphipods	Crustaceans	Echinoderms			
SR-08	V3	127	88	7	278	93	185	0	31	531	
SR-08	V4	96	46	9	222	132	90	0	12	385	
SR-08	V5	128	38	5	210	94	116	0	41	422	

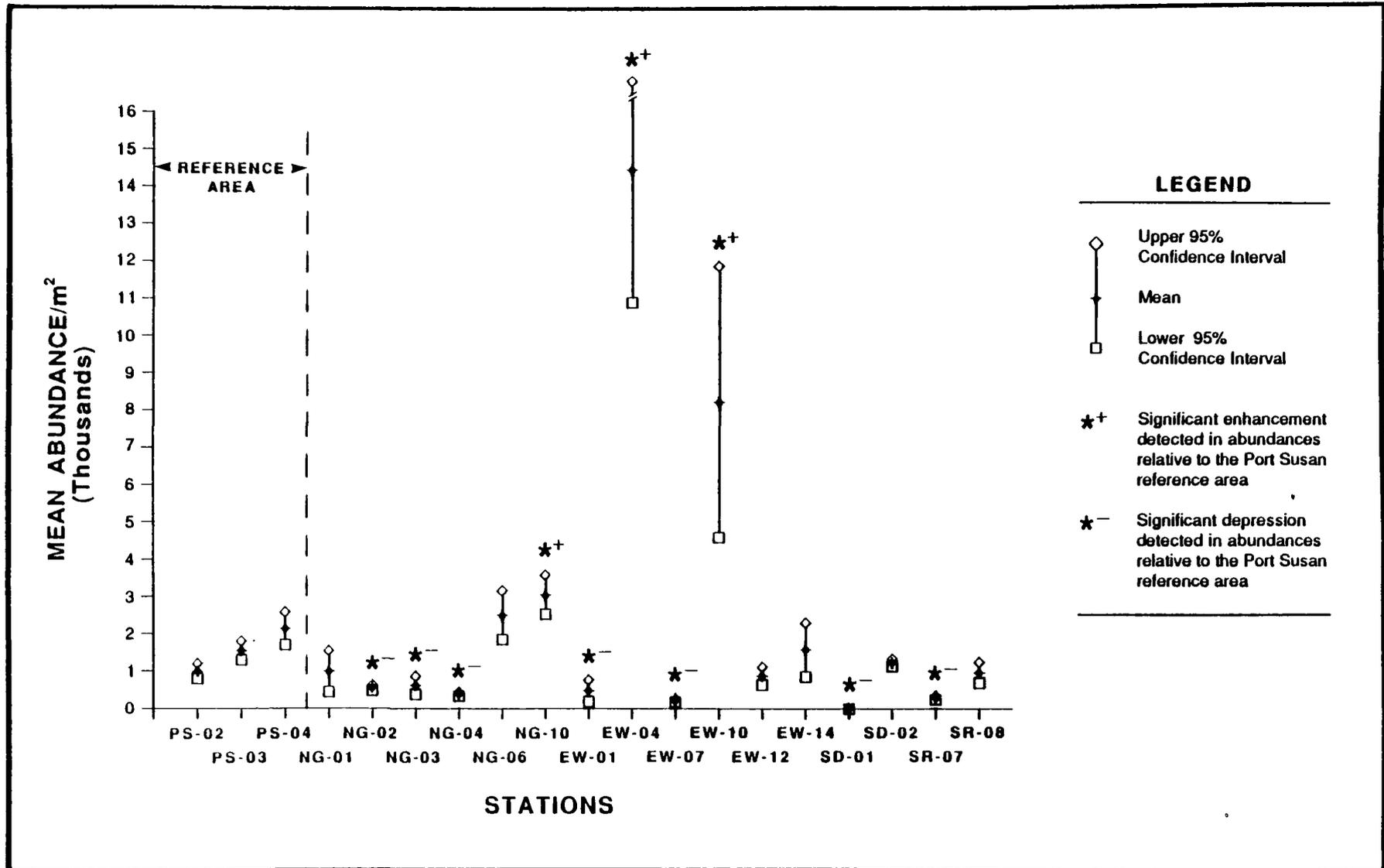


Figure F-2. Mean abundance/m² of polychaetes at each benthic station in Everett Harbor and Port Susan.

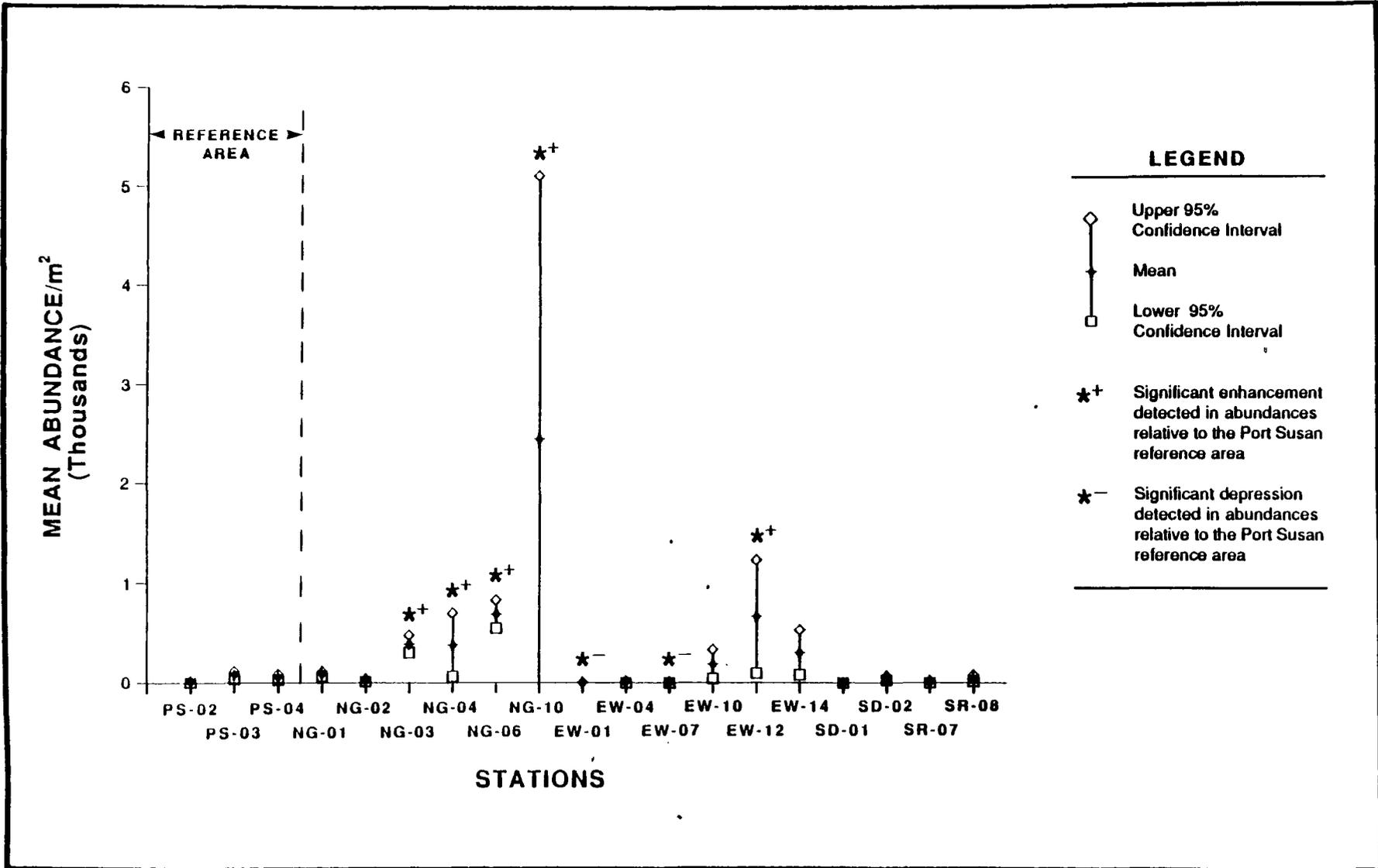


Figure F-4. Mean abundance/m² of gastropods at each benthic station in Everett Harbor and Port Susan.

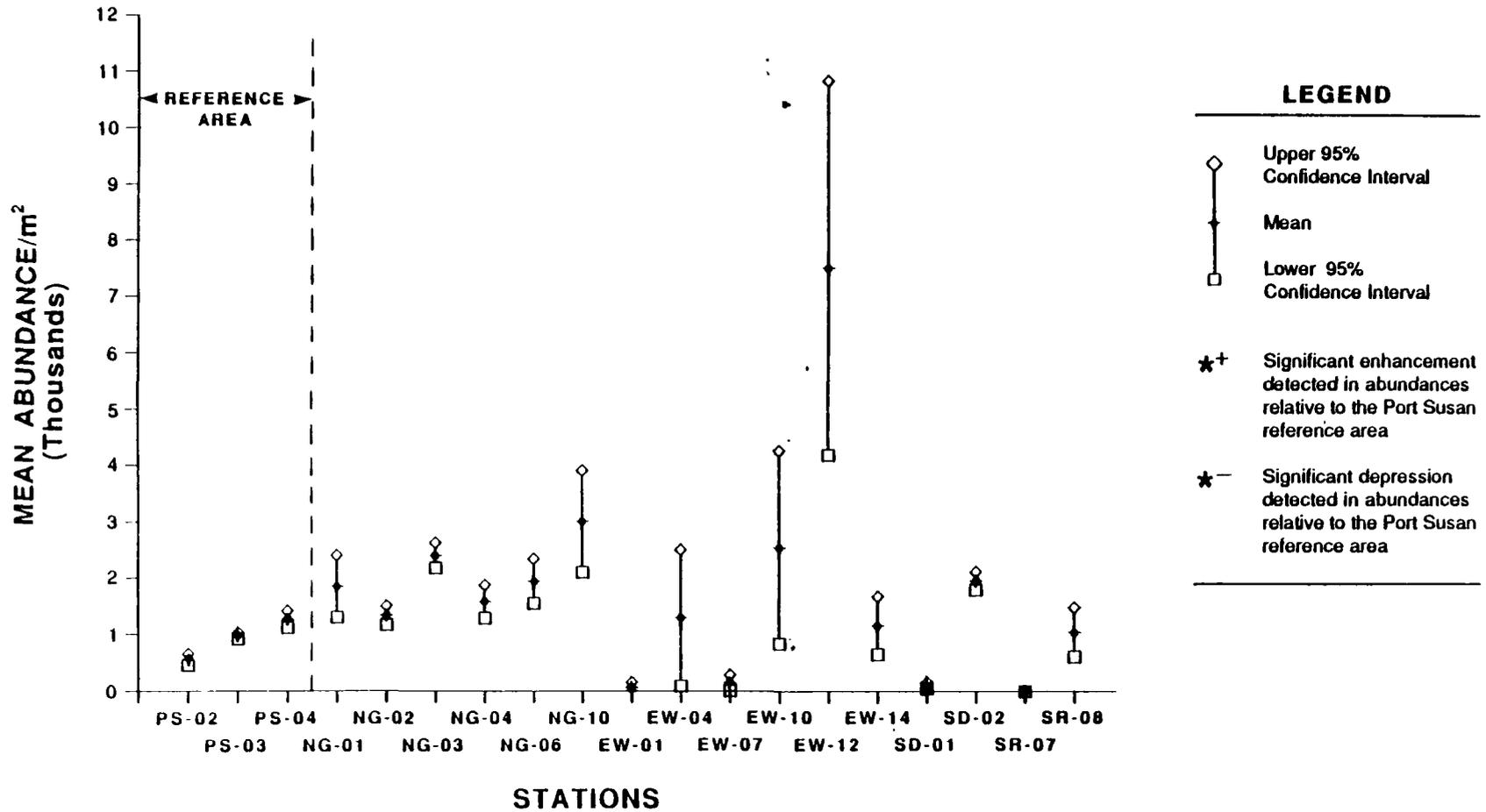


Figure F-6. Mean abundance/m² of crustaceans excluding amphipods at each benthic station in Everett Harbor and Port Susan.

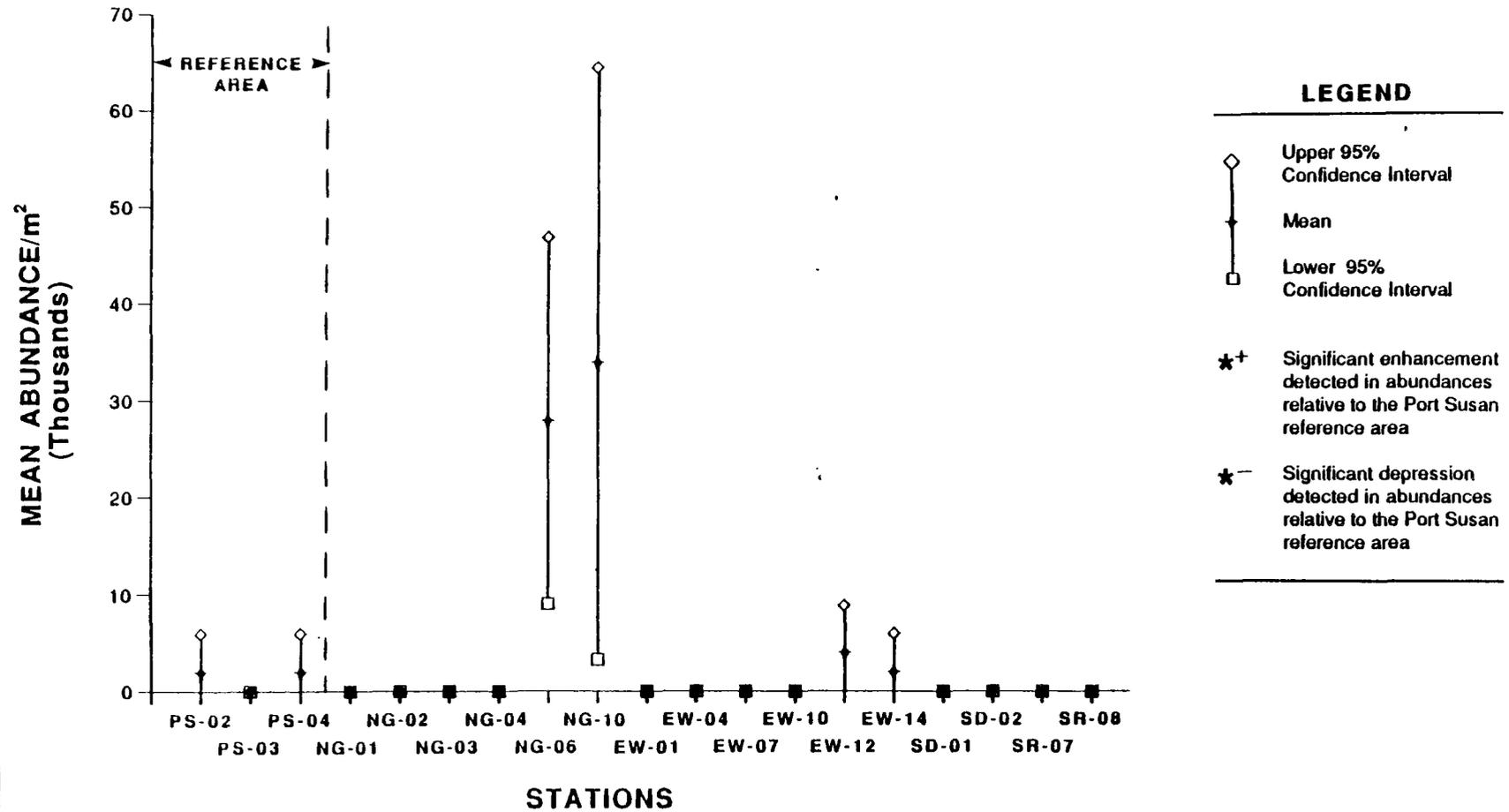


Figure F-8. Mean abundance/m² of echinoderms at each benthic station in Everett Harbor and Port Susan.

TABLE F-2. BENTHIC INFAUNA DATA BY STATION AND REPLICATE

Station	NODC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total	
EW-01	47	Nematoda	46	87	14	47	116	310	
	5001240501	Platynereis bicanaliculata	0	6	0	0	1	7	
	5001600101	Capitella capitata	35	25	25	106	40	231	
	5110070101	Gastropteron pacificum	0	0	0	0	1	1	
	55153101	Macoma spp.	0	0	0	0	1	1	
	6134020104	Balanus crenatus	0	2	0	0	0	2	
	61450101	Nebalia spp.	2	23	0	0	0	25	
	61570201	Leptochelia spp.	1	0	0	0	0	1	
	6161020301	Gnorimosphaeroma oregonensis	0	0	0	1	0	1	
	6161050102	Limnoria algarum	0	0	1	0	1	2	
			84	143	40	154	160	581	Sum
			8	14	4	15	16	58	Ave
			293	746	74	1230	1389	12932	Var
			0	0	0	0	0	1	Min
			46	87	25	106	116	310	Max

Number of Observations: 10

TABLE F-2. (CONTINUED)

Station	NODC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total	
EW-07	47	Nematoda	15	5	15	23	37	95	
	50011302	Eteone spp.	1	0	0	0	1	2	
	5001130205	Eteone longa	0	0	0	1	1	2	
	5001210102	Gyptis brevipalpa	0	0	0	1	0	1	
	5001210801	Micropodarke dubia	1	0	0	0	0	1	
	5001240301	Nereis brandti	0	1	0	1	0	2	
	5001240404	Nereis procera	0	1	0	1	0	2	
	5001240501	Platynereis bicanaliculata	0	10	2	0	0	12	
	5001250103	Nephtys caeca	0	0	1	0	0	1	
	50014305	Prionospio spp.	0	0	1	0	0	1	
	5001430599	Prionospio multibranchiata	0	0	0	2	0	2	
	5001580202	Armandia brevis	0	2	3	6	1	12	
	5001600101	Capitella capitata	17	13	10	8	23	71	
	50016807	Pista spp.	0	0	1	0	0	1	
	5004	Oligochaeta	1	1	1	1	0	4	
	51032001	Alvania spp.	0	0	1	0	1	2	
	5515310102	Macoma elimata	1	0	3	0	3	7	
	5515310112	Macoma carlottensis	1	0	0	1	0	2	
	5515310114	Macoma nasuta	3	1	3	6	3	16	
	5517010101	Cryptomya californica	0	0	0	2	0	2	
	6111070301	Euphilomedes carcharodonta	0	1	0	0	0	1	
	61340201	Balanus spp.	0	6	3	0	0	9	
	6134020104	Balanus crenatus	0	15	17	0	2	34	
	61450101	Nebalia spp.	0	4	8	1	1	14	
	6154050101	Diastylis alaskensis	0	0	0	2	1	3	
	6157020103	Leptochelia dubia	0	1	0	0	0	1	
	61690602	Aoroides spp	2	4	4	2	0	12	
	6169060204	Aoroides spinosus	5	18	8	0	4	35	
	6169210106	Anisogammarus pugettensis	0	1	0	0	0	1	
	6169211003	Melita dentata	0	1	0	0	0	1	
	6169211008	Melita desdichada	0	1	0	0	0	1	
	61692602	Photis spp.	0	1	2	0	2	5	
	617916	Hippolytidae	0	3	0	0	0	3	
	61791605	Heptacarpus spp.	0	4	0	0	0	4	
	61792201	Crangon spp.	0	0	0	1	0	1	
	61880301	Cancer spp.	0	2	0	0	0	2	
	6188030105	Cancer gracilis	0	0	0	1	0	1	
	61890604	Pinnixa spp.	0	0	0	1	0	1	
			47	96	83	61	80	367	Sum
			1	3	2	2	2	10	Ave
			13	19	17	16	48	379	Var
			0	0	0	0	0	1	Min
			17	18	17	23	37	95	Max

Number of Observations: 38

TABLE F-2. (CONTINUED)

Station	NOOC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total	
EW-10	6169210106	Anisogammarus pugettensis	0	0	1	0	0	1	
	61692110	Melita spp.	1	0	0	0	4	5	
	6169211003	Melita dentata	2	2	1	0	11	16	
	6169211005	Melita californica	5	38	5	1	32	81	
	6169211008	Melita desdichada	2	11	1	3	17	34	
	6169240204	Hyale plumulosa	0	0	1	0	0	1	
	61692602	Photis spp.	0	0	3	0	0	3	
	6169260201	Photis brevipes	0	0	0	7	1	8	
	6169371402	Synchelidium shoemakeri	0	0	0	1	0	1	
	6169420602	Metaphoxus fultoni	0	1	0	0	0	1	
	6169421504	Rhepoxynius abronius	0	1	0	0	0	1	
	617916	Hippolytidae	0	5	1	2	3	11	
	6179160408	Eualus pusiolus	0	4	0	1	0	5	
	61791605	Heptacarpus spp.	0	0	0	0	1	1	
	6179160511	Heptacarpus stimpsoni	0	0	0	0	1	1	
	6179180107	Pandalus danae	0	1	0	0	0	1	
	61880301	Cancer spp.	0	2	0	0	0	2	
	6188030105	Cancer gracilis	2	0	0	2	0	4	
	618902010102	Lophopanopeus bellus diegensis	0	0	0	0	2	2	
	618906	Pinnotheridae	1	0	0	0	0	1	
			1888	1711	978	826	1386	6789	Sum
			-27	24	14	12	20	97	Ave
			****	****	4588	3306	8165	*****	Var
			0	0	0	0	0	1	Min
			1347	855	412	443	716	3773	Max

Number of Observations: 70

TABLE F-2. (CONTINUED)

Station	NODC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total
EW-12	5515100102	<i>Mysella tumida</i>	11	10	14	22	9	66
	55152201	<i>Clinocardium</i> spp.	0	0	0	0	17	17
	5515220102	<i>Clinocardium nuttali</i>	4	4	7	7	0	22
	5515310106	<i>Macoma obliqua</i>	36	0	17	7	15	75
	5515310114	<i>Macoma nasuta</i>	25	17	7	12	15	76
	5515310116	<i>Macoma balthica</i>	0	8	0	0	0	8
	5515310204	<i>Tellina modesta</i>	0	0	1	1	1	3
	5515470201	<i>Saxidomus giganteus</i>	5	1	13	4	1	24
	5515470701	<i>Protothaca staminea</i>	4	1	3	2	0	10
	5517010201	<i>Mya arenaria</i>	1	4	3	2	2	12
	5518020101	<i>Bankia setacea</i>	0	0	0	0	1	1
	6111070301	<i>Euphilomedes carcharodonta</i>	25	5	24	17	0	71
	6111070303	<i>Euphilomedes producta</i>	0	0	0	0	26	26
	61340201	<i>Balanus</i> spp.	0	0	7	3	0	10
	6134020104	<i>Balanus crenatus</i>	23	32	0	3	1	59
	61450101	<i>Nebalia</i> spp.	8	0	0	1	0	9
	6151	Mysidacea	0	0	1	0	0	1
	6154050101	<i>Diastylis alaskensis</i>	2	0	1	0	0	3
	6154080102	<i>Cumella vulgaris</i>	6	1	4	0	1	12
	61570201	<i>Leptochelia</i> spp.	148	21	87	89	19	364
	6157020103	<i>Leptochelia dubia</i>	847	282	918	827	257	3131
	6161020301	<i>Gnorimosphaeroma oregonensis</i>	3	0	1	0	1	5
	6161050102	<i>Limnoria algarum</i>	3	6	0	0	8	17
	616312	Munnidae	4	0	0	0	0	4
	61690602	<i>Aoroides</i> spp.	0	2	0	0	0	2
	6169090105	<i>Atylus collingi</i>	0	0	0	1	0	1
	61691502	<i>Corophium</i> spp.	25	24	32	32	25	138
	6169150201	<i>Corophium acherusicum</i>	40	41	22	34	33	170
	6169150999	<i>Grandidierella japonica</i>	0	0	2	0	0	2
	6169210106	<i>Anisogammarus pugettensis</i>	0	33	1	4	1	39
	61692110	<i>Melita</i> spp.	7	0	0	0	0	7
	6169211003	<i>Melita dentata</i>	0	2	0	0	0	2
	6169211005	<i>Melita californica</i>	14	7	0	2	0	23
	6169211008	<i>Melita desdichada</i>	32	3	3	3	0	41
	61692602	<i>Photis</i> spp.	62	15	35	36	98	246
	6169260201	<i>Photis brevipes</i>	168	124	153	136	68	649
	616934	Lysianassidae	3	0	3	2	0	8
	6169342904	<i>Orchomene pinquis</i>	28	11	38	17	27	121
	6169371402	<i>Synchelidium shoemakeri</i>	3	0	0	0	0	3
	616942	Phoxocephalidae	2	0	0	0	1	3
	6169420928	<i>Eobrolgus spinosus</i>	60	9	21	13	2	105
	61694303	<i>Parapleustes</i> spp.	0	1	0	0	0	1
	61830402	<i>Callianassa</i> spp.	8	4	4	4	14	34
	61880301	<i>Cancer</i> spp.	3	0	0	2	0	5
	6188030105	<i>Cancer gracilis</i>	1	0	2	2	3	8
	61890604	<i>Pinnixa</i> spp.	1	0	0	1	0	2
	72000201	<i>Golfingia</i> spp.	0	0	1	0	0	1
	8104	Asteroidea	0	0	0	1	0	1
	8129030104	<i>Amphiodia urtica</i>	0	0	1	0	0	1

TABLE F-2. (CONTINUED)

Station NOOC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total
EW-14 39	Platyhelminthes	0	0	1	0	0	1
3906	Polycladida	0	0	0	2	0	2
43020101	Tubulanus spp.	20	0	0	0	0	20
430302	Lineidae	0	0	6	0	0	6
43030202	Cerebratulus spp.	1	0	1	0	0	2
43030205	Micrura spp.	3	0	8	2	0	13
43060501	Amphiporus spp.	0	0	0	1	0	1
43060503	Zygonemertes spp.	1	0	0	0	0	1
430606029999	Tetrastemma sp. A (Everett Harbor only)	1	0	0	0	0	1
47	Nematoda	168	1	108	38	20	335
5001020603	Gattyana cirrosa	0	0	2	0	0	2
5001020806	Harmothoe imbricata	1	0	3	2	0	6
5001020810	Harmothoe lunulata	2	0	0	2	0	4
50010217	Hesperonoe spp.	0	1	0	0	0	1
5001060101	Pholoe minuta	3	0	3	1	0	7
5001130102	Phyllodoce (Anaitides) groenlandica	1	0	2	1	1	5
5001130114	Phyllodoce (Anaitides) williamsi	1	0	0	0	0	1
5001130301	Eulalia viridis	0	0	3	0	0	3
5001130303	Eulalia aviculisetata	1	0	0	0	0	1
5001131402	Phyllodoce (Aponaitides) hartmanae	0	0	0	1	0	1
5001131411	Phyllodoce (Anaitides) cuspidata	3	0	0	0	0	3
5001210102	Gyptis brevipalpa	0	1	1	4	0	6
5001210801	Micropodarke dubia	0	0	2	1	0	3
500121159999	Podarke sp. A (Everett Harbor only)	0	0	0	1	0	1
5001230703	Exogone lourei	0	0	1	0	0	1
5001240201	Cheilonereis spp.	0	0	1	0	0	1
50012404	Nereis spp.	2	0	0	0	1	3
5001240404	Nereis procera	1	0	0	1	0	2
5001240501	Platynereis bicanaliculata	45	6	30	32	23	136
5001250102	Nephtys ciliata	0	0	0	2	0	2
5001270101	Glycera capitata	2	0	2	1	1	6
5001270104	Glycera americana	0	0	0	1	0	1
5001280101	Glycinde picta	0	3	3	5	1	12
5001280103	Glycinde armigera	2	0	0	0	0	2
5001290202	Diopatra ornata	0	0	1	0	0	1
50013101	Lumbrineris spp.	0	0	0	2	0	2
5001310109	Lumbrineris luti	0	0	5	2	0	7
5001310118	Lumbrineris cruzensis	0	0	2	0	0	2
5001310194	Lumbrineris sp. gr. 4	0	0	21	5	0	26
5001310195	Lumbrineris sp. gr. 3	8	2	0	0	4	14
5001310197	Lumbrineris sp. gr. 1	1	1	8	4	1	15
5001360504	Schistomeringos rudolphi	3	0	2	3	1	9
5001360507	Schistomeringos japonica	1	0	0	0	0	1
5001400102	Leitoscoloplos pugettensis	0	0	1	0	0	1
50014305	Prionospio spp.	9	1	2	0	5	17
5001430502	Prionospio cirrifera	36	12	65	107	14	234
5001430506	Prionospio steenstrupi	9	1	14	25	9	58
5001430599	Prionospio multibranchiata	1	3	1	3	5	13
5001431004	Spiophanes berkelyorum	0	0	0	2	0	2
5001490302	Spiochaetopterus costarum	1	0	0	0	1	2

TABLE F-2. (CONTINUED)

Station NOOC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total	
EW-14 6157020103	Leptochelia dubia	1	0	0	1	0	2	
6161050102	Limnoria algarum	1	0	0	0	0	1	
6169	Gammaridea	0	0	1	0	0	1	
616904	Ampithoidae	1	0	0	0	0	1	
61690602	Aoroides spp	31	3	34	25	22	115	
6169060204	Aoroides spinosus	85	7	62	86	69	309	
6169060205	Aoroides exilis	9	0	12	13	10	44	
61691502	Corophium spp.	0	0	0	2	0	2	
6169150201	Corophium acherusicum	0	1	0	0	0	1	
6169150999	Grandidierella japonica	0	0	0	0	1	1	
61692110	Melita spp.	2	0	0	12	0	14	
6169211003	Melita dentata	12	4	6	75	1	98	
6169211005	Melita californica	6	0	3	9	0	18	
6169211008	Melita desdichada	7	4	11	20	2	44	
6169211901	Eogammarus oclairi	0	0	0	0	1	1	
61692602	Photis spp.	5	1	1	1	2	10	
6169342914	Orchomene decipiens	2	0	3	1	0	6	
6169420602	Metaphoxus fultoni	1	0	0	0	0	1	
617916	Hippolytidae	2	0	0	1	0	3	
6179160408	Eualus pusiolus	0	2	0	3	1	6	
61791605	Heptacarpus spp.	0	1	0	0	0	1	
6179160510	Heptacarpus brevirostris	1	0	0	2	0	3	
6179160511	Heptacarpus stimpsoni	0	0	0	2	0	2	
61880301	Cancer spp.	0	0	0	1	0	1	
6188030101	Cancer productus	2	0	1	3	3	9	
6188030105	Cancer gracilis	0	1	0	0	0	1	
6188030106	Cancer oregonensis	20	3	32	29	16	100	
618902010102	Lophopanopeus bellus diegensis	3	5	0	5	2	15	
61890604	Pinnixa spp.	14	5	14	13	3	49	
6189060403	Pinnixa occidentalis	0	0	1	0	0	1	
8149030201	Strongylocentrotus droebachiensis	1	0	0	0	0	1	
84060105	Styela spp.	1	0	0	0	0	1	
		793	183	737	754	310	2777	Sum
		6	1	6	6	2	21	Ave
		384	14	257	304	55	3190	Var
		0	0	0	0	0	1	Min
		168	28	108	115	69	335	Max

Number of Observations: 132

TABLE F-2. (CONTINUED)

Station	NODC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total
NG-01	50016004	Mediomastus spp.	0	0	1	0	0	1
	5001600601	Barantolla americana	0	0	2	0	0	2
	50016309	Praxillella spp.	0	0	0	2	0	2
	5001631	Euclymeninae	1	1	23	1	2	28
	5001660303	Pectinaria granulata	12	11	9	4	4	40
	5001660304	Pectinaria californiensis	1	0	1	0	0	2
	50016702	Ampharete spp.	0	0	1	0	0	1
	5001670401	Lysippe labiata	0	0	2	0	0	2
	5001670801	Asabellides sibirica	1	0	0	0	0	1
	500168	Terebellidae	1	0	0	0	0	1
	50016807	Pista spp.	0	0	3	0	1	4
	5001680701	Pista cristata	0	0	0	2	0	2
	50016808	Polycirrus spp.	0	0	3	1	0	4
	50016810	Thelepus spp.	7	0	7	0	0	14
	5001681002	Thelepus hamatus	0	0	4	0	0	4
	500168130201	Lanassa venusta venusta	0	0	9	5	3	17
	50017001	Chone spp.	0	0	1	0	0	1
	51032001	Alvania spp.	0	1	1	1	0	3
	5103760201	Natica clausa	0	3	3	1	0	7
	5105030204	Mitrella gouldi	5	6	8	4	5	28
	51080102	Turbonilla spp.	2	0	0	2	2	6
	5110	Cephalaspidea	0	0	1	0	0	1
	5110070101	Gastropteron pacificum	0	0	1	0	0	1
	5502020201	Nucula tenuis	4	4	3	4	7	22
	5502040203	Nuculana fossa	0	0	0	1	0	1
	5515010101	Parvilucina tenuisculpta	0	0	0	1	0	1
	5515020201	Axinopsida serricata	89	39	172	68	77	445
	5515100102	Mysella tumida	4	1	4	2	7	18
	55152201	Clinocardium spp.	0	0	0	1	0	1
	5515220102	Clinocardium nuttali	1	4	0	0	0	5
	5515250104	Spisula falcata	0	2	0	0	0	2
	5515310102	Macoma elimata	0	0	2	0	0	2
	5515310106	Macoma obliqua	0	2	7	0	0	9
	5515310112	Macoma carlottensis	1	0	0	0	0	1
	5515310114	Macoma nasuta	8	5	5	8	5	31
	5515310116	Macoma balthica	1	0	0	0	0	1
	5515310204	Tellina modesta	2	4	2	1	2	11
	5515470501	Psephidia lordi	38	84	19	33	91	265
	5517010201	Mya arenaria	0	0	0	0	1	1
	5520020103	Pandora bilirata	0	0	0	1	0	1
	611103	Cylindroleberididae	0	1	0	1	0	2
	6111070301	Euphilomedes carcharodonta	208	128	208	200	108	852
	6111070303	Euphilomedes producta	11	0	26	8	0	45
	61450101	Nebalia spp.	0	1	2	1	0	4
	6154050101	Diastylis alaskensis	0	1	0	0	0	1
	6157020103	Leptochelia dubia	1	1	18	2	0	22
	6169020208	Byblis millsii	0	0	1	1	0	2
	61690602	Aoroides spp	0	0	0	2	0	2
	6169060204	Aoroides spinosus	0	0	0	1	0	1
	61692602	Photis spp.	0	0	1	0	0	1

TABLE F-2. (CONTINUED)

Station	NODC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total
NG-02	43020101	Tubulanus spp.	1	1	0	3	0	5
	4302010104	Tubulanus pellucidus	0	1	2	0	2	5
	43030202	Cerebratulus spp.	0	0	1	0	0	1
	43030205	Micrura spp.	4	6	0	4	1	15
	43060501	Amphiporus spp.	1	1	0	0	0	2
	43060602	Tetrastemma spp.	0	1	0	0	0	1
	50011302	Eteone spp.	0	0	0	0	1	1
	5001130205	Eteone longa	0	1	0	1	0	2
	5001131402	Phyllodoce (Aponaitides) hartmanae	0	1	0	1	0	2
	50012404	Nereis spp.	1	0	0	0	0	1
	5001250102	Nephtys ciliata	0	1	1	0	0	2
	5001250103	Nephtys caeca	0	2	1	1	0	4
	5001270104	Glycera americana	1	0	0	0	0	1
	5001280101	Glycinde picta	2	1	4	0	1	8
	5001280103	Glycinde armigera	0	0	1	1	3	5
	50012901	Onuphis spp.	0	0	1	1	0	2
	5001290111	Onuphis elegans	0	0	0	1	1	2
	5001310109	Lumbrineris luti	1	0	0	0	1	2
	5001310197	Lumbrineris sp. gr. 1	1	0	0	0	0	1
	5001400102	Leitoscoloplos pugettensis	4	5	4	0	0	13
	5001400301	Scoloplos armiger	27	36	23	30	23	139
	5001400311	Scoloplos acineps	1	0	0	1	0	2
	5001410201	Aricidea suecica	0	2	1	0	1	4
	50014305	Prionospio spp.	0	0	0	0	1	1
	5001430506	Prionospio steenstrupi	2	9	4	6	10	31
	5001430599	Prionospio multibranchiata	1	0	0	0	0	1
	5001431001	Spiophanes bombyx	0	0	0	2	0	2
	5001490302	Spiochaetopterus costarum	0	1	1	0	1	3
	50015003	Tharyx spp.	0	1	0	0	0	1
	50015004	Chaetozone spp.	1	0	5	3	2	11
	5001580202	Armandia brevis	2	0	0	0	0	2
	50016003	Notomastus spp.	0	0	0	0	1	1
	5001600303	Notomastus lineatus	0	1	0	2	1	4
	5001600601	Barantolla americana	0	0	1	1	0	2
	5001630802	Axiothella rubrocincta	0	0	0	1	0	1
	5001631	Euclymeninae	0	0	1	0	0	1
	5001660303	Pectinaria granulata	2	8	2	4	2	18
	500168	Terebellidae	3	0	0	1	0	4
	50016808	Polycirrus spp.	0	1	1	0	0	2
	500168130201	Lanassa venusta venusta	0	0	0	1	0	1
	5103760201	Natica clausa	2	2	1	1	1	7
	5105030204	Mitrella gouldi	3	0	0	0	0	3
	5105100102	Olivella baetica	0	1	0	0	0	1
	51080102	Turbonilla spp.	0	0	0	1	0	1
	51100601	Aglaja spp.	0	0	0	1	1	2
	5502020201	Nucula tenuis	1	0	0	0	1	2
	5507010201	Crenella decussata	0	0	0	1	0	1
	5515020201	Axinopsida serricata	1	2	4	6	2	15
	5515100102	Mysella tumida	6	8	4	1	0	19
	5515220102	Clinocardium nuttali	2	0	6	3	5	16

TABLE F-2. (CONTINUED)

Station	NOOC Code	Taxa Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total
NG-03	43020101	Tubulanus spp.	0	5	3	0	0	8
	4302010104	Tubulanus pellucidus	0	0	1	0	0	1
	43030205	Micrura spp.	1	5	1	5	0	12
	47	Nemstoda	0	0	0	1	0	1
	5001021	Harmothoinae	0	1	0	1	0	2
	5001060101	Pholoe minuta	0	0	0	2	0	2
	5001131101	Eulalia (Eumida) sanguinea	0	1	0	1	0	2
	5001131402	Phyllodoce (Aponaitides) hartmanae	0	0	0	0	1	1
	5001230308	Syllis elongata	1	3	2	1	0	7
	5001230703	Exogone lourei	0	1	0	0	0	1
	50012404	Nereis spp.	0	1	0	0	0	1
	5001240404	Nereis procera	0	0	0	0	1	1
	5001240501	Platynereis bicanaliculata	1	0	1	2	0	4
	5001250103	Nephtys caeca	0	1	0	0	2	3
	5001250111	Nephtys ferruginea	0	1	0	0	0	1
	5001260103	Sphaerodoropsis sphaerulifer	1	0	0	0	2	3
	5001280101	Glycinde picta	0	3	1	0	0	4
	500128029999	Goniada brunnea/maculata	0	1	1	0	0	2
	50012901	Onuphis spp.	1	0	0	0	0	1
	5001290111	Onuphis elegans	1	0	0	0	0	1
	5001290202	Diopatra ornata	0	0	0	1	0	1
	5001310197	Lumbrineris sp. gr. 1	0	0	0	1	0	1
	5001360201	Protodorvillea gracilis	0	0	2	0	0	2
	5001360504	Schistomeringos rudolphi	0	1	0	0	0	1
	5001400102	Leitoscoloplos pugettensis	0	0	3	2	0	5
	5001400301	Scoloplos armiger	0	25	21	29	30	105
	5001400311	Scoloplos acmeceps	1	8	0	1	0	10
	500141	Paraonidae	0	0	0	0	1	1
	50014102	Acesta/Aricidea spp.	0	0	0	0	1	1
	5001410201	Aricidea suecica	0	3	2	0	0	5
	5001430506	Prionospio steenstrupi	1	0	0	0	0	1
	5001430701	Spio filicornis	0	0	2	0	2	4
	5001431001	Spiophanes bombyx	0	0	0	1	0	1
	5001490302	Spiochaetopterus costarum	5	3	4	0	0	12
	5001490401	Mesochaetopterus taylori	0	1	0	1	0	2
	50015003	Tharyx spp.	0	0	1	0	2	3
	50015004	Chaetozone spp.	2	1	0	1	0	4
	50015804	Travisia spp.	0	0	0	0	2	2
	5001580401	Travisia brevis	0	3	1	2	0	6
	5001600303	Notomastus lineatus	0	3	1	0	0	4
	5001600501	Decamastus gracilis	0	0	0	0	1	1
	5001630903	Praxillella affinis	0	0	0	0	3	3
	5001631	Euclymeninae	0	3	6	1	1	11
	5001660303	Pectinaria granulata	0	1	4	6	0	11
	500168	Terebellidae	0	4	7	4	0	15
	50016807	Pista spp.	0	1	0	0	0	1
	5001680701	Pista cristata	0	1	0	0	0	1
	50016808	Polycirrus spp.	2	14	11	15	4	46
	5001681501	Laphania boeckii	1	2	2	5	4	14
	51021003	Margarites spp.	29	44	15	20	29	137

TABLE F-2. (CONTINUED)

Station NODC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total	
NG-03								
		828	1087	798	895	969	4577	Sum
		8	11	8	9	10	46	Ave
		2051	3041	1600	2113	2401	54942	Var
		0	0	0	0	0	1	Min
		403	493	323	404	420	2043	Max

Number of Observations: 100

TABLE F-2. (CONTINUED)

Station	NODC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total
NG-04	5110120101	Haminoea vesicula	0	0	1	0	0	1
	5502020201	Nucula tenuis	0	3	1	1	0	5
	5502040203	Nuculana fossa	0	0	3	0	0	3
	5507010201	Crenella decussata	0	0	1	1	0	2
	5507010301	Megacrenella columbiana	0	1	0	0	0	1
	55070106	Modiolus spp.	1	0	0	0	0	1
	5507010603	Modiolus rectus	0	0	1	0	0	1
	5515010101	Parvilucina tenuisculpta	10	4	6	7	7	34
	5515010201	Lucinoma acutilineata	0	0	0	0	1	1
	5515020201	Axinopsida serricata	44	21	5	24	35	129
	55151001	Mysella spp.	0	0	32	0	0	32
	5515100102	Mysella tumida	46	45	0	9	13	113
	55152201	Clinocardium spp.	0	0	83	0	0	83
	5515220101	Clinocardium ciliatum	37	0	0	0	6	43
	5515220102	Clinocardium nuttali	0	55	0	5	1	61
	5515250104	Spisula falcata	5	2	7	4	1	19
	5515290201	Solen sicarius	0	0	2	0	0	2
	55153101	Macoma spp.	0	0	0	1	7	8
	5515310106	Macoma obliqua	14	9	0	0	0	23
	5515310114	Macoma nasuta	4	0	0	0	0	4
	5515310116	Macoma balthica	0	0	4	0	1	5
	5515310202	Tellina nuculoides	2	0	1	0	1	4
	5515310204	Tellina modesta	15	33	11	2	1	62
	5515350101	Semele rubropicta	0	0	0	1	0	1
	5515470101	Tranzenella tantilla	0	0	0	1	0	1
	5515470201	Saxidomus giganteus	0	20	18	0	0	38
	5515470501	Psephidia lordi	92	132	126	188	150	688
	5515470701	Protothaca staminea	1	3	4	0	2	10
	5517010201	Mya arenaria	3	1	0	1	0	5
	55200502	Lyonsia spp.	0	0	1	0	0	1
	5520050201	Lyonsia arenosa	1	1	0	0	0	2
	611103	Cylindroleberididae	0	0	0	1	0	1
	6111070301	Euphilomedes carcharodonta	170	111	110	175	160	726
	6154050101	Diastylis alaskensis	1	0	0	0	1	2
	6154070105	Campylaspis hartae	0	0	0	0	1	1
	61570201	Leptochelia spp.	1	0	0	0	0	1
	6157020103	Leptochelia dubia	10	14	8	9	20	61
	61620202	Synidotea spp.	0	0	1	0	0	1
	6169020112	Ampelisca cristata	0	1	0	0	0	1
	6169020113	Ampelisca hancocki	1	0	0	0	0	1
	6169020208	Byblis millsii	1	1	0	0	0	2
	61690602	Aoroides spp.	2	0	2	0	0	4
	61691502	Corophium spp.	0	1	0	0	0	1
	61692602	Photis spp.	1	10	0	0	1	12
	6169260201	Photis brevipes	1	0	0	0	0	1
	61692603	Protomeдея spp.	0	0	1	0	0	1
	61693414	Hippomedon spp.	0	0	0	0	2	2
	6169342903	Orchomene pacifica	1	0	0	1	5	7
	6169342904	Orchomene pinquis	0	3	4	0	0	7
	6169371403	Synchelidium rectipalmm	3	1	0	1	1	6

TABLE F-2. (CONTINUED)

Station	NODC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total
NG-06	3754020201	<i>Ptilosarcus gurneyi</i>	7	8	18	10	8	51
	37590401	<i>Halocampa</i> spp	0	0	0	2	1	3
	4302010104	<i>Tubulanus pellucidus</i>	2	0	0	2	3	7
	43030204	<i>Lineus</i> spp.	0	0	0	1	0	1
	43030205	<i>Micrura</i> spp.	5	4	0	5	5	19
	43060501	<i>Amphiporus</i> spp.	0	1	0	0	0	1
	47	Nematoda	0	1	0	0	1	2
	5001020603	<i>Gattyana cirrosa</i>	1	0	2	1	0	4
	5001021	Harmothoinae	0	0	1	0	0	1
	5001022301	<i>Tenonia kitsapensis</i>	0	0	0	1	0	1
	5001060101	<i>Pholoe minuta</i>	2	2	0	0	2	6
	5001060301	<i>Sthenelais berkeleyi</i>	0	0	0	0	1	1
	5001130102	<i>Phyllodoce</i> (<i>Anaitides</i>) <i>groenlandica</i>	0	0	1	0	2	3
	5001130112	<i>Phyllodoce</i> (<i>Anaitides</i>) <i>longipes</i>	0	0	0	0	1	1
	50011302	<i>Eteone</i> spp.	1	0	0	0	1	2
	5001130205	<i>Eteone longa</i>	0	1	0	1	2	4
	5001131101	<i>Eulalia</i> (<i>Eumida</i>) <i>sanguinea</i>	4	0	2	0	2	8
	5001210102	<i>Gyptis brevipalpa</i>	0	0	0	0	1	1
	5001230308	<i>Syllis elongata</i>	1	1	0	3	3	8
	5001230312	<i>Syllis hyalina</i>	0	1	0	0	0	1
	5001230703	<i>Exogone lourei</i>	3	2	0	1	0	6
	5001240501	<i>Platynereis bicanaliculata</i>	4	0	2	0	2	8
	5001250102	<i>Nephtys ciliata</i>	0	3	0	0	0	3
	5001250103	<i>Nephtys caeca</i>	0	0	1	0	0	1
	5001250111	<i>Nephtys ferruginea</i>	12	3	6	8	3	32
	5001260103	<i>Sphaerodoropsis sphaerulifer</i>	13	7	4	2	20	46
	5001270101	<i>Glycera capitata</i>	0	3	0	3	2	8
	5001280101	<i>Glycinde picta</i>	8	4	3	8	9	32
	5001280103	<i>Glycinde armigera</i>	0	2	0	2	2	6
	50012901	<i>Onuphis</i> spp.	2	1	0	5	2	10
	5001290111	<i>Onuphis elegans</i>	6	4	0	2	0	12
	50013101	<i>Lumbrineris</i> spp.	1	0	0	0	1	2
	5001310109	<i>Lumbrineris luti</i>	5	4	1	7	15	32
	5001310118	<i>Lumbrineris cruzensis</i>	2	0	0	2	0	4
	5001310128	<i>Lumbrineris limicola</i>	1	0	0	0	0	1
	5001310195	<i>Lumbrineris</i> sp. gr. 3	1	0	0	1	0	2
	5001310197	<i>Lumbrineris</i> sp. gr. 1	21	3	4	23	10	61
	5001400102	<i>Leitoscoloplos pugettensis</i>	37	17	10	23	36	123
	5001400301	<i>Scoloplos armiger</i>	5	25	9	0	3	42
	5001400311	<i>Scoloplos acmeceps</i>	0	1	0	1	0	2
	5001400510	<i>Orbinia</i> (<i>Phylo</i>) <i>felix</i>	0	1	0	2	1	4
	5001430431	<i>Polydora cardalia</i>	0	1	0	0	0	1
	50014305	<i>Prionospio</i> spp.	0	0	0	0	1	1
	5001430506	<i>Prionospio steenstrupi</i>	8	9	4	11	7	39
	5001430599	<i>Prionospio multibranchiata</i>	1	0	0	1	0	2
	5001430703	<i>Spio cirrifera</i>	0	1	0	0	0	1
	5001440105	<i>Magelona longicornis</i>	0	0	0	1	0	1
	5001490302	<i>Spiochaetopterus costarum</i>	0	1	7	0	9	17
	50014904	<i>Mesochaetopterus</i> spp.	0	0	1	0	1	2
	5001490401	<i>Mesochaetopterus taylori</i>	0	0	1	3	0	4

TABLE F-2. (CONTINUED)

Station	NODC Code	Taxa Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total
NG-06	5515220201	<i>Serripes groenlandicus</i>	3	0	0	1	2	6
	5515250104	<i>Spisula falcata</i>	2	0	1	0	0	3
	5515290201	<i>Solen sicarius</i>	4	0	1	0	1	6
	5515310102	<i>Macoma elimata</i>	4	0	0	3	0	7
	5515310106	<i>Macoma obliqua</i>	4	4	1	5	2	16
	5515310111	<i>Macoma yoldiformis</i>	0	1	0	0	0	1
	5515310112	<i>Macoma carlottensis</i>	0	1	0	1	0	2
	5515310116	<i>Macoma balthica</i>	0	3	1	2	1	7
	5515310202	<i>Tellina nuculoides</i>	1	1	1	1	0	4
	5515310204	<i>Tellina modesta</i>	2	3	2	3	2	12
	5515470201	<i>Saxidomus giganteus</i>	1	8	5	2	6	22
	5515470501	<i>Psephidia lordi</i>	62	125	96	62	83	428
	5515470701	<i>Protothaca staminea</i>	0	1	1	2	0	4
	5517010201	<i>Mya arenaria</i>	6	4	7	4	2	23
	5520020102	<i>Pandora filosa</i>	0	1	2	0	2	5
	5520050201	<i>Lyonsia arenosa</i>	4	6	2	1	3	16
	5520100108	<i>Cardiomya californica</i>	0	4	1	4	0	9
	611103	Cyldroleberididae	0	0	0	0	1	1
	6111060103	<i>Rutiderma lomae</i>	7	3	1	5	10	26
	6111070301	<i>Euphilomedes carcharodonta</i>	174	190	153	124	119	760
	6111070303	<i>Euphilomedes producta</i>	12	5	3	2	7	29
	61450101	<i>Nebalia</i> spp.	1	0	1	0	0	2
	6154040202	<i>Eudorella pacifica</i>	1	0	0	0	0	1
	6154050101	<i>Diastylis alaskensis</i>	2	1	0	0	1	4
	6154070105	<i>Campylaspis hartae</i>	1	2	0	0	0	3
	61570201	<i>Leptochelia</i> spp.	8	1	0	0	6	15
	6157020103	<i>Leptochelia dubia</i>	50	20	19	31	0	120
	6160011601	<i>Haliophasma geminata</i>	0	3	1	0	5	9
	6169	<i>Gammaridea</i>	1	1	0	0	0	2
	6169020113	<i>Ampelisca hancocki</i>	0	0	0	1	0	1
	6169020208	<i>Byblis millsii</i>	0	5	3	2	1	11
	61690602	<i>Aoroides</i> spp.	3	1	0	0	1	5
	6169211008	<i>Melita desdichada</i>	1	1	0	0	0	2
	61692602	<i>Photis</i> spp.	1	0	1	1	0	3
	61693414	<i>Hippomedon</i> spp.	0	0	0	1	0	1
	61693429	<i>Orchomene</i> spp.	1	0	0	0	0	1
	6169342903	<i>Orchomene pacifica</i>	0	2	0	4	1	7
	61693708	<i>Monoculodes</i> spp.	1	0	0	0	0	1
	6169371402	<i>Synchelidium shoemakeri</i>	0	0	2	2	2	6
	6169371502	<i>Westwoodilla caecula</i>	7	0	2	7	10	26
	6169420602	<i>Metaphoxus fultoni</i>	1	0	0	0	0	1
	6169421504	<i>Rhepoxynius abronius</i>	0	1	0	0	1	2
	61694303	<i>Parapleustes</i> spp.	1	0	0	0	0	1
	61830402	<i>Callianassa</i> spp.	1	1	2	0	1	5
	6188030105	<i>Cancer gracilis</i>	0	0	1	0	0	1
	61890604	<i>Pinnixa</i> spp.	1	0	0	1	0	2
	7200020104	<i>Golfingia pugetensis</i>	0	0	1	0	1	2
	77	Phoronida	0	0	5	0	0	5
	7700010102	<i>Phoronopsis harmeri</i>	0	1	0	0	0	1
	8127011	Ophiolepidinae	1	0	0	0	0	1

TABLE F-2. (CONTINUED)

Station	NOCC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total
NG-10	3754020201	<i>Ptilosarcus gurneyi</i>	0	1	0	1	0	2
	43020101	<i>Tubulanus</i> spp.	1	3	0	6	11	21
	4302010104	<i>Tubulanus pellucidus</i>	1	1	0	3	0	5
	430302	Lineidae	0	0	7	0	0	7
	43030202	<i>Cerebratulus</i> spp.	0	1	0	0	1	2
	43030204	<i>Lineus</i> spp.	0	0	3	0	0	3
	43030205	<i>Micrura</i> spp.	6	3	7	11	5	32
	430605	Amphiporidae	0	0	0	0	1	1
	43060501	<i>Amphiporus</i> spp.	7	2	0	0	5	14
	43060602	<i>Tetrastemma</i> spp.	0	0	2	6	1	9
	47	Nematoda	0	1	0	2	0	3
	5001020810	<i>Harmothoe lunulata</i>	0	0	2	0	0	2
	5001060101	<i>Pholoe minuta</i>	1	1	7	8	11	28
	5001130102	<i>Phyllodoce</i> (<i>Anaitides</i>) <i>groenlandica</i>	2	2	2	2	0	8
	5001130112	<i>Phyllodoce</i> (<i>Anaitides</i>) <i>longipes</i>	0	0	0	1	0	1
	5001130114	<i>Phyllodoce</i> (<i>Anaitides</i>) <i>williamsi</i>	0	0	0	2	0	2
	50011302	<i>Eteone</i> spp.	2	0	0	0	0	2
	5001130205	<i>Eteone longa</i>	0	1	1	0	0	2
	5001131101	<i>Eulalia</i> (<i>Eumida</i>) <i>sanguinea</i>	0	1	3	0	1	5
	5001210102	<i>Gyptis brevipalpa</i>	0	0	0	0	1	1
	5001210801	<i>Micropodarke dubia</i>	0	0	0	1	1	2
	5001211101	<i>Heteropodarke heteromorpha</i>	0	0	1	0	0	1
	5001230308	<i>Syllis elongata</i>	16	0	10	6	2	34
	5001230703	<i>Exogone lourei</i>	1	0	0	0	0	1
	5001240501	<i>Platynereis bicanaliculata</i>	9	62	13	53	81	218
	5001250103	<i>Nephtys caeca</i>	0	7	1	5	5	18
	5001250111	<i>Nephtys ferruginea</i>	4	3	2	1	1	11
	5001260103	<i>Sphaerodoropsis sphaerulifer</i>	2	0	1	0	0	3
	5001270101	<i>Glycera capitata</i>	4	0	0	0	0	4
	5001270104	<i>Glycera americana</i>	1	0	0	2	0	3
	5001280101	<i>Glycinde picta</i>	4	9	12	8	7	40
	5001280103	<i>Glycinde armigera</i>	1	1	0	5	3	10
	500129	Onuphidae	0	0	0	0	1	1
	50012901	<i>Onuphis</i> spp.	0	0	1	1	0	2
	5001290111	<i>Onuphis elegans</i>	4	3	1	0	3	11
	5001290202	<i>Diopatra ornata</i>	1	0	2	2	0	5
	50013101	<i>Lumbrineris</i> spp.	0	0	1	0	0	1
	5001310109	<i>Lumbrineris luti</i>	3	0	1	1	0	5
	5001310194	<i>Lumbrineris</i> sp. gr. 4	0	1	1	1	0	3
	5001310195	<i>Lumbrineris</i> sp. gr. 3	0	0	1	0	0	1
	5001310197	<i>Lumbrineris</i> sp. gr. 1	0	0	1	1	0	2
	5001360201	<i>Protodorvillea gracilis</i>	34	2	10	24	11	81
	5001360206	<i>Protodorvillea pugettensis</i>	0	1	0	0	0	1
	5001360504	<i>Schistomeringos rudolphi</i>	0	0	2	1	2	5
	5001400101	<i>Leitoscoloplos panamensis</i>	1	0	0	0	1	2
	5001400102	<i>Leitoscoloplos pugettensis</i>	4	1	9	4	4	22
	5001400301	<i>Scoloplos armiger</i>	4	0	4	7	2	17
	5001400311	<i>Scoloplos acmeceps</i>	1	0	0	2	1	4
	5001410201	<i>Aricidea suecica</i>	0	1	0	0	0	1
	50014305	<i>Prionospio</i> spp.	0	0	0	5	1	6

TABLE F-2. (CONTINUED)

Station	NOCC Code	Taxa Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total
NG-10	55090506	Delectopecten spp.	0	1	0	0	1	2
	5509090101	Pododesmus macroschisma	3	6	0	0	0	9
	5515010101	Parvilucina tenuisculpta	13	14	8	13	12	60
	5515010201	Lucinoma acutilineata	1	1	0	0	0	2
	5515020201	Axinopsida serricata	61	28	33	22	23	167
	5515100102	Mysella tumida	10	89	78	271	162	610
	55152201	Clinocardium spp.	1	0	0	3	0	4
	5515220102	Clinocardium nuttali	6	19	5	33	10	73
	5515220201	Serripes groenlandicus	22	0	7	1	0	30
	5515250104	Spisula falcata	0	1	0	3	3	7
	5515310106	Macoma obliqua	9	65	20	55	34	183
	5515310116	Macoma balthica	0	29	2	15	15	61
	5515310202	Tellina nuculoides	0	0	0	1	1	2
	5515310204	Tellina modesta	2	24	6	28	15	75
	5515470101	Transenella tantilla	3	1	3	10	1	18
	5515470201	Saxidomus giganteus	9	106	72	177	107	471
	5515470501	Psephidia lordi	92	16	56	47	28	239
	5515470701	Protothaca staminea	0	15	4	11	7	37
	5517010201	Mya arenaria	11	2	8	6	1	28
	5520050201	Lyonsia arenosa	2	1	1	2	0	6
	6111060103	Rutiderma lomae	3	0	0	0	1	4
	6111070301	Euphilomedes carcharodonta	196	67	189	265	201	918
	6111070303	Euphilomedes producta	3	0	0	0	0	3
	61340201	Balanus spp.	0	0	0	0	1	1
	61450101	Nebalia spp.	0	23	0	0	0	23
	61570201	Leptochelia spp.	4	0	7	0	6	17
	6157020103	Leptochelia dubia	44	69	71	180	107	471
	6160011601	Haliophasma geminata	3	0	1	0	0	4
	61620202	Synidotea spp.	0	1	1	2	2	6
	616312	Munnidae	0	0	0	1	1	2
	616504	Bopyridae	0	0	4	0	0	4
	6169020208	Byblis millsii	4	0	0	1	1	6
	6169040118	Ampithoe lacertosa	0	1	0	0	0	1
	61690404	Perampithoe spp.	0	1	0	0	0	1
	61690602	Aoroides spp.	4	43	1	3	4	55
	6169060203	Aoroides inermis	11	49	4	27	4	95
	6169060204	Aoroides spinosus	0	150	0	8	7	165
	6169060205	Aoroides exilis	3	37	8	46	6	100
	61691202	Calliopius spp.	0	0	0	1	0	1
	61691502	Corophium spp.	0	1	0	1	0	2
	6169201208	Pontogeneia rostrata	0	5	0	1	0	6
	6169201307	Rhachotropis oculata	2	0	0	0	0	2
	61692110	Melita spp.	0	2	0	2	0	4
	6169211003	Melita dentata	0	9	0	0	6	15
	6169211008	Melita desdichada	1	18	3	15	6	43
	61692602	Photis spp.	0	19	7	64	15	105
	6169260201	Photis brevipes	3	101	26	179	47	356
	6169270202	Ischyrocerus anguipes	0	2	0	2	1	5
	61693414	Hippomedon spp.	3	0	0	0	0	3
	6169342903	Orchomene pacifica	1	0	0	0	0	1

TABLE F-2. (CONTINUED)

Station	NODC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total
PS-02	3754020201	<i>Ptilosarcus gurneyi</i>	0	0	1	0	0	1
	37590101	<i>Edwardsia</i> spp.	0	0	0	0	1	1
	3906	Polycladida	0	0	1	0	0	1
	4302010104	<i>Tubulanus pellucidus</i>	1	1	0	0	0	2
	43030205	<i>Micrura</i> spp.	1	2	3	2	1	9
	430606029998	<i>Tetrastemma</i> sp. C (Everett Harbor only)	1	0	0	0	2	3
	47	Nematoda	0	0	0	0	1	1
	5001021703	<i>Hesperonoe laevis</i>	0	0	0	1	0	1
	5001130102	<i>Phyllodoce</i> (<i>Anaitides</i>) <i>groenlandica</i>	0	0	0	1	0	1
	50011302	<i>Eteone</i> spp.	0	1	0	0	1	2
	5001130205	<i>Eteone longa</i>	0	0	1	0	1	2
	5001240404	<i>Nereis procera</i>	0	0	0	1	0	1
	5001250111	<i>Nephtys ferruginea</i>	9	14	8	9	9	49
	5001270101	<i>Glycera capitata</i>	2	1	3	2	1	9
	5001270104	<i>Glycera americana</i>	0	1	0	0	0	1
	500128029999	<i>Goniada brunnea/maculata</i>	2	2	1	1	1	7
	50012901	<i>Onuphis</i> spp.	0	1	0	1	0	2
	5001310109	<i>Lumbrineris luti</i>	12	18	24	12	12	78
	5001310197	<i>Lumbrineris</i> sp. gr. 1	12	14	6	8	17	57
	5001400101	<i>Leitoscoloplos panamensis</i>	0	0	1	1	1	3
	5001400102	<i>Leitoscoloplos pugettensis</i>	13	34	22	36	13	118
	5001400301	<i>Scoloplos armiger</i>	0	4	0	1	5	10
	5001400510	<i>Orbinia</i> (<i>Phylo</i>) <i>felix</i>	2	0	2	0	1	5
	5001410201	<i>Aricidea suecica</i>	0	6	1	0	2	9
	5001430429	<i>Polydora brachycephala</i>	0	0	0	0	1	1
	5001430431	<i>Polydora cardalia</i>	0	0	4	1	0	5
	5001430502	<i>Prionospio cirrifera</i>	1	0	0	0	2	3
	5001430506	<i>Prionospio steenstrupi</i>	0	4	0	2	0	6
	5001430599	<i>Prionospio multibranchiata</i>	0	3	0	0	2	5
	5001490302	<i>Spiochaetopterus costarum</i>	4	5	2	0	2	13
	5001490401	<i>Mesochaetopterus taylori</i>	1	0	0	0	0	1
	50015003	<i>Tharyx</i> spp.	0	1	1	0	1	3
	5001580607	<i>Ophelina acuminata</i>	3	7	1	4	15	30
	50016004	<i>Mediomastus</i> spp.	1	2	2	0	6	11
	5001600501	<i>Decamastus gracilis</i>	2	0	0	0	1	3
	5001600601	<i>Barantolla americana</i>	1	1	2	0	2	6
	5001630903	<i>Praxillella affinis</i>	1	0	0	0	0	1
	5001631	Euclymeninae	3	3	0	1	2	9
	5001631001	<i>Rhodine bitorquata</i>	1	0	0	0	0	1
	5001660303	<i>Pectinaria granulata</i>	4	2	7	4	10	27
	5001660304	<i>Pectinaria californiensis</i>	0	1	0	1	0	2
	5001670208	<i>Ampharete acutifrons</i>	0	0	0	0	1	1
	5001670401	<i>Lysippe labiata</i>	0	1	0	0	0	1
	500168	Terebellidae	1	0	0	0	0	1
	50016807	<i>Pista</i> spp.	0	4	1	0	2	7
	5001680701	<i>Pista cristata</i>	0	1	0	0	1	2
	50016808	<i>Polycirrus</i> spp.	0	1	0	0	1	2
	500168130201	<i>Lanassa venusta venusta</i>	0	0	0	1	0	1
	5001690101	<i>Terebellides stroemi</i>	0	1	0	0	0	1
	50017001	<i>Chone</i> spp.	0	0	0	1	0	1

TABLE F-2. (CONTINUED)

<u>Station</u>	<u>NODC Code</u>	<u>Taxa. Name</u>	<u>Rep1</u>	<u>Rep2</u>	<u>Rep3</u>	<u>Rep4</u>	<u>Rep5</u>	<u>Total</u>	
PS-02			0	0	0	0	0	1	Min
			101	219	186	246	195	947	Max

Number of Observations: 96

TABLE F-2. (CONTINUED)

Station	NODC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total
PS-03	50016312	<i>Clymenura</i> spp.	0	0	1	0	0	1
	5001660303	<i>Pectinaria granulata</i>	44	51	41	50	61	247
	5001660304	<i>Pectinaria californiensis</i>	1	0	1	0	1	3
	50016702	<i>Ampharete</i> spp.	6	2	0	1	0	9
	5001670208	<i>Ampharete acutifrons</i>	3	3	2	8	12	28
	5001670401	<i>Lysippe labiata</i>	3	2	0	0	1	6
	5001670804	<i>Asabellides lineata</i>	1	0	0	0	0	1
	500168	Terebellidae	0	1	0	0	0	1
	50016807	<i>Pista</i> spp.	19	27	1	4	14	65
	5001680701	<i>Pista cristata</i>	1	4	3	2	0	10
	5001680710	<i>Pista brevibranchiata</i>	0	1	0	0	0	1
	50016808	<i>Polycirrus</i> spp.	0	3	0	0	1	4
	500168130201	<i>Lanassa venusta venusta</i>	0	1	0	0	0	1
	5001690101	<i>Terebellides stroemi</i>	3	1	1	1	3	9
	5001700204	<i>Euchone incolor</i>	5	0	0	0	0	5
	51032001	<i>Alvania</i> spp.	1	0	2	2	3	8
	5103760201	<i>Natica clausa</i>	0	1	0	1	1	3
	5105030204	<i>Mitrella gouldi</i>	1	7	2	1	9	20
	51080102	<i>Turbonilla</i> spp.	1	1	0	0	0	2
	51100601	<i>Aglaja</i> spp.	1	1	1	0	1	4
	5502020201	<i>Nucula tenuis</i>	2	1	2	2	4	11
	55070106	<i>Modiolus</i> spp.	0	0	1	0	0	1
	5515010101	<i>Parvilucina tenuisculpta</i>	1	0	0	0	1	2
	5515020201	<i>Axinopsida serricata</i>	19	24	16	22	16	97
	5515100102	<i>Mysella tumida</i>	1	1	0	0	4	6
	55152201	<i>Clinocardium</i> spp.	0	1	0	0	0	1
	5515220102	<i>Clinocardium nuttali</i>	6	7	14	26	20	73
	5515220201	<i>Serripes groenlandicus</i>	1	0	1	0	0	2
	5515220301	<i>Nemocardium centifilosum</i>	0	0	2	0	0	2
	5515250104	<i>Spisula falcata</i>	4	1	5	4	0	14
	5515290201	<i>Solen sicarius</i>	1	0	2	3	0	6
	5515310102	<i>Macoma elimata</i>	3	2	1	3	1	10
	5515310106	<i>Macoma obliqua</i>	0	4	0	0	0	4
	5515310116	<i>Macoma balthica</i>	21	15	25	21	36	118
	5515310202	<i>Tellina nuculoidea</i>	0	0	1	0	1	2
	5515470201	<i>Saxidomus giganteus</i>	1	0	1	1	0	3
	5515470501	<i>Psephidia lordi</i>	25	55	44	62	48	234
	5515470701	<i>Protothaca staminea</i>	1	1	1	1	1	5
	5517010201	<i>Mya arenaria</i>	0	0	0	1	0	1
	5520020102	<i>Pandora filosa</i>	0	0	0	0	1	1
	5520020103	<i>Pandora bilirata</i>	0	1	0	0	0	1
	5520050201	<i>Lyonsia arenosa</i>	2	3	2	2	2	11
	5520080103	<i>Asthenothaerus villosior</i>	0	1	0	0	0	1
	6111060103	<i>Rutiderma loma</i>	1	2	0	0	0	3
	6111070301	<i>Euphilomedes carcharodonta</i>	55	59	75	77	81	347
	6111070303	<i>Euphilomedes producta</i>	45	33	12	14	15	119
	6160011601	<i>Haliophasma geminata</i>	2	0	0	1	0	3
	6169020125	<i>Ampelisca brevisimulata</i>	0	1	0	0	0	1
	6169020135	<i>Ampelisca careyi</i>	2	2	1	2	2	9
	61692603	<i>Protomedeia</i> spp.	1	0	0	0	0	1

TABLE F-2. (CONTINUED)

Station	NODC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total
PS-04	3754020201	<i>Ptilosarcus gurneyi</i>	2	0	0	0	4	6
	37590401	<i>Halocampa</i> spp.	0	0	0	1	0	1
	4302010104	<i>Tubularus pellucidus</i>	0	0	2	0	4	6
	43030204	<i>Lineus</i> spp.	0	2	0	0	0	2
	43030205	<i>Micrura</i> spp.	0	2	2	0	2	6
	47	Nematoda	1	0	0	0	0	1
	5001060101	<i>Pholoe minuta</i>	0	1	0	0	0	1
	5001130102	<i>Phyllodoce (Anaitides) groenlandica</i>	1	1	0	1	0	3
	50011302	<i>Eteone</i> spp.	1	1	0	1	1	4
	5001130205	<i>Eteone longa</i>	0	0	0	0	3	3
	50011311	<i>Eulalia (Eumida) spp.</i>	0	0	0	1	0	1
	5001131101	<i>Eulalia (Eumida) sanguinea</i>	1	0	0	0	1	2
	50011314	<i>Phyllodoce</i> spp.	1	0	1	0	0	2
	5001131402	<i>Phyllodoce (Aponaitides) hartmanae</i>	0	0	1	0	1	2
	5001131411	<i>Phyllodoce (Anaitides) cuspidata</i>	0	0	0	1	0	1
	50012303	<i>Syllis</i> spp.	0	0	0	0	1	1
	50012307	<i>Exogone</i> spp.	1	0	0	0	0	1
	5001230703	<i>Exogone lourei</i>	3	5	3	3	10	24
	5001250104	<i>Nephtys cornuta</i>	0	0	1	0	0	1
	5001250111	<i>Nephtys ferruginea</i>	0	5	1	3	1	10
	5001250121	<i>Nephtys assignis</i>	0	1	0	0	0	1
	5001260103	<i>Sphaerodoropsis sphaerutifer</i>	2	0	3	0	3	8
	5001270101	<i>Glycera capitata</i>	11	12	4	4	10	41
	5001270104	<i>Glycera americana</i>	0	0	0	0	1	1
	500128029999	<i>Goniada brunnea/maculata</i>	2	2	3	5	4	16
	50012901	<i>Onuphis</i> spp.	0	2	0	0	0	2
	50013101	<i>Lumbrineris</i> spp.	0	4	0	0	0	4
	5001310109	<i>Lumbrineris luti</i>	4	7	11	9	16	47
	5001310195	<i>Lumbrineris</i> sp. gr. 3	0	1	0	0	0	1
	5001310197	<i>Lumbrineris</i> sp. gr. 1	16	18	10	14	16	74
	500133010402	<i>Driloneris falcata minor</i>	0	1	0	0	0	1
	5001400102	<i>Leitoscoloplos pugettensis</i>	1	4	3	6	5	19
	5001400301	<i>Scoloplos armiger</i>	0	0	0	1	0	1
	5001400311	<i>Scoloplos acmeceps</i>	0	0	2	0	0	2
	5001410201	<i>Aricidea suecica</i>	1	1	0	1	0	3
	50014305	<i>Prionospio</i> spp.	1	1	0	1	0	3
	5001430502	<i>Prionospio cirrifera</i>	1	0	0	0	0	1
	5001430506	<i>Prionospio steenstrupi</i>	1	6	6	0	2	15
	5001430599	<i>Prionospio multibranchiata</i>	0	0	0	0	2	2
	5001490302	<i>Spiochaetopterus costarum</i>	7	3	6	0	10	26
	5001490401	<i>Mesochaetopterus taylori</i>	0	1	0	0	0	1
	50015004	<i>Chaetozone</i> spp.	1	1	1	0	1	4
	5001580607	<i>Ophelina acuminata</i>	1	3	0	0	0	4
	5001600302	<i>Notomastus tenuis</i>	0	1	1	0	1	3
	50016004	<i>Mediomastus</i> spp.	0	0	1	0	0	1
	50016303	<i>Maldane</i> spp.	0	0	0	0	1	1
	50016309	<i>Praxillella</i> spp.	0	1	0	0	0	1
	5001630901	<i>Praxillella gracilis</i>	0	1	0	0	0	1
	5001630903	<i>Praxillella affinis</i>	1	0	1	3	2	7
	5001631	Euclymeninae	0	1	12	2	5	20

TABLE F-2. (CONTINUED)

Station	NODC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total	
PS-04	5520050201	Lyonsia arenosa	0	2	4	1	1	8	
	5520050205	Lyonsia pugetensis	1	0	0	0	0	1	
	5520080103	Asthenothaerus villosior	0	1	1	0	0	2	
	611103	Cylindroleberididae	0	1	1	0	0	2	
	6111060103	Rutiderma lomae	1	2	1	1	9	14	
	6111070301	Euphilomedes carcharodonta	91	94	67	67	47	366	
	6111070303	Euphilomedes producta	38	36	23	56	76	229	
	6118070299	Aetideus divergens	0	0	1	0	0	1	
	6154070103	Campylaspis rubicunda	0	1	0	0	1	2	
	6154070105	Campylaspis hartae	0	1	0	1	1	3	
	6157020103	Leptochelia dubia	2	4	0	0	1	7	
	6157020203	Leptognathia longiremus	0	0	1	0	1	2	
	6157020204	Leptognathia brevimana	0	1	0	0	0	1	
	6160011601	Haliophasma geminata	1	1	0	1	0	3	
	61690201	Ampelisca spp.	0	0	0	1	0	1	
	6169020111	Ampelisca agassizi	0	0	0	0	1	1	
	6169020113	Ampelisca hancocki	0	0	0	1	1	2	
	6169020135	Ampelisca careyi	1	0	0	0	1	2	
	6169020208	Byblis millsii	3	0	3	4	2	12	
	61690602	Aoroides spp	0	0	0	0	0	0	
	61690602	Aoroides spp	0	0	0	0	1	1	
	616934	Lysianassidae	1	0	0	0	0	1	
	61693414	Hippomedon spp.	0	2	0	0	0	2	
	6169342802	Opisa tridentata	2	0	1	0	0	3	
	6169342903	Orchomene pacifica	1	0	2	1	1	5	
	6169345701	Prachynella lodo	0	0	0	0	1	1	
	6169371502	Westwoodilla caecula	0	1	1	0	1	3	
	61830402	Callianassa spp.	0	0	3	0	0	3	
	61890604	Pinnixa spp.	1	0	2	0	2	5	
	7200020104	Golfingia pugettensis	2	0	1	1	0	4	
	7700010102	Phoronopsis harmeri	0	0	1	0	1	2	
	8129030110	Amphiodia psara	0	0	0	0	1	1	
	8401	Ascidiacea	0	0	0	0	1	1	
	8406030402	Eugyra arenosa	0	0	1	2	0	3	
			375	529	438	373	476	2191	Sum
			3	4	3	3	4	16	Ave
			102	176	106	89	104	2576	Var
			0	0	0	0	0	0	Min
			91	94	70	67	76	366	Max

Number of Observations: 134

TABLE F-2. (CONTINUED)

Station	NOOC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total
SD-02	3754020201	<i>Ptilosarcus gurneyi</i>	1	3	6	7	3	20
	430302	Lineidae	0	1	0	0	0	1
	43030204	<i>Lineus</i> spp.	0	0	2	0	0	2
	43030205	<i>Micrura</i> spp.	6	9	3	4	5	27
	430606029998	<i>Tetrastemma</i> sp. C (Everett Harbor only)	1	0	0	0	0	1
	5001020810	<i>Harmothoe lunulata</i>	1	0	2	4	0	7
	5001130102	<i>Phyllodoce</i> (<i>Anaitides</i>) <i>groenlandica</i>	0	2	0	0	0	2
	50011302	<i>Eteone</i> spp.	1	1	0	0	0	2
	5001130205	<i>Eteone longa</i>	0	8	1	3	1	13
	5001131402	<i>Phyllodoce</i> (<i>Aponaitides</i>) <i>hartmanae</i>	0	0	0	1	0	1
	5001210102	<i>Gyptis brevipalpa</i>	0	0	0	0	1	1
	5001230308	<i>Syllis elongata</i>	0	1	1	0	0	2
	5001250103	<i>Nephtys caeca</i>	0	0	0	0	2	2
	5001250111	<i>Nephtys ferruginea</i>	4	2	5	4	2	17
	5001270101	<i>Glycera capitata</i>	1	3	1	0	2	7
	500128029999	<i>Goniada brunnea</i> / <i>maculata</i>	0	0	0	0	1	1
	50012901	<i>Onuphis</i> spp.	1	0	0	0	1	2
	5001290111	<i>Onuphis elegans</i>	0	1	0	0	0	1
	5001310109	<i>Lumbrineris luti</i>	9	8	5	6	6	34
	5001310197	<i>Lumbrineris</i> sp. gr. 1	8	11	7	7	9	42
	5001400102	<i>Leitoscoloplos pugettensis</i>	11	10	9	2	10	42
	5001400301	<i>Scoloplos armiger</i>	0	0	3	1	2	6
	5001410201	<i>Aricidea suecica</i>	2	18	9	11	5	45
	5001430431	<i>Polydora cardalia</i>	5	1	2	2	1	11
	5001430506	<i>Prionospio steenstrupi</i>	3	4	2	1	0	10
	5001430703	<i>Spio cirrifera</i>	1	1	0	3	1	6
	5001431004	<i>Spiophanes berkelyorum</i>	1	0	0	0	0	1
	5001490302	<i>Spiochaetopterus costarum</i>	18	7	11	12	7	55
	50014904	<i>Mesochaetopterus</i> spp.	0	0	2	0	0	2
	5001490401	<i>Mesochaetopterus taylori</i>	7	13	4	13	4	41
	50015003	<i>Tharyx</i> spp.	2	1	1	0	4	8
	5001580607	<i>Ophelina acuminata</i>	2	2	1	3	1	9
	50016002	<i>Heteromastus</i> spp.	0	1	0	4	2	7
	5001600203	<i>Heteromastus filobranchus</i>	0	0	0	3	0	3
	5001600303	<i>Notomastus lineatus</i>	0	0	0	0	2	2
	50016004	<i>Mediomastus</i> spp.	3	5	2	3	0	13
	5001600601	<i>Barantolla americana</i>	2	1	4	7	0	14
	5001630802	<i>Axiothella rubrocincta</i>	1	1	1	0	1	4
	5001631	Euclymeninae	8	4	2	7	16	37
	5001660303	<i>Pectinaria granulata</i>	0	0	0	2	0	2
	5001660304	<i>Pectinaria californiensis</i>	0	1	1	1	1	4
	5001670214	<i>Ampharete finmarchica</i>	0	0	1	0	1	2
	5001670401	<i>Lysippe labiata</i>	2	1	0	1	1	5
	5001670801	<i>Asabellides sibirica</i>	0	1	0	0	0	1
	500168	Terebellidae	4	3	1	2	0	10
	50016807	<i>Pista</i> spp.	1	2	4	3	0	10
	500168079998	<i>Pista</i> sp. II (Banse 1979)	0	0	0	1	0	1
	50016808	<i>Polycirrus</i> spp.	11	14	2	25	24	76
	5001681002	<i>Thelepus hamatus</i>	1	1	0	0	0	2
	5001681004	<i>Thelepus setosus</i>	0	0	2	0	3	5

TABLE F-2. (CONTINUED)

Station NOOC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total	
SD-02		0	0	0	0	0	1	Min
		198	202	190	162	176	928	Max

Number of Observations: 96

TABLE F-2. (CONTINUED)

Station	NOCC Code	Taxa Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total
SR-08	43020101	Tubulanus spp.	0	1	0	0	0	1
	430302	Lineidae	7	0	0	0	0	7
	43030202	Cerebratulus spp.	0	1	0	0	4	5
	43030205	Micrura spp.	21	16	28	12	37	114
	430605	Amphiporidae	0	0	1	0	0	1
	43060501	Amphiporus spp.	0	1	2	0	0	3
	5001020810	Harmothoe lunulata	1	0	1	0	0	2
	5001021	Harmothoinae	0	1	1	1	1	4
	5001060101	Pholoe minuta	0	0	0	1	2	3
	5001130102	Phyllodoce (Anaitides) groenlandica	0	0	0	1	0	1
	50011303	Eulalia (Eulalia) spp.	0	0	0	0	1	1
	50011311	Eulalia (Eumida) spp.	0	0	0	0	1	1
	5001131101	Eulalia (Eumida) sanguinea	1	2	1	0	0	4
	5001210102	Gyptis brevipalpa	0	0	0	0	1	1
	5001240501	Platynereis bicanaliculata	0	8	9	3	15	35
	5001250102	Nephtys ciliata	0	0	0	0	1	1
	5001270101	Glycera capitata	0	0	0	1	0	1
	5001280101	Glycinde picta	10	10	15	15	15	65
	5001280103	Glycinde armigera	0	0	0	1	0	1
	5001290202	Diopatra ornata	0	0	1	2	0	3
	5001310109	Lumbrineris luti	7	1	4	7	9	28
	5001310194	Lumbrineris sp. gr. 4	0	1	0	3	0	4
	5001310195	Lumbrineris sp. gr. 3	0	1	0	2	1	4
	5001310197	Lumbrineris sp. gr. 1	5	8	2	4	2	21
	5001400102	Leitoscoloplos pugettensis	1	0	4	5	3	13
	5001400311	Scoloplos acmeceps	0	0	0	0	1	1
	5001410201	Aricidea suecica	0	1	1	1	7	10
	50014305	Prionospio spp.	0	1	0	4	0	5
	5001430502	Prionospio cirrifera	1	0	2	4	2	9
	5001430506	Prionospio steenstrupi	2	0	3	0	9	14
	5001430599	Prionospio multibranchiata	1	1	15	1	6	24
	5001490302	Spiochaetopterus costarum	0	1	0	1	0	2
	500150	Cirratulidae	0	1	0	3	0	4
	50015003	Tharyx spp.	2	2	3	0	4	11
	50015004	Chaetozone spp.	0	0	1	0	0	1
	5001580202	Armandia brevis	1	2	3	1	0	7
	5001600101	Capitella capitata	1	0	0	0	0	1
	50016002	Heteromastus spp.	5	4	17	3	7	36
	5001600203	Heteromastus filobranchus	3	1	9	2	15	30
	50016004	Mediomastus spp.	3	0	5	5	5	18
	5001600601	Barantolla americana	2	3	9	2	5	21
	5001631	Euclymeninae	0	0	0	1	1	2
	50016311	Euclymene spp.	1	0	0	0	0	1
	5001660303	Pectinaria granulata	12	20	17	21	10	80
	5001660304	Pectinaria californiensis	0	0	1	1	0	2
	500168	Terebellidae	1	0	2	0	1	4
	50016808	Polycirrus spp.	2	0	1	0	3	6
	51032001	Alvania spp.	0	1	6	7	2	16
	5105080101	Nassarius mendicus	0	0	0	2	0	2
	51100601	Aglaja spp.	0	0	1	0	1	2

TABLE F-2. (CONTINUED)

Station NOOC Code	Taxa. Name	Rep1	Rep2	Rep3	Rep4	Rep5	Total	
SR-08		193	257	531	385	422	1788	Sum
		2	3	5	4	4	18	Ave
		32	50	185	73	108	1821	Var
		0	0	0	0	0	1	Min
		47	61	214	60	82	364	Max

Number of Observations: 100

APPENDIX G

RELATIVE AND ABSOLUTE ABUNDANCES OF THE
FIVE NUMERICALLY DOMINANT TAXA OF
BENTHIC INFAUNA AT EACH STATION

APPENDIX G. RELATIVE AND ABSOLUTE ABUNDANCES OF THE FIVE
 NUMERICALLY DOMINANT TAXA OF BENTHIC INFAUNA
 AT EACH STATION

PORT SUSAN STATIONS

Taxa	Abundance #/m ²		
	PS-02	PS-03	PS-04
<u>Psephidia lordi</u>	1,894	468	338
<u>Euphilomedes charcharodonta</u>	368	694	732
<u>Clinocardium nuttalli</u>	318		
<u>Leitoscoloplos pugettensis</u>	236		
<u>Axinopsida serricata</u>	186		
<u>Pectinaria granulata</u>		494	562
<u>Euphilomedes producta</u>		238	458
<u>Macoma balthica</u>		236	
<u>Pista spp.</u>			480
Total abundance	3,002	2,130	2,570
Relative abundance (%)	67.9	53.9	58.7

APPENDIX G. (Continued)

SNOHOMISH RIVER AND DELTA STATIONS

Taxa	Abundance #/m ²			
	SD-01	SD-02	SR-07	SR-08
<u>Archaeomysis grebnitzkii</u>	92			
<u>Grandifoxus grandus</u>	76			
<u>Mya arenaria</u>	26			
<u>Tetrastemma candidum</u>	24			
<u>Macoma balthica</u>	16			
<u>Euphilomedes charcharodonta</u>		1,856		
<u>Axinopsida serricata</u>		1,020		728
<u>Rhepoxynius variatus</u>		338		
<u>Psephidia lordi</u>		226		170
<u>Polycirrus spp.</u>			152	
<u>Macoma nasuta</u>			124	
<u>Tharyx spp.</u>			88	
<u>Macoma carlottensis</u>			62	
<u>Heteromastus filobranchus</u>			52	
<u>Barantolla americana</u>			48	
<u>Photis brevipes</u>				282
<u>Micura spp.</u>				228
<u>Pectinaria granulata</u>				160
Total abundance	234	3,592	374	1,568
Relative abundance %	78.0	68.5	61.4	44.0

APPENDIX H

RELATIVE ABUNDANCE OF OPPORTUNISTIC AND
POLLUTION-TOLERANT TAXA OF BENTHIC INFAUNA

APPENDIX H. RELATIVE ABUNDANCE (AS PERCENT FAUNA) OF
OPPORTUNISTIC AND POLLUTION-TOLERANT TAXA
OF BENTHIC INFAUNA

Taxon	Station		
	PS-02	PS-03	PS-04
Nematoda	0.1		0.1
<u>Phyllodoce (Anaitides)</u>			
<u>groenlandica</u>	<0.1	0.1	0.1
<u>Eteone</u> spp.	0.1		0.2
<u>Eteone longa</u>	0.1	0.1	0.1
<u>Eulalia (Eumida) sanguinea</u>			0.1
<u>Nephtys ciliata</u>			
<u>Nephtys cornuta</u>			0.1
<u>Nephtys cornuta franciscana</u>			
<u>Glycinde picta</u>		0.2	
<u>Goniada brunnea/maculata</u>	0.3	0.6	0.7
<u>Schistomeringos rudolphi</u>			
<u>Leitoscoloplos pugettensis</u>	5.3	3.4	<0.1
<u>Scoloplos armiger</u>	0.5	0.2	0.1
<u>Prionospio cirrifera</u>	0.1		0.7
<u>Prionospio steenstrupi</u>	0.3	0.5	0.1
<u>Polydora kempfi</u>			
<u>Cirratulus cirratus</u>			
<u>Tharyx</u> spp.	0.1	<0.1	
<u>Tharyx multifilis</u>			
<u>Armandia brevis</u>			
<u>Capitella capitata</u>			
<u>Heteromastus</u> spp.			
<u>Heteromastus filiformis</u>			
<u>Heteromastus filibranchus</u>			
<u>Mediomastus</u> spp.	0.5	<0.1	0.8
Oligochaeta			
<u>Mytilus edulis</u>			
<u>Macoma calcarea</u>			
<u>Macoma balthica</u>	1.6	6.0	
<u>Macoma nasuta</u>			1.0
<u>Mya arenaria</u>	0.1	<0.1	0.1
<u>Euphilomedes carcharodonta</u>	8.3	17.6	16.7
<u>Euphilomedes producta</u>	1.3	6.0	10.5
<u>Corophium acherusicum</u>			
<u>Nebalia</u> spp.			
Total	18.7	34.7	31.4

APPENDIX H. (Continued)

Taxon	Station					
	NG-01	NG-02	NG-03	NG-04	NG-06	NG-10
Nematoda	0.1		<0.1		<0.1	<0.1
<u>Phyllodoce</u> (<u>Anaitides</u>)						
<u>groenlandica</u>	0.1				<0.1	0.1
<u>Eteone</u> spp.	0.3	0.1			<0.1	<0.1
<u>Eteone longa</u>	0.3	0.2		<0.1	0.1	<0.1
<u>Eulalia</u> (<u>Eumida</u>) <u>sanguinea</u>	0.1		<0.1	0.1	0.2	0.1
<u>Nephtys ciliata</u>	0.2	0.2		0.2	0.1	
<u>Nephtys cornuta</u>						
<u>Nephtys cornuta franciscana</u>						
<u>Glycinde picta</u>	<0.1	0.6	0.1		0.6	0.5
<u>Goniada brunnea</u> / <u>maculata</u>	0.2		<0.1			
<u>Schistomeringos rudolphi</u>			<0.1			0.1
<u>Leitoscoloplos pugettensis</u>	5.2	1.0	0.1	0.3	0.8	0.3
<u>Scoloplos armiger</u>	0.5	10.4	2.3	0.8	<0.1	0.2
<u>Prionospio cirrifera</u>						<0.1
<u>Prionospio steenstrupi</u>	1.2	2.3	<0.1	0.2	0.8	2.1
<u>Polydora kempfi</u>						
<u>Cirratulus cirratus</u>						
<u>Tharyx</u> spp.	0.6	0.1	0.1	<0.1	0.1	0.1
<u>Tharyx multifilis</u>	0.1					
<u>Armandia brevis</u>		0.2				0.3
<u>Capitella capitata</u>	0.3					0.1
<u>Heteromastus</u> spp.						
<u>Heteromastus filiformis</u>						<0.1
<u>Heteromastus filibranchus</u>						
<u>Mediomastus</u> spp.	<0.1				<0.1	1.6
Oligochaeta						0.2
<u>Mytilus edulis</u>						
<u>Macoma calcarea</u>						
<u>Macoma balthica</u>	<0.1	0.2		0.2	0.2	0.8
<u>Macoma nasuta</u>	1.3	0.2		0.2		
<u>Mya arenaria</u>	<0.1	0.5	<0.1	0.2	0.5	0.4
<u>Euphilomedes carcharodonta</u>	36.5	48.0	25.0	27.0	15.2	11.6
<u>Euphilomedes producta</u>	1.9		<0.1		0.6	<0.1
<u>Corophium acherusicum</u>						
<u>Nebalia</u> spp.	0.2	0.5	<0.1		<0.1	0.3
Total	49.1	64.5	27.6	29.2	19.2	18.8

APPENDIX I

RANKING OF TIER II PROBLEM AREAS

APPENDIX I. RANKING OF TIER II PROBLEM AREAS

Station	Chemistry		Biology				Ranking						Chemistry Score	Biology Score
	90%	HAET	Bioassay	Infauna	Bioaccum.	Pathology	Metals	Organics	Bioassay	Infauna	Bioaccum.	Pathol.		
ES-03		x		n	n	n	0	3	0	n	n	n	38	0
EW-01	x	x	P	P			2	3	4	4	0	0	63	50
EW-04	x	x	P	P			2	4	4	4	0	0	75	50
EW-07	x	x	P	P			0	4	4	4	0	0	50	50
EW-10		x		P			0	4	4	1	0	0	50	31
EW-11		x	n	n			0	3	n	n	0	0	38	0
EW-12		x					0	3	0	0	0	0	38	0
EW-13	x	x	n	n			2	4	n	n	0	0	75	0
EW-14		x		s			4	4	0	1	0	0	100	6
EW-15		x	n	n			0	3	n	n	0	0	38	0
EW Average													58	21
NG-04		x	P	s			0	3	4	1	0	0	38	31
NG-05		x	n	n			0	3	n	n	0	0	38	0
NG-07		x	n	n			0	2	n	n	0	0	25	0
NG-08		x	n	n			0	2	n	n	0	0	25	0
NG-09		x	n	n			0	3	n	n	0	4	38	50
NG-10		x					0	3	0	0	0	4	38	25
NG-11		x	n	n			0	3	n	n	0	4	38	50
NG-14		x		n	n	n	0	3	0	n	n	n	38	0
NG Average													34	20
OG-01		x	n	n	n	n	0	2	n	n	n	n	25	n
SD-01				P	n	n	0	1	0	4	n	n	13	50
SD-03		x	n	n			0	2	n	n	0	0	25	0
SR-05		x	n	n	n	n	0	3	n	n	n	n	38	n
SR-07				P	n	n	2	0	0	4	n	n	25	50

NOTES:

x = Exceedance of 90th percentile or the highest apparent effects threshold (HAET) for any one chemical. The 90th percentile criterion was applied only to chlorinated phenols/guaiacols and resin acids, which do not have established AET.

s = Statistically significant (P<0.001) biological effect relative to reference area.

P = Statistically significant (P<0.001) biological effect that was above action level for definition of a problem area based on a single indicator

n = No data.

Numbers in table are tank scores derived from criteria explained in text.

APPENDIX J

APPLICATION OF LAET AND HAET
TO EVERETT HARBOR DATA

SEDIMENT QUALITY VALUES COMPARISON

The sediment quality criteria used for the test are:
 Highest of AMPT, BENA, MICB, and OYST.
 Lowest of AMPT, BENA, MICB, and OYST.

The values used are based on:
 Dry-weight values, no transformation.

Data columns in the output identify, in order from left to right:
 Chemical name
 Concentration
 Measurement units
 Qualifier code of the chemical measurement
 Measurement basis
 Factor by which the concentration exceeds the AET
 If an asterisk appears, the AET value was qualified with a "G."

Survey: EVCHEM Station: ES-03
 =====

Date: 10/06/86 Sample ID: ES-03G

Highest of AMPT, BENA, MICB, and OYST.

4-METHYL PHENOL	1400	PPB	DRY	1.17
BENZOIC ACID	760	PPB E	DRY	1.17

Lowest of AMPT, BENA, MICB, and OYST.

4-METHYL PHENOL	1400	PPB	DRY	2.09
BENZOIC ACID	760	PPB E	DRY	1.17
PHENOL	1200	PPB Z	DRY	1.79

Survey: EVCHEM Station: EW-01
 =====

Date: 10/07/86 Sample ID: EW-01G Field rep: EW01

Highest of AMPT, BENA, MICB, and OYST.

4-METHYL PHENOL	6000	PPB	DRY	5.00
PHENOL	1600	PPB Z	DRY	1.33

Date: 09/30/86 Sample ID: EW-07G Field rep: EW07

Highest of AMPT, BENA, MICB, and OYST.

2-METHYLNAPHTHALENE	7400	PPB	DRY	11.04
2-METHYLPHENOL	330	PPB LM	DRY	5.24
2,4-DIMETHYL PHENOL	100	PPB LM	DRY	3.45
4-METHYL PHENOL	98000	PPB	DRY	81.67
ACENAPHTHENE	1800	PPB	DRY	1.84
DIBENZOFURAN	1600	PPB	DRY	2.96
POLYCYCLIC AROMATIC HYDROCARBON-LIGHT	23000	PPB	DRY	3.77
NAPHTHALENE	17000	PPB	DRY	7.08

Lowest of AMPT, BENA, MICB, and OYST.

2-METHYLNAPHTHALENE	7400	PPB	DRY	11.04
2-METHYLPHENOL	330	PPB LM	DRY	5.24
2,4-DIMETHYL PHENOL	100	PPB LM	DRY	3.45
4-METHYL PHENOL	98000	PPB	DRY	146.27
ACENAPHTHENE	1800	PPB	DRY	3.60
ANTHRACENE	1200	PPB	DRY	1.25
DIBENZOFURAN	1600	PPB	DRY	2.96
FLUORENE	1400	PPB	DRY	2.59
POLYCYCLIC AROMATIC HYDROCARBON-LIGHT	23000	PPB	DRY	4.42
NAPHTHALENE	17000	PPB	DRY	8.10
PHENANTHRENE	1700	PPB	DRY	1.13
PHENOL	1000	PPB	DRY	1.49

Survey: EVCHEM Station: EW-10

Date: 10/01/86 Sample ID: EW-10G Field rep: EW10

Highest of AMPT, BENA, MICB, and OYST.

4-METHYL PHENOL	26000	PPB X	DRY	21.67
PHENOL	2900	PPB	DRY	2.42

Lowest of AMPT, BENA, MICB, and OYST.

4-METHYL PHENOL	26000	PPB X	DRY	38.81
CHRYSENE	1700	PPB	DRY	1.21
MERCURY	0.47	PPM	DRY	1.15
NAPHTHALENE	2200	PPB X	DRY	1.05
PHENOL	2900	PPB	DRY	4.33

Survey: EVCHEM Station: EW-11

Date: 09/30/86 Sample ID: EW-11G

PHENOL	1200	PPB	DRY	1.79
PYRENE	3000	PPB	DRY	1.15
TOTAL ORGANIC CARBON	22.7	PCT	DRY	1.51
ZINC	270	PPM	DRY	1.04

Survey: EVCHEM Station: EW-14

=====

Date: 10/01/86 Sample ID: EW-14G Field rep: EW14

.....

Highest of AMPT, BENA, MICB, and OYST.

.....

2-METHYLNAPHTHALENE	6400	PPB	DRY	9.55
4-METHYL PHENOL	15000	PPB	DRY	12.50
ACENAPHTHENE	5200	PPB	DRY	5.31
ACENAPHTHYLENE	800	PPB	DRY	1.25
ANTHRACENE	6100	PPB	DRY	3.21
BENZOIC ACID	5900	PPB	DRY	9.08
COPPER	1000	PPM	DRY	1.25
DIBENZOFURAN	5000	PPB	DRY	9.26
DIBENZOTHIOPHENE	280	PPB	DRY	1.12
FLUORENE	4300	PPB	DRY	2.39
POLYCYCLIC AROMATIC HYDROCARBON-LIGHT	28000	PPB	DRY	4.59
NAPHTHALENE	7000	PPB	DRY	2.92
PHENOL	1300	PPB	DRY	1.08
ZINC	5900	PPM	DRY	3.69

Lowest of AMPT, BENA, MICB, and OYST.

.....

2-METHYLNAPHTHALENE	6400	PPB	DRY	9.55
DIBENZO(A,H)ANTHRACENE	270	PPB	DRY	1.17
4-METHYL PHENOL	15000	PPB	DRY	22.39
ACENAPHTHENE	5200	PPB	DRY	10.40
ACENAPHTHYLENE	800	PPB	DRY	1.43
ANTHRACENE	6100	PPB	DRY	6.35
ARSENIC	690	PPM	DRY	8.12
BENZO(A)ANTHRACENE	3200	PPB	DRY	2.46
BENZO(A)PYRENE	1700	PPB	DRY	1.06
BENZOIC ACID	5900	PPB	DRY	9.08
CADMIUM	7.9	PPM	DRY	1.36
CHRYSENE	3200	PPB	DRY	2.29
COPPER	1000	PPM	DRY	3.23
DIBENZOFURAN	5000	PPB	DRY	9.26
DIBENZOTHIOPHENE	280	PPB	DRY	1.17
FLUORANTHENE	3400	PPB	DRY	2.00
FLUORENE	4300	PPB	DRY	7.96
POLYCYCLIC AROMATIC HYDROCARBON-HEAVY	23000	PPB	DRY	1.92
INDENO(1,2,3-CD)PYRENE	730	PPB	DRY	1.22
LEAD	520	PPM	DRY	1.73
POLYCYCLIC AROMATIC HYDROCARBON-LIGHT	28000	PPB	DRY	5.38
MERCURY	0.78	PPM	DRY	1.90
NAPHTHALENE	7000	PPB	DRY	3.33
PHENANTHRENE	4800	PPB	DRY	3.20
PHENOL	1300	PPB	DRY	1.94

Highest of AMPT, BENA, MICB, and OYST.

.....
4-METHYL PHENOL 9700 PPB X DRY 8.08
BENZOIC ACID 2100 PPB X DRY 3.23

Lowest of AMPT, BENA, MICB, and OYST.

.....
4-METHYL PHENOL 9700 PPB X DRY 14.48
BENZOIC ACID 2100 PPB X DRY 3.23

Survey: EVCHEM Station: NG-07

=====

Date: 10/02/86 Sample ID: NG-07G

.....
Highest of AMPT, BENA, MICB, and OYST.

.....
BENZOIC ACID 1700 PPB X DRY 2.62

Lowest of AMPT, BENA, MICB, and OYST.

.....
BENZOIC ACID 1700 , PPB X DRY 2.62

Survey: EVCHEM Station: NG-08

=====

Date: 10/02/86 Sample ID: NG-08G

.....
Highest of AMPT, BENA, MICB, and OYST.

.....
BENZOIC ACID 1300 PPB X DRY 2.00

Lowest of AMPT, BENA, MICB, and OYST.

.....
4-METHYL PHENOL 930 PPB X DRY 1.39
BENZOIC ACID 1300 PPB X DRY 2.00

Survey: EVCHEM Station: NG-09

=====

Date: 10/03/86 Sample ID: NG-09G

.....
Highest of AMPT, BENA, MICB, and OYST.

.....
4-METHYL PHENOL 2400 PPB DRY 2.00
POLYCHLORINATED BIPHENYLS 5500 PPB E DRY 2.20
PHENOL 2100 PPB DRY 1.75

Lowest of AMPT, BENA, MICB, and OYST.

.....
Highest of AMPT, BENA, MICB, and OYST.
.....

4-METHYL PHENOL	2100	PPB	DRY	1.75
-----------------	------	-----	-----	------

.....
Lowest of AMPT, BENA, MICB, and OYST.
.....

4-METHYL PHENOL	2100	PPB	DRY	3.13
PHENOL	1200	PPB Z	DRY	1.79

Survey: EVCHEM Station: NG-15
=====

Date: 10/15/86 Sample ID: NG-15G
.....

.....
Lowest of AMPT, BENA, MICB, and OYST.
.....

4-METHYL PHENOL	760	PPB	DRY	1.13
PHENOL	710	PPB Z	DRY	1.06

Survey: EVCHEM Station: OG-01
=====

Date: 10/09/86 Sample ID: OG-01G
.....

.....
Highest of AMPT, BENA, MICB, and OYST.
.....

4-METHYL PHENOL	1300	PPB	DRY	1.08
-----------------	------	-----	-----	------

.....
Lowest of AMPT, BENA, MICB, and OYST.
.....

4-METHYL PHENOL	1300	PPB	DRY	1.94
-----------------	------	-----	-----	------

Survey: EVCHEM Station: OG-02
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Date: 10/09/86 Sample ID: OG-02G
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.....
Lowest of AMPT, BENA, MICB, and OYST.
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4-METHYL PHENOL	1000	PPB	DRY	1.49
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Survey: EVCHEM Station: OG-03
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Date: 10/09/86 Sample ID: OG-03G Field rep: OG03
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Survey: EVCHEM Station: SR-04

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Date: 10/06/86 Sample ID: SR-04G

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Lowest of AMPT, BENA, MICB, and OYST.

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4-METHYL PHENOL	980	PPB	DRY	1.46
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Survey: EVCHEM Station: SR-05

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Date: 10/06/86 Sample ID: SR-05G

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Highest of AMPT, BENA, MICB, and OYST.

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4-METHYL PHENOL	2000	PPB	DRY	1.67
BENZOIC ACID	1000	PPB	DRY	1.54

Lowest of AMPT, BENA, MICB, and OYST.

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4-METHYL PHENOL	2000	PPB	DRY	2.99
BENZOIC ACID	1000	PPB	DRY	1.54

Survey: EVCHEM Station: SS-01

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Date: 10/06/86 Sample ID: SS-01G

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Lowest of AMPT, BENA, MICB, and OYST.

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N-NITROSO DIPHENYLAMINE	48	PPB	DRY	1.20
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Survey: EVCHEM Station: SS-03

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Date: 10/06/86 Sample ID: SS-03G

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Lowest of AMPT, BENA, MICB, and OYST.

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4-METHYL PHENOL	930	PPB	DRY	1.39
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