Appendix G

Supporting Data

2009 Regional Stations

Sediment Conditions

Appendix G.1

Summary of the constituents that make up total HCH, total chlordane, total DDT, total PCB, and total PAH in each sediment sample collected as part of the 2009 regional survey.

Station	Class	Constituent	Value	Units
2651	PCB	PCB 153/168	43	ppt
2651	DDT	p,p-DDE	730	ppt
2656	DDT	p,p-DDE	420	ppt
2656	DDT	p,p-DDT	170	ppt
2659	DDT	p,p-DDE	320	ppt
2661	DDT	p,p-DDT	320	ppt
2662	DDT	p,p-DDE	450	ppt
2663	DDT	p,p-DDE	330	ppt
2664	PCB	PCB 180	330	ppt
2664	DDT	p,p-DDE	320	ppt
2667	DDT	p,p-DDE	450	ppt
2668	PCB	PCB 101	400	ppt
2668	PCB	PCB 110	83	ppt
2668	PCB	PCB 118	160	ppt
2668	PCB	PCB 138	390	ppt
2668	PCB	PCB 149	110	ppt
2668	PCB	PCB 153/168	100	ppt
2668	PCB	PCB 187	60	ppt
2668	DDT	p,p-DDE	920	ppt
2673	DDT	p,p-DDE	390	ppt
2674	PCB	PCB 110	130	ppt
2674	PCB	PCB 118	160	ppt
2674	DDT	p,p-DDD	95	ppt
2674	DDT	p,p-DDE	750	ppt
2674	DDT	p,p-DDT	300	ppt
2675	PAH	Benzo[A]anthracene	20.1	ppb
2675	PCB	PCB 49	270	ppt
2675	PCB	PCB 110	82	ppt
2675	PCB	PCB 138	250	ppt
2675	PCB	PCB 149	300	ppt
2675	PCB	PCB 153/168	240	ppt
2675	PCB	PCB 177	220	ppt
2675	PCB	PCB 180	970	ppt
2675	DDT	p,p-DDD	170	ppt
2675	DDT	p,p-DDE	660	ppt
2675	DDT	p,p-DDT	520	ppt

Appendix G.1 *continued*

Station	Class	Constituent	Value	Units
2676	PAH	3,4-benzo[B]fluoranthene	25.1	ppb
2676	PAH	Anthracene	27.2	ppb
2676	PAH	Benzo[A]anthracene	24.7	ppb
2676	PAH	Chrysene	48.0	ppb
2676	PAH	Fluoranthene	23.2	ppb
2676	PAH	Pyrene	39.7	ppb
2676	PCB	PCB 49	76	ppt
2676	PCB	PCB 52	1500	ppt
2676	PCB	PCB 66	76	ppt
2676	PCB	PCB 70	230	ppt
2676	PCB	PCB 99	150	ppt
2676	PCB	PCB 101	760	ppt
2676	PCB	PCB 118	470	ppt
2676	PCB	PCB 128	210	ppt
2676	PCB	PCB 138	460	ppt
2676	PCB	PCB 149	430	ppt
2676	PCB	PCB 153/168	270	ppt
2676	PCB	PCB 156	48	ppt
2676	PCB	PCB 177	87	ppt
2676	PCB	PCB 180	1100	ppt
2679	DDT	p,p-DDE	120	ppt
2681	PCB	PCB 49	460	ppt
2681	PCB	PCB 52	360	ppt
2681	PCB	PCB 66	240	ppt
2681	PCB	PCB 70	240	ppt
2681	PCB	PCB 99	240	ppt
2681	PCB	PCB 101	840	ppt
2681	PCB	PCB 105	120	ppt
2681	PCB	PCB 110	590	ppt
2681	PCB	PCB 118	440	ppt
2681	PCB	PCB 128	150	ppt
2681	PCB	PCB 138	510	ppt
2681	PCB	PCB 149	410	ppt
2681	PCB	PCB 153/168	270	ppt
2681	PCB	PCB 156	56	ppt
2681	PCB	PCB 158	52	ppt
2681	PCB	PCB 177	190	ppt
2681	PCB	PCB 180	690	ppt
2681	DDT	o,p-DDD	77	ppt
2681	DDT	p,p-DDD	210	ppt
2681	DDT	p,p-DDE	820	ppt

Appendix G.1 *continued*

Station	Class	Constituent	Value	Units
2682	PAH	3,4-benzo[B]fluoranthene	27.3	ppb
2682	PAH	Benzo[A]anthracene	25.0	ppb
2682	PAH	Benzo[A]pyrene	22.9	ppb
2682	PAH	Chrysene	46.4	ppb
2682	PAH	Fluoranthene	22.7	ppb
2682	PAH	Pyrene	20.7	ppb
2682	PCB	PCB 28	620	ppt
2682	PCB	PCB 44	1300	ppt
2682	PCB	PCB 49	1600	ppt
2682	PCB	PCB 52	2200	ppt
2682	PCB	PCB 66	2000	ppt
2682	PCB	PCB 70	1800	ppt
2682	PCB	PCB 74	770	ppt
2682	PCB	PCB 87	1100	ppt
2682	PCB	PCB 99	1000	ppt
2682	PCB	PCB 101	2900	ppt
2682	PCB	PCB 105	710	ppt
2682	PCB	PCB 110	2400	ppt
2682	PCB	PCB 118	1700	ppt
2682	PCB	PCB 119	310	ppt
2682	PCB	PCB 123	150	ppt
2682	PCB	PCB 128	490	ppt
2682	PCB	PCB 138	6800	ppt
2682	PCB	PCB 149	1700	ppt
2682	PCB	PCB 151	610	ppt
2682	PCB	PCB 153/168	850	ppt
2682	PCB	PCB 156	200	ppt
2682	PCB	PCB 158	200	ppt
2682	PCB	PCB 167	130	ppt
2682	PCB	PCB 170	420	ppt
2682	PCB	PCB 177	360	ppt
2682	PCB	PCB 180	1400	ppt
2682	PCB	PCB 183	240	ppt
2682	PCB	PCB 187	410	ppt
2682	PCB	PCB 194	170	ppt
2682	PCB	PCB 201	190	ppt
2682	DDT	o,p-DDD	170	ppt
2682	DDT	p,p-DDD	580	ppt
2682	DDT	p,p-DDE	1200	ppt
2685	DDT	p,p-DDE	270	ppt
2688	DDT	p,p-DDE	140	ppt
2811	PAH	Chrysene [a]	50	ppb

Appendix G.1 *continued*

Station	Class	Constituent	Value	Units
2812	Chlordane	Alpha (cis) Chlordane	890	ppt
2812	Chlordane	Gamma (trans) Chlordane	870	ppt
2812	HCH	HCH, Beta isomer	1200	ppt
2812	HCH	HCH, Delta isomer	4000	ppt
2812	HCH	HCH, Gamma isomer	1500	ppt
2812	DDT	p,p-DDD	220	ppt
2812	DDT	p,p-DDE	770	ppt
2814	Chlordane	Alpha (cis) Chlordane	430	ppt
2814	Chlordane	Gamma (trans) Chlordane	900	ppt
2814	HCH	HCH, Beta isomer	800	ppt
2814	HCH	HCH, Delta isomer	2600	ppt
2814	DDT	p,p-DDD	170	ppt
2814	DDT	p,p-DDE	550	ppt
2815	PAH	Anthracene	21.5	ppb
2815	PAH	Chrysene [a]	42.1	ppb
2816	PAH	Chrysene [a]	45.9	ppb
2816	PCB	PCB 206	880	ppt

[a] Chrysene detections believed due to background chrysene contamination from internal standard. Likely not from chrysene present in the ocean sediment sample.

Appendix G.2

Summary of particle size parameters for the 2009 regional survey stations. SD = standard deviation; abbreviated observations are: Sh = shell hash; G = gravel; R = rock; Od = organic debris; Rrs = red relict sand; Mt = mud worm tubes; Cs = coarse sand; Ct = chaetopterid tubes; St = sand worm tubes.

	Station	Depth (m)	Mean (mm)	Mean (phi)	SD (phi)	Coarse (%)	Sand (%)	Silt (%)	Clay (%)	Fines (%)	Visual Observations
Inner Shelf	2655	26	0.804	0.3	0.4	25.5	74.5	0.0	0.0	0.0	Sh, Rrs, Cs
	2657	21	0.119	3.1	0.6	0.0	91.1	8.8	0.1	8.9	
	2660	13	0.149	2.7	0.7	0.9	95.0	4.2	0.0	4.2	St
	2669	11	0.223	2.2	0.8	0.8	98.9	0.3	0.0	0.3	Sh, St
	2671	13	0.166	2.6	0.5	0.0	97.2	2.8	0.0	2.8	Sh, G, R
	2672	15	0.155	2.7	0.5	0.0	96.8	3.2	0.0	3.2	Sh, St
	2678	29	0.095	3.4	1.0	0.0	79.3	19.8	1.0	20.7	St
	2679	13	0.114	3.1	0.8	0.0	86.4	13.5	0.1	13.6	
	2683	24	0.109	3.2	0.8	0.0	89.4	10.2	0.4	10.5	
	2688	26	0.113	3.2	0.8	0.0	87.1	12.5	0.4	12.9	
	2689	14	0.106	3.2	0.8	0.0	84.9	15.0	0.1	15.1	
Mid-shelf	2653	59	0.050	4.3	1.9	0.0	54.1	40.8	5.1	45.9	Sh, G, R
	2656	78	0.042	4.6	1.6	0.0	44.0	52.4	3.6	56.0	
	2658	60	0.048	4.4	1.6	0.0	51.3	45.8	2.9	48.7	Sh
	2659	83	0.038	4.7	1.5	0.0	38.3	57.5	4.2	61.7	
	2661	64	0.047	4.4	1.6	0.0	50.8	46.4	2.8	49.2	Sh
	2664	60	0.051	4.3	1.6	0.0	55.4	41.8	2.8	44.6	
	2667	70	0.046	4.4	1.5	0.0	49.5	47.4	3.1	50.5	
	2673	51	0.060	4.1	1.5	0.0	65.1	32.2	2.6	34.9	Sh, Od
	2674	66	0.048	4.4	1.6	0.0	51.9	44.6	3.5	48.1	Sh, G
	2675	86	0.047	4.4	1.5	0.0	48.8	47.9	3.3	51.2	Sh, G, R, Cs
	2676	95	0.054	4.2	1.7	0.0	56.7	39.7	3.6	43.3	Sh, G, R, Cs
	2681	67	0.076	3.7	1.7	0.0	67.7	30.3	2.0	32.3	Sh, Od
	2682	84	0.055	4.2	1.7	0.0	58.3	38.0	3.7	41.7	Sh
	2686	43	0.468	1.1	1.1	10.3	85.3	4.4	0.0	4.4	Sh, Cs
	2687	43	0.436	1.2	0.7	7.8	91.3	0.9	0.0	0.9	Sh, Rrs, Cs
Outer Shelf	2651	163	0.044	4.5	1.8	0.0	48.4	47.0	4.7	51.6	Sh, G, Ct
	2662	147	0.048	4.4	1.7	0.0	56.2	40.0	3.9	43.8	Sh
	2663	128	0.071	3.8	0.8	4.1	53.1	42.8	0.0	42.8	Sh
	2665	177	0.037	4.7	1.6	0.0	39.3	56.8	3.9	60.7	
	2668	151	0.045	4.5	1.7	0.0	51.2	44.4	4.4	48.8	Sh, Cs
	2670	169	0.263	1.9	1.4	7.1	87.6	5.3	0.0	5.3	Sh, G, R, Cs
	2680	138	0.141	2.8	1.7	0.0	81.8	16.5	1.7	18.2	Sh, G, R, Cs
	2685	122	0.072	3.8	2.1	0.0	66.6	29.4	4.0	33.4	Sh, G
Upper Slope	2811	404	0.023	5.5	1.5	0.0	17.5	76.8	5.8	82.5	
	2812	357	0.032	5.0	1.7	0.0	32.3	62.4	5.3	67.7	Mt
	2813	257	0.033	4.9	1.8	0.0	35.3	59.6	5.1	64.7	Sh, Ct
	2814	413	0.046	4.5	1.8	0.0	50.6	45.7	3.7	49.4	
	2815	349	0.027	5.2	1.7	0.0	26.8	66.3	6.9	73.2	G, Mt
	2816	335	0.025	5.3	1.5	0.0	21.8	73.3	4.9	78.2	

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Appendix G.3

Summary of particle size parameters for the 1999 regional survey stations. Due to differences in particle size analyses since 2003, the coarse and sand fractions cannot be estimated in a manner comparable to 2009 data. Visual observations are not available for these samples; SD = standard deviation; na = not available.

	Station	Depth (m)	Mean (mm)	Mean (phi)	SD (phi)	Coarse (%)	Sand (%)	Silt (%)	Clay (%)	Fines (%)
Inner Shelf	2655	27	0.660	0.6	1.0	na	na	0.0	0.0	0.0
	2657	19	0.117	3.1	0.6	na	na	7.4	0.4	7.8
	2660	12	0.144	2.8	0.4	na	na	3.7	0.0	3.7
	2669	11	0.467	1.1	0.6	na	na	0.0	0.0	0.0
	2671	12	0.233	2.1	0.6	na	na	1.0	0.0	1.0
	2672	15	0.330	1.6	0.7	na	na	0.3	0.0	0.3
	2678	30	0.102	3.3	0.9	na	na	15.8	1.1	16.9
	2679	12	0.095	3.4	1.1	na	na	20.4	0.5	20.9
	2683	23	0.109	3.2	0.6	na	na	6.8	0.4	7.2
	2688	25	0.125	3.0	0.6	na	na	7.5	0.2	7.7
	2689	13	0.134	2.9	0.8	na	na	11.7	0.4	12.1
Mid-shelf	2653	58	0.054	4.2	1.9	na	na	35.6	5.6	41.2
	2656	77	0.038	4.7	1.6	na	na	54.4	4.6	59.0
	2658	59	0.044	4.5	1.6	na	na	47.1	4.5	51.6
	2659	83	0.038	4.7	1.5	na	na	57.2	4.4	61.6
	2661	63	0.047	4.4	1.5	na	na	45.5	3.7	49.2
	2664	60	0.054	4.2	1.5	na	na	39.3	3.4	42.7
	2667	68	0.047	4.4	1.4	na	na	47.0	3.9	50.9
	2673	49	0.082	3.6	1.1	na	na	19.7	3.7	23.4
	2674	65	0.058	4.1	1.5	na	na	37.1	3.0	40.1
	2675	85	0.063	4.0	1.4	na	na	30.4	2.7	33.1
	2676	94	0.063	4.0	1.7	na	na	30.2	3.4	33.6
	2681	66	0.144	2.8	1.7	na	na	19.2	2.6	21.8
	2682	83	0.072	3.8	1.7	na	na	32.0	3.4	35.4
	2686	43	0.330	1.6	0.6	na	na	0.0	0.0	0.0
	2687	42	0.435	1.2	0.8	na	na	0.0	0.0	0.0
Outer Shelf	2651	152	0.036	4.8	1.7	na	na	45.5	6.6	52.1
	2662	146	0.054	4.2	1.6	na	na	35.3	4.3	39.6
	2663	130	0.051	4.3	1.7	na	na	36.5	4.5	41.0
	2665	180	0.031	5.0	1.7	na	na	57.7	8.3	66.0
	2668	149	0.038	4.7	1.7	na	na	48.9	4.9	53.8
	2670	168	0.250	2.0	1.5	na	na	10.5	1.6	12.1
	2680	138	0.500	1.0	0.5	na	na	0.9	0.0	0.9
	2685	121	0.102	3.3	2.4	na	na	23.7	5.3	29.0
	Minimum	11	0.031	0.6	0.4	na	na	0.0	0.0	0.0
	Maximum	180	0.660	5.0	2.4	na	na	57.7	8.3	66.0

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Appendix G.4

Concentrations of contaminants in sediments from the 2009 regional stations. TN = total nitrogen; TOC = total organic carbon; HCH = hexachlorocyclohexane; HCB = hexachlorobenzene; nd = not detected; ERL = effects range low threshold value; ERM = effects range median threshold value; na = not available; see Appendix C.1 for MDLs and periodic table symbols. Values that exceed ERL or ERM values are in bold.

	Station	Depth (m)	Sulfides (ppm)	TN (% weight)	TOC (% weight)	HCH (ppt)	Chlordane (ppt)	tDDT (ppt)	HCB (ppt)	tPCB (ppt)	tPAH (ppb)
Inner Shelf	2655	26	nd	0.065	0.753	nd	nd	nd	nd	nd	nd
	2657	21	3.56	0.020	0.294	nd	nd	nd	150	nd	nd
	2660	13	3.20	0.018	0.371	nd	nd	nd	nd	nd	nd
	2669	11	0.93	0.016	0.140	nd	nd	nd	nd	nd	nd
	2671	13	0.81	0.015	0.154	nd	nd	nd	nd	nd	nd
	2672	15	0.34	0.018	0.128	nd	nd	nd	160	nd	nd
	2678	29	17.10	0.032	0.288	nd	nd	nd	220	nd	nd
	2679	13	2.61	0.024	0.180	nd	nd	120	nd	nd	nd
	2683	24	nd	0.020	0.148	nd	nd	nd	nd	nd	nd
	2688	26	1.24	0.020	0.178	nd	nd	140	nd	nd	nd
	2689	14	1.03	0.018	0.165	nd	nd	nd	nd	nd	nd
Mid-shelf	2653	59	0.47	0.134	2.780	nd	nd	nd	240	nd	nd
	2656	78	0.48	0.080	0.929	nd	nd	590	nd	nd	nd
	2658	60	0.18	0.083	0.858	nd	nd	nd	400	nd	nd
	2659	83	0.41	0.087	0.984	nd	nd	320	310	nd	nd
	2661	64	0.75	0.062	0.721	nd	nd	320	nd	nd	nd
	2664	60	1.46	0.070	0.786	nd	nd	320	150	330	nd
	2667	70	2.96	0.071	0.857	nd	nd	450	260	nd	nd
	2673	51	1.74	0.057	0.639	nd	nd	390	410	nd	nd
	2674	66	0.37	0.073	0.850	nd	nd	1145	nd	290	nd
	2675	86	1.67	0.058	0.720	nd	nd	1350	290	2332	20.1
	2676	95	0.43	0.044	0.754	nd	nd	nd	780	5867	187.9
	2681	67	0.43	0.039	0.466	nd	nd	1107	150	5858	nd
	2682	84	2.43	0.052	0.656	nd	nd	**1950**	330	34730	165.0
	2686	43	0.17	0.014	0.099	nd	nd	nd	nd	nd	nd
	2687	43	nd	0.016	0.091	nd	nd	nd	nd	nd	nd
Outer Shelf	2651	163	33.40	0.107	1.290	nd	nd	730	320	43	nd
	2662	147	1.77	0.065	0.825	nd	nd	450	nd	nd	nd
	2663	128	1.16	0.070	2.260	nd	nd	330	nd	nd	nd
	2665	177	22.00	0.106	1.580	nd	nd	nd	nd	nd	nd
	2668	151	4.71	0.083	1.190	nd	nd	920	1400	1303	nd
	2670	169	1.54	0.026	1.460	nd	nd	nd	nd	nd	nd
	2680	138	1.34	0.069	8.820	nd	nd	nd	nd	nd	nd
	2685	122	0.23	0.087	8.030	nd	nd	270	nd	nd	nd
Upper Slope	2811	404	9.58	0.305	3.175	nd	nd	nd	460	nd	50.0
	2812	357	6.88	0.154	2.277	6700	1760	990	210	nd	nd
	2813	257	7.60	0.161	3.074	nd	nd	nd	nd	nd	nd
	2814	413	nd	0.165	2.907	3400	1330	720	nd	nd	nd
	2815	349	10.80	0.180	2.661	nd	nd	nd	nd	nd	63.6
	2816	335	10.30	0.247	3.110	nd	nd	nd	nd	880	45.9
		ERL:	na	na	na	na	na	1580	na	na	4022
		ERM:	na	na	na	na	na	46100	na	na	44792

Appendix G.4 *continued*

	Station	Depth (m)	Metals (ppm)								
			Al	Sb	As	Ba	Be	Cd	Cr	Cu	Fe
Inner Shelf	2655	26	2310	0.50	**8.64**	20.5	0.02	0.09	9.7	1.5	7670
	2657	21	4210	nd	1.05	25.1	0.06	nd	7.0	1.3	4810
	2660	13	4520	nd	0.74	30.5	0.06	nd	7.8	1.1	6130
	2669	11	2520	nd	1.55	11.1	0.03	nd	4.8	0.8	3910
	2671	13	3160	nd	1.36	15.4	0.04	nd	6.5	1.0	5110
	2672	15	2970	0.33	2.36	15.6	0.04	nd	6.3	1.0	4970
	2678	29	8980	0.47	2.16	50.1	0.18	0.09	16.5	8.6	14000
	2679	13	6630	nd	2.16	31.7	0.10	0.10	10.9	3.9	7630
	2683	24	5020	nd	1.14	21.4	0.06	nd	8.4	6.6	5010
	2688	26	6530	nd	1.44	37.7	0.09	0.06	10.7	5.3	7210
	2689	14	8040	0.38	2.94	46.4	0.11	nd	14.0	3.0	10600
Mid-shelf	2653	59	10800	0.56	4.12	49.3	0.31	0.19	23.3	6.5	20300
	2656	78	11700	0.57	3.68	53.3	0.27	0.15	21.0	8.3	15300
	2658	60	10800	0.52	3.89	57.5	0.25	0.23	20.7	9.3	14600
	2659	83	14300	0.61	4.71	54.0	0.31	0.14	23.3	9.7	17000
	2661	64	12100	0.42	2.09	50.5	0.25	0.20	19.7	7.8	13900
	2664	60	10900	0.46	3.65	49.4	0.24	0.24	18.5	8.1	12800
	2667	70	12100	0.56	3.78	63.0	0.26	0.24	21.1	10.3	15600
	2673	51	9810	0.56	3.12	47.8	0.20	0.19	16.2	8.8	12700
	2674	66	10400	0.51	4.38	64.0	0.20	0.19	19.1	10.4	15000
	2675	86	10400	0.52	4.31	53.5	0.20	0.11	18.7	8.2	14000
	2676	95	8110	0.55	3.79	55.2	0.17	0.09	15.7	10.4	13400
	2681	67	4570	0.63	2.37	26.2	0.28	0.26	24.5	3.5	19200
	2682	84	9690	0.64	3.48	49.1	0.17	0.10	18.1	25.8	12500
	2686	43	1450	nd	3.81	4.1	0.03	nd	8.0	nd	6050
	2687	43	1490	nd	7.34	3.3	0.04	nd	10.5	nd	7400
Outer Shelf	2651	163	11600	0.50	4.44	69.0	0.33	0.51	21.5	9.5	17400
	2662	147	9210	0.51	2.07	32.5	0.21	0.18	16.3	6.2	10800
	2663	128	7340	0.41	2.75	31.2	0.22	0.26	15.6	6.3	11500
	2665	177	9380	0.52	2.69	48.2	0.26	0.23	20.8	10.4	13800
	2668	151	11600	nd	2.44	40.2	0.26	0.14	20.1	9.7	14200
	2670	169	5660	0.51	**9.02**	115.0	0.49	0.20	35.0	1.9	15900
	2680	138	5140	nd	4.50	33.4	0.07	0.06	9.3	2.7	6280
	2685	122	8320	0.54	3.39	30.2	0.28	0.20	24.7	5.5	19600
Upper Slope	2811	404	17700	nd	3.19	105.0	0.45	0.49	36.8	21.3	19600
	2812	357	10400	nd	2.81	71.8	0.33	0.40	27.3	14.5	14900
	2813	257	10800	nd	2.74	60.7	0.34	0.30	27.0	14.3	14700
	2814	413	13400	nd	7.76	80.8	0.42	0.41	68.2	13.2	27400
	2815	349	13800	nd	3.12	80.9	0.40	0.43	32.0	17.3	17300
	2816	335	18900	nd	3.95	94.8	0.48	0.43	36.9	21.7	20300
		ERL:	na	na	8.2	na	na	1.2	81	34	na
		ERM:	na	na	70	na	na	9.6	370	270	na

Appendix G.4 *continued*

	Station	Depth (m)	Metals (ppm)								
			Pb	Mn	Hg	Ni	Se	Ag	Tl	Sn	Zn
Inner Shelf	2655	26	2.40	91.5	nd	2.0	nd	nd	nd	0.91	15.6
	2657	21	1.23	74.3	nd	1.8	nd	nd	nd	0.56	13.7
	2660	13	1.44	86.5	nd	2.0	nd	nd	nd	0.56	17.8
	2669	11	1.45	37.7	nd	1.2	nd	nd	nd	0.45	8.1
	2671	13	1.52	53.0	0.003	1.3	nd	nd	nd	0.53	9.4
	2672	15	2.14	51.2	0.008	1.3	nd	nd	nd	0.67	9.6
	2678	29	4.88	99.1	0.014	6.9	nd	nd	nd	1.26	33.1
	2679	13	2.68	72.9	0.004	4.0	nd	nd	nd	0.70	20.6
	2683	24	1.21	60.1	nd	2.2	nd	nd	nd	0.35	12.0
	2688	26	1.59	76.1	nd	3.5	nd	nd	nd	0.48	18.3
	2689	14	2.27	97.3	0.005	4.6	nd	nd	nd	0.52	23.2
Mid-shelf	2653	59	5.58	111.0	0.023	7.4	nd	nd	nd	1.47	46.1
	2656	78	5.79	121.0	0.033	8.7	nd	nd	nd	1.63	40.0
	2658	60	6.30	124.0	0.034	8.8	nd	nd	nd	1.35	43.0
	2659	83	6.03	132.0	0.028	10.3	nd	nd	nd	1.41	45.1
	2661	64	5.69	121.0	0.031	8.2	nd	nd	nd	1.36	38.9
	2664	60	5.31	116.0	0.043	7.7	0.27	nd	nd	1.38	37.1
	2667	70	6.20	129.0	0.043	9.5	nd	nd	nd	1.44	43.0
	2673	51	4.73	114.0	0.035	6.9	nd	nd	nd	1.18	35.2
	2674	66	6.75	124.0	0.080	9.0	nd	nd	nd	1.21	44.1
	2675	86	5.56	111.0	0.052	8.9	0.26	nd	nd	1.06	35.9
	2676	95	5.29	95.5	0.047	6.7	nd	nd	nd	0.90	38.2
	2681	67	4.08	29.8	0.032	6.1	nd	nd	nd	1.67	34.6
	2682	84	12.10	108.0	0.026	8.9	nd	nd	nd	1.67	81.8
	2686	43	1.85	19.8	nd	1.1	nd	nd	nd	nd	7.3
	2687	43	2.87	19.7	nd	1.0	nd	nd	nd	0.38	7.1
Outer Shelf	2651	163	5.94	139.0	0.038	9.3	nd	nd	nd	1.12	48.5
	2662	147	3.81	87.5	0.016	7.5	nd	nd	nd	0.90	29.8
	2663	128	3.79	72.8	0.015	6.6	0.24	nd	nd	0.86	29.9
	2665	177	4.87	103.0	0.040	11.2	0.37	nd	nd	1.07	38.6
	2668	151	4.29	101.0	0.045	9.5	0.25	nd	nd	1.06	37.2
	2670	169	2.21	26.2	0.014	4.2	0.36	nd	nd	0.59	23.2
	2680	138	1.79	59.2	0.014	3.0	0.41	nd	nd	0.42	16.8
	2685	122	4.63	55.3	0.029	8.6	0.32	nd	nd	0.75	38.1
Upper Slope	2811	404	8.03	168.0	0.062	**22.5**	1.37	nd	nd	1.36	66.0
	2812	357	6.27	123.0	0.041	14.9	0.81	nd	nd	1.05	48.6
	2813	257	6.17	111.0	0.037	15.1	1.05	nd	nd	1.13	45.9
	2814	413	5.12	77.6	0.024	15.5	1.24	nd	nd	0.91	52.2
	2815	349	6.98	143.0	0.049	18.2	0.55	nd	nd	1.14	55.6
	2816	335	8.23	171.0	0.064	**21.9**	1.25	nd	nd	1.49	65.5
		ERL:	46.7	na	0.15	20.9	na	1	na	na	150
		ERM:	218	na	0.71	51.6	na	3.7	na	na	410

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Appendix G.5

Concentrations of contaminants in sediments from the 1999 regional stations. TN = total nitrogen; TOC = total organic carbon; HCH = hexachlorocyclohexane; HCB = hexachlorobenzene; nd = not detected; na = not analyzed; DR (%) = detection rate; Min = minimum value; Max = maximum value; MDL = method detection limit; see Appendix C.1 for periodic table symbols.

	Station	Depth (m)	Sulfides (ppm)	TN (%)	TOC (%)	HCH (ppt)	Chlordane (ppt)	tDDT (ppt)	HCB (ppt)	tPCB (ppt)	tPAH (ppb)
Inner Shelf	2655	27	0.59	0.022	0.111	nd	nd	nd	na	nd	nd
	2657	19	14.30	0.021	0.125	nd	nd	nd	na	nd	nd
	2660	12	2.68	0.016	0.079	nd	nd	nd	na	nd	nd
	2669	11	0.98	0.014	0.067	nd	nd	nd	na	nd	nd
	2671	12	1.13	0.012	0.048	nd	nd	nd	na	nd	nd
	2672	15	1.24	0.017	0.057	nd	nd	nd	na	nd	78.6
	2678	30	4.17	0.031	0.219	nd	nd	nd	na	nd	nd
	2679	12	23.70	0.020	0.122	nd	nd	nd	na	nd	nd
	2683	23	9.24	0.016	0.114	nd	nd	nd	na	nd	nd
	2688	25	6.88	0.022	0.143	nd	nd	nd	na	nd	nd
	2689	13	21.60	0.016	0.108	nd	nd	nd	na	nd	nd
Mid-shelf	2653	58	3.08	0.066	0.584	nd	nd	nd	na	nd	nd
	2656	77	2.46	0.080	0.757	nd	nd	nd	na	nd	nd
	2658	59	1.78	0.076	0.700	nd	nd	nd	na	nd	nd
	2659	83	2.46	0.085	0.773	nd	nd	nd	na	nd	nd
	2661	63	4.24	0.062	0.549	nd	nd	nd	na	nd	nd
	2664	60	1.62	0.062	0.576	nd	nd	nd	na	nd	nd
	2667	68	3.57	0.069	0.667	nd	nd	nd	na	nd	nd
	2673	49	7.77	0.062	0.498	nd	nd	nd	na	nd	nd
	2674	65	6.21	0.076	0.676	nd	nd	nd	na	nd	nd
	2675	85	3.35	0.072	0.680	nd	nd	nd	na	nd	nd
	2676	94	4.29	0.051	0.496	nd	nd	nd	na	nd	163.7
	2681	66	6.57	0.043	0.405	nd	nd	1000	na	nd	nd
	2682	83	14.20	0.058	0.554	nd	nd	2300	na	nd	183.8
	2686	43	0.25	0.011	0.026	nd	nd	nd	na	nd	nd
	2687	42	0.13	0.010	0.015	nd	nd	nd	na	nd	nd
Outer Shelf	2651	152	97.70	0.125	1.190	nd	nd	nd	na	nd	nd
	2662	146	3.64	0.070	0.635	nd	nd	nd	na	nd	nd
	2663	130	2.48	0.073	0.670	nd	nd	nd	na	nd	nd
	2665	180	81.90	0.117	1.130	nd	nd	nd	na	nd	nd
	2668	149	18.90	0.088	0.866	nd	nd	nd	na	nd	nd
	2670	168	2.51	0.037	0.325	nd	nd	nd	na	nd	nd
	2680	138	0.80	0.046	0.395	nd	nd	nd	na	nd	nd
	2685	121	5.63	0.083	0.660	nd	nd	nd	na	nd	nd
		DR (%)	100	100	100	0	0	6	na	0	9
		Min	0.13	0.010	0.015	nd	nd	nd	na	nd	nd
		Max	97.70	0.125	1.190	nd	nd	2300	na	nd	183.8
		MDL	0.05	0.005	0.01	1300	3800	940	na	9600	46

Appendix G.5 *continued*

	Station	Depth (m)	Metals (ppm)								
			Al	Sb	As	Ba	Be	Cd	Cr	Cu	Fe
Inner Shelf	2655	27	1750	nd	4.02	na	nd	nd	7.1	nd	5130
	2657	19	4120	nd	0.76	na	nd	nd	6.3	10.4	4900
	2660	12	4160	nd	1.27	na	nd	nd	6.6	nd	6020
	2669	11	2430	nd	1.58	na	nd	nd	4.5	nd	3680
	2671	12	3620	nd	1.89	na	nd	nd	6.4	nd	5330
	2672	15	2740	nd	1.65	na	nd	nd	6.3	nd	4820
	2678	30	8380	nd	2.06	na	nd	0.96	10.6	3.6	7940
	2679	12	9120	nd	2.77	na	nd	nd	11.1	4.1	8970
	2683	23	5750	nd	1.61	na	nd	0.71	7.8	nd	5120
	2688	25	8010	nd	1.79	na	nd	0.99	9.9	2.5	6760
	2689	13	9870	nd	2.91	na	nd	nd	13.0	4.1	10500
Mid-shelf	2653	58	11400	nd	2.76	na	nd	nd	17.5	7.0	15200
	2656	77	15400	nd	5.05	na	nd	nd	21.7	9.3	17500
	2658	59	13900	nd	3.98	na	nd	nd	20.1	9.5	16200
	2659	83	14500	nd	4.17	na	nd	nd	20.0	13.2	16200
	2661	63	12000	nd	3.61	na	nd	nd	17.2	7.3	13300
	2664	60	13400	nd	4.08	na	nd	nd	18.6	8.9	14300
	2667	68	15300	nd	5.33	na	nd	nd	21.0	11.0	17100
	2673	49	12400	nd	3.91	na	nd	nd	16.4	9.5	14100
	2674	65	14300	2.85	4.06	na	nd	nd	21.1	15.1	17200
	2675	85	15900	nd	3.74	na	nd	nd	20.6	10.5	16600
	2676	94	12300	nd	3.16	na	nd	nd	16.9	16.6	15100
	2681	66	8710	nd	2.91	na	nd	nd	11.3	6.1	9520
	2682	83	10400	nd	3.13	na	nd	nd	15.4	30.6	12000
	2686	43	1350	nd	5.69	na	nd	0.97	6.8	nd	6250
	2687	42	1300	nd	6.40	na	nd	0.67	7.9	nd	6750
Outer Shelf	2651	152	21800	8.50	4.77	na	nd	nd	27.4	14.6	22300
	2662	146	10300	nd	3.00	na	nd	nd	15.6	11.4	12100
	2663	130	11500	nd	3.13	na	nd	nd	17.4	8.4	13800
	2665	180	19000	nd	3.13	na	nd	nd	26.7	14.1	18900
	2668	149	15900	5.80	3.56	na	nd	nd	21.8	18.1	16700
	2670	168	6500	nd	7.46	na	nd	nd	34.7	2.3	16000
	2680	138	6080	nd	5.83	na	nd	nd	24.9	4.0	20600
	2685	121	11200	6.10	4.32	na	nd	nd	25.7	9.0	21800
		DR (%)	100	12	100	na	0	15	100	76	100
		Min	1300	nd	0.76	na	nd	nd	4.5	nd	3680
		Max	21800	8.50	7.46	na	nd	0.99	34.7	30.6	22300
		MDL	5	5	0.32	na	0.2	0.5	3	2	3

Appendix G.5 *continued*

	Station	Depth (m)	Metals (ppm) Pb	Mn	Hg	Ni	Se	Ag	Tl	Sn	Zn
Inner Shelf	2655	27	nd	68.1	nd	nd	nd	nd	nd	nd	10.3
	2657	19	nd	74.2	nd	nd	nd	nd	nd	nd	12.5
	2660	12	nd	85.5	nd	nd	nd	nd	nd	nd	13.2
	2669	11	nd	nd	nd	nd	nd	nd	nd	nd	7.0
	2671	12	nd	60.2	nd	nd	nd	nd	nd	nd	9.0
	2672	15	nd	50.7	nd	nd	nd	nd	nd	nd	7.8
	2678	30	nd	86.9	nd	nd	nd	nd	nd	nd	23.3
	2679	12	nd	87.7	nd	11.2	nd	nd	nd	nd	19.7
	2683	23	nd	52.1	nd	18.8	nd	nd	nd	nd	10.5
	2688	25	nd	77.4	nd	nd	nd	nd	nd	nd	15.1
	2689	13	nd	99.6	nd	nd	nd	nd	nd	nd	23.7
Mid-shelf	2653	58	nd	107.0	nd	6.8	0.18	nd	nd	nd	30.4
	2656	77	6.10	140.0	nd	9.4	0.22	nd	nd	nd	37.4
	2658	59	nd	126.0	0.043	8.7	0.19	nd	nd	nd	41.8
	2659	83	8.90	126.0	0.048	8.9	0.23	nd	nd	nd	35.0
	2661	63	nd	118.0	0.041	7.6	0.18	nd	nd	nd	30.7
	2664	60	5.20	125.0	0.054	8.2	0.25	nd	nd	nd	34.3
	2667	68	6.40	140.0	0.052	10.4	0.27	nd	nd	nd	41.6
	2673	49	7.80	122.0	0.033	7.8	0.19	nd	nd	nd	33.3
	2674	65	5.50	136.0	0.019	10.0	0.22	nd	nd	nd	50.3
	2675	85	nd	131.0	0.057	10.1	0.25	nd	nd	nd	37.1
	2676	94	6.60	108.0	0.067	7.8	0.22	nd	nd	nd	34.1
	2681	66	nd	nd	nd	5.6	0.15	nd	nd	nd	20.5
	2682	83	9.20	90.3	0.024	7.5	0.18	nd	nd	nd	51.7
	2686	43	nd	17.8	nd	17.2	nd	nd	nd	nd	5.9
	2687	42	nd	20.3	nd	nd	nd	nd	nd	nd	5.0
Outer Shelf	2651	152	9.38	184.0	nd	12.3	0.37	nd	nd	nd	53.4
	2662	146	nd	87.0	0.020	7.6	0.29	nd	nd	nd	26.0
	2663	130	nd	91.8	0.020	7.9	0.30	nd	nd	nd	28.3
	2665	180	7.20	137.0	0.037	14.5	0.49	nd	nd	nd	44.1
	2668	149	nd	116.0	0.036	11.1	0.40	nd	nd	nd	37.6
	2670	168	nd	30.1	nd	5.3	0.33	nd	nd	nd	20.6
	2680	138	nd	28.4	nd	5.9	0.48	nd	nd	nd	26.6
	2685	121	nd	54.9	nd	9.1	0.43	nd	nd	nd	33.5
		DR (%)	29	94	41	71	62	0	0	0	100
		Min	nd	nd	nd	nd	nd	nd	nd	nd	5.0
		Max	9.38	184.0	0.067	18.8	0.49	nd	nd	nd	53.4
		MDL	5	0.48	0.03	3	0.11	3	10	12	4

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