

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

Concentrations of trace elements and organic compounds in stream-bed sediments from selected sites in the Lake Erie - Lake St. Clair Basin (National Water-Quality Assessment Program)

Stream-bed sediment samples were collected during low-flow conditions in the Lake Erie - Lake St. Clair Basin at 5 sites in 1997 to determine concentrations of trace elements and hydrophobic organic compounds. Where more than one sample was collected on the same day, the letter after the date denotes multiple samples in the reach.

Bed sediments samples were collected from the top 1 to 2 centimeters of material taken from at least 5 different depositional areas within the stream reach. A subsample from the composite sample collected at each site was shipped to the USGS Iowa City, Iowa sediment laboratory for particle-size analysis, and the results are reported at the end of this table. In addition, subsamples from the composite were: (1) processed using a 2.0-millimeter stainless-steel mesh wet sieve for preparation of material for organic contaminant analysis, and (2) processed using a 63-micrometer nylon-cloth wet sieve for preparation of material for trace element analysis. More specific details describing the guidelines used in collection and in processing the stream-bed sediment samples can be found in Shelton and Capel (1994).

Bed sediment constituent concentrations are provided on a percent (percent of dry weight) or a dry-weight (DW) basis, based on a 25 gram sample. Constituent names are abbreviated as follows: DDD, dichlorodiphenylchloroethane; DDE, dichlorodiphenylchloroethene; DCPA, dimethyl tetrachloroterephthalate; DDT, dichlorodiphenyltrichloroethane; BHC, hexachlorocyclohexane (benzene hexachloride); PCB, polychlorinated biphenyls (BED SED = bottom sediment, <63U WS = less than 63-micrometer wet sieve, WS <2MM = wet seive, less than 2.0-micrometer, REC = recoverable, UG/G = micrograms per gram, UG/KG = microgram per kilogram, G/KG = gram per kilogram, MM = millimeter, (34790) = the USGS National Water-Quality Laboratory parameter code, e = Estimated). Additional surface-water and water-quality data for these sampling sites can be found in the continuous-record station sections of the Indiana and Michigan Water Resources Data Reports.

CALENDAR YEAR 1997

STATION NUMBER	STATION NAME	LATITUDE	LONGITUDE	DRAINAGE AREA (mi ²)	DATE	TIME
04160900	CLINTON RIVER NEAR DRAYTON PLAINS, MI	42°39'37"N	83°23'25"W	79.2	11/03/97	1330
04161540	PAINT CREEK AT ROCHESTER, MI	42°41'18"N	83°08'35"W	70.9	11/04/97	1300
04172000	HURON RIVER NEAR HAMBURG, MI	42°27'55"N	83°48'00"W	308	10/30/97	1530
04180000	CEDAR CREEK NEAR CEDARVILLE, IN	41°13'08"N	85°04'35"W	270	10/29/97 ^A	1200
04180000	CEDAR CREEK NEAR CEDARVILLE, IN	41°13'08"N	85°04'35"W	270	10/29/97 ^B	1215
04180000	CEDAR CREEK NEAR CEDARVILLE, IN	41°13'08"N	85°04'35"W	270	10/29/97 ^C	1230
413101084521301	FISH CREEK NEAR HAMILTON, IN	41°31'01"N	84°52'13"W	84.6	10/30/97	0930

STATION NUMBER	DATE	SPECIFIC CONDUCTANCE (US/CM)	PH, WATER WHOLE (STANDARD UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	BAROMETRIC PRESSURE, (MM OF HG)	OXYGEN SOLVED (MG/L)	ALUMINUM, BED SED <63U WS PERCENT (34790)	CALCIUM, BED SED <63U WS PERCENT (34830)	IRON, BED SED <63U WS PERCENT (34880)
04160900	11/03/97	589	8.20	9.5	8.0	729	--	2.9	14.0	2.4
04161540	11/04/97	631	8.42	9.5	5.7	744	--	4.3	6.3	3.0
04172000	10/30/97	631	8.28	11.0	8.3	743	13.2	2.8	13.0	3.2
04180000	10/29/97 ^A	688	7.98	11.5	6.6	744	10.5	5.6	5.7	3.6
04180000	10/29/97 ^B	688	7.98	11.5	6.6	744	10.5	5.4	5.5	3.5
04180000	10/29/97 ^C	688	7.98	11.5	6.6	744	10.5	5.8	5.7	3.8
4131010-84521301	10/30/97	519	8.17	8.0	6.0	743	11.2	5.7	6.9	3.5

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

Concentrations of trace elements and organic compounds in stream-bed sediments from selected sites in the Lake Erie - Lake St. Clair Basin -- Continued

STATION NUMBER	DATE	MAGNESIUM, BED SED <63U WS PERCENT (34900)	SODIUM, BED SED <63U WS PERCENT (34960)	POTASSIUM, BED SED <63U WS PERCENT (34940)	PHOSPHORUS, BED SED <63U WS PERCENT (34935)	TITANIUM, BED SED <63U WS PERCENT (49274)	ANTI-MONY, BED SED <63U WS (UG/G) (34795)	ARSENIC, BED SED <63U WS (UG/G) (34800)	BARIUM, BED SED <63U WS (UG/G) (34805)	BERYLLIUM, BED SED <63U WS (UG/G) (34810)	BISMUTH, BED SED <63U WS (UG/G) (34816)
04160900	11/03/97	1.5	0.51	0.92	0.09	0.15	0.85	25	270	<1	<10
04161540	11/04/97	2.4	0.79	1.6	0.09	0.25	0.67	24	390	1	<10
04172000	10/30/97	1.1	0.39	0.8	0.11	0.14	0.52	21	330	<1	<10
04180000	10/29/97 ^A	2.4	0.68	1.9	0.16	0.30	0.71	12	440	1	<10
04180000	10/29/97 ^B	2.3	0.63	1.8	0.15	0.30	0.71	12	410	1	<10
04180000	10/29/97 ^C	2.4	0.66	2.0	0.16	0.31	0.75	12	460	1	<10
4131010-84521301	10/30/97	2.1	0.69	1.9	0.11	0.29	0.60	14	470	1	<10

STATION NUMBER	DATE	CADMIUM, BED SED <63U WS (UG/G) (34825)	CERIUM, BED SED <63U WS (UG/G) (34835)	CHROMIUM, BED SED <63U WS (UG/G) (34840)	COBALT, BED SED <63U WS (UG/G) (34845)	COPPER, BED SED <63U WS (UG/G) (34850)	EUROPIUM, BED SED <63U WS (UG/G) (34855)	GALLIUM, BED SED <63U WS (UG/G) (34860)	GOLD, BED SED <63U WS (UG/G) (34870)	HOLMIUM, BED SED <63U WS (UG/G) (34875)	LANTHANUM, BED SED <63U WS (UG/G) (34885)
04160900	11/03/97	1.1	32	45	6	43	<2	17	<8	<4	17
04161540	11/04/97	0.6	52	54	8	25	<2	23	<8	<4	28
04172000	10/30/97	0.6	31	35	5	26	<2	15	<8	<4	18
04180000	10/29/97 ^A	0.6	63	63	11	29	<2	22	<8	<4	36
04180000	10/29/97 ^B	0.6	64	65	12	30	<2	21	<8	<4	36
04180000	10/29/97 ^C	0.6	61	72	12	29	<2	18	<8	<4	35
4131010-84521301	10/30/97	0.4	58	60	11	23	<2	21	<8	<4	33

STATION NUMBER	DATE	LEAD, BED SED <63U WS (UG/G) (34890)	LITHIUM, BED SED <63U WS (UG/G) (34895)	MANGANESE, BED SED <63U WS (UG/G) (34905)	MERCURY, BED SED <63U WS (UG/G) (34910)	MOLYBDENUM, BED SED <63U WS (UG/G) (34915)	NEODYMIUM, BED SED <63U WS (UG/G) (34920)	NICKEL, BED SED <63U WS (UG/G) (34925)	NIOBIUM, BED SED <63U WS (UG/G) (34930)	SCANDIUM, BED SED <63U WS (UG/G) (34945)	SELENIUM, BED SED <63U WS (UG/G) (34950)
04160900	11/03/97	120	18	790	0.09	3	18	17	<4	5	1.30
04161540	11/04/97	33	26	1600	0.05	<2	24	21	<4	8	0.52
04172000	10/30/97	30	17	1700	0.07	2	16	19	<4	5	1.20
04180000	10/29/97 ^A	27	34	1100	0.09	3	33	31	4	11	0.71
04180000	10/29/97 ^B	29	35	1000	0.08	4	32	32	4	11	0.69
04180000	10/29/97 ^C	25	36	1100	0.09	4	31	34	4	11	0.71
4131010-84521301	10/30/97	22	34	910	0.05	3	28	28	4	10	0.74

STATION NUMBER	DATE	SILVER, BED SED <63U WS (UG/G) (34955)	STRONTIUM, BED SED <63U WS (UG/G) (34965)	SULFUR, BED SED <63U WS (UG/G) (34970)	TANTALUM, BED SED <63U WS (UG/G) (34975)	THORIUM, BED SED <63U WS (UG/G) (34980)	TIN, BED SED <63U WS (UG/G) (34985)	URANIUM, BED SED <63U WS (UG/G) (35000)	VANADIUM, BED SED <63U WS (UG/G) (35005)	YTTORIUM, BED SED <63U WS (UG/G) (35010)	YTTERIUM, BED SED <63U WS (UG/G) (35015)
04160900	11/03/97	0.2	180	0.94	<40	<3.8	<5	2.00	42	12	1
04161540	11/04/97	0.1	160	0.20	<40	<3.4	<5	2.67	66	18	2
04172000	10/30/97	0.2	170	0.60	<40	6.6	<5	2.02	41	12	1
04180000	10/29/97 ^A	0.3	240	0.20	<40	9.28	<5	3.96	95	24	2
04180000	10/29/97 ^B	0.3	240	0.19	<40	8.9	<5	4.03	97	25	2
04180000	10/29/97 ^C	0.4	240	0.20	<40	8.7	<5	4.13	100	25	2
4131010-84521301	10/30/97	0.1	310	0.15	<40	7.8	<5	3.70	92	23	2

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Concentrations of trace elements and organic compounds in stream-bed sediments from selected sites in the Lake Erie - Lake St. Clair Basin -- Continued

STATION NUMBER	DATE	ZINC, BED SED <63U WS (UG/G) (35020)	CARBON ORG + INORG, BED SED WS, <63U DW, REC PERCENT (49267)	CARBON ORGANIC, BED SED WS, <63U DW, REC PERCENT (49266)	CARBON INORG, BED SED WS, <63U DW, REC PERCENT (49269)	CARBON ORG + INORG, BED SED WS, <2MM DW, REC (G/KG) (49272)	CARBON ORGANIC, BED SED WS, <2MM DW, REC (G/KG) (49271)	CARBON INORG, BED SED WS, <2MM DW, REC (G/KG) (49270)	PCB, BED SED WS, <2MM DW, REC (UG/KG) (49459)	ACENAPH THYLENE, BED SED WS, <2MM DW, REC (UG/KG) (49428)	ACENAPH THENE, BED SED WS, <2MM DW, REC (UG/KG) (49429)
		04160900	11/03/97	180	13.5	9.27	4.23	81	60	21	99
04161540	11/04/97	120	5.98	3.48	2.50	12	6.5	5.5	<50	e14.8	e23.2
04172000	10/30/97	84	14.4	10.6	3.83	170	140	32	64	61.1	<100
04180000	10/29/97 ^A	140	5.02	2.80	2.22	20	10	10	e46	e4.7	<50
04180000	10/29/97 ^B	150	4.95	2.72	2.23	19	9.4	9.6	e35	<50	<50
04180000	10/29/97 ^C	160	4.92	2.74	2.18	17	7.5	9.5	e37	<50	<50
4131010-84521301	10/30/97	120	5.31	2.93	2.38	33	23	9.6	<50	e7.4	e1.9

STATION NUMBER	DATE	ACRIDINE, BED SED, WS <2MM DW, REC (UG/KG) (49430)	ALDRIN, BED SED, WS <2MM DW, REC (UG/KG) (49319)	C8- ALKYLPHENOL, BED SED, WS <2MM DW, REC (UG/KG) (49424)	ANTHRACENE, BED SED, WS <2MM DW, REC (UG/KG) (49434)	9,10 ANTHRA- QUINONE, BED SED, WS <2MM DW, REC (UG/KG) (49437)	AZO- BENZENE, BED SED, WS <2MM DW, REC (UG/KG) (49443)	BENZO (A) ANTHRACENE, BED SED, WS <2MM DW, REC (UG/KG) (49436)
		04160900	11/03/97	60.7	<1.0	<100	255	396
04161540	11/04/97	e37.2	<1.0	<50	87.3	170	<50	354
04172000	10/30/97	<100	<2.0	<100	78.8	e42.7	<100	182
04180000	10/29/97 ^A	<50	<1.0	<50	e7.9	<50	<50	e12.6
04180000	10/29/97 ^B	<50	<1.0	<50	e4.0	<50	<50	<50
04180000	10/29/97 ^C	<50	<1.0	<50	e4.4	<50	<50	<50
4131010-84521301	10/30/97	e8.2	<1.0	<50	e10.8	e18.7	<50	e17.1

STATION NUMBER	DATE	BENZO- CINNOLINE, BED MAT, WS <2MM DW, REC (UG/KG) (49468)	BENZO (B) FLUOR- ANTHENE, BED SED, WS <2MM DW, REC (UG/KG) (49458)	BENZO (K) FLUOR- ANTHENE, BED SED, WS <2MM DW, REC (UG/KG) (49397)	BENZO (G,H,I) PERYLENE, BED SED, WS <2MM DW, REC (UG/KG) (49408)	BENZO (A) PYRENE, BED SED, WS <2MM DW, REC (UG/KG) (49389)	2, 2'- BIQUINOLINE, BED SED, WS <2MM DW, REC (UG/KG) (49391)	4- BROMOPHENYL PHENYLETHER, BED SED, WS <2MM DW, REC (UG/KG) (49454)
		04160900	11/03/97	<100	2220	668	428	1270
04161540	11/04/97	<50	663	244	176	405	<50	<50
04172000	10/30/97	<100	306	108	85.2	190	e19.2	<100
04180000	10/29/97 ^A	<50	e20.2	e10.7	e9.9	e17.4	<50	<50
04180000	10/29/97 ^B	<50	e17.0	e4.8	e8.2	e12.3	<50	<50
04180000	10/29/97 ^C	<50	e15.1	e5.4	e7.3	e9.3	<50	<50
4131010-84521301	10/30/97	<50	e37.9	13.4	e24.7	e22.7	<50	<50

STATION NUMBER	DATE	BUTYL BENZYL- PHTHALATE, BED SED, WS <2MM DW, REC (UG/KG) (49427)	CARBAZOLE, BED SED, WS <2MM DW, REC (UG/KG) (49449)	CIS- CHLORDANE, BED SED, WS <2MM DW, REC (UG/KG) (49320)	TRANS- CHLORDANE, BED SED, WS <2MM DW, REC (UG/KG) (49321)	BIS 2-CHLORO- ETHOXY METHANE, BED SED, WS <2MM DW, REC (UG/KG) (49401)	4-CHLORO 3-METHYL- PHENOL, BED SED, WS <2MM DW, REC (UG/KG) (49422)	2-CHLORO- NAPH- THALENE, BED SED, WS <2MM DW, REC (UG/KG) (49407)
		04160900	11/03/97	90.1	201	e0.8	<1.0	<100
04161540	11/04/97	e22.5	96.4	1.4	1.2	<50	<50	<50
04172000	10/30/97	e40.7	e32.0	<2.0	<2.0	<100	<100	<100
04180000	10/29/97 ^A	<50	e3.5	<1.0	<1.0	<50	<50	<50
04180000	10/29/97 ^B	e11.3	<50	<1.0	<1.0	<50	<50	<50
04180000	10/29/97 ^C	e10.2	<50	<1.0	<1.0	<50	<50	<50
4131010-84521301	10/30/97	e10.7	e7.0	<1.0	<1.0	<50	<50	<50

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STATION NUMBER	DATE	CHLORONEB, BED SED, WS	2-CHLORO-PHENOL, BED SED, WS	4-CHLORO-PHENYL ETHER, BED SED, WS	CHRYSENE, BED SED, WS	P-CRESOL, BED SED, WS	DCPA, BED SED, WS	O, P'- DDD, BED SED, WS
		<2MM DW, REC (UG/KG) (49322)	<2MM DW REC (UG/KG) (49467)	<2MM DW, REC (UG/KG) (49455)	<2MM DW, REC (UG/KG) (49450)	<2MM DW, REC (UG/KG) (49324)	<2MM DW, REC (UG/KG) (49324)	<2MM DW, REC (UG/KG) (49325)
04160900	11/03/97	<5.0	<100	<100	1360	e36.4	<5.0	<1.0
04161540	11/04/97	<5.0	<50	<50	420	e8.4	<5.0	<1.0
04172000	10/30/97	<10.0	<100	<100	202	e44.3	<10.0	<2.0
04180000	10/29/97 ^A	<5.0	<50	<50	e17.9	340	<5.0	<1.0
04180000	10/29/97 ^B	<5.0	<50	<50	e8.9	e7.4	<5.0	<1.0
04180000	10/29/97 ^C	<5.0	<50	<50	e7.4	e9.3	<5.0	<1.0
4131010-84521301	10/30/97	<5.0	<50	<50	e24.9	e11.9	<5.0	<1.0
STATION NUMBER	DATE	P, P'- DDD, BED SED, WS	O, P'- DDE, BED SED, WS	P, P'- DDE, BED SED, WS	O, P'- DDT, BED SED, WS	P, P'- DDT, BED SED, WS	DIBENZ (A,H) ANTHRACENE, BED SED, WS	DIBENZO-THIOPHENE, BED SED, WS
		<2MM DW, REC (UG/KG) (49326)	<2MM DW, REC (UG/KG) (49327)	<2MM DW, REC (UG/KG) (49328)	<2MM DW, REC (UG/KG) (49329)	<2MM DW, REC (UG/KG) (49330)	<2MM DW, REC (UG/KG) (49461)	<2MM DW, REC (UG/KG) (49452)
04160900	11/03/97	e6.0	<1.0	6.7	<2.0	<2.0	163	59.1
04161540	11/04/97	e1.4	<1.0	4.4	<2.0	e1.4	57.2	e27.1
04172000	10/30/97	e11.0	<2.0	17	<4.0	<4.0	<100	<100
04180000	10/29/97 ^A	<1.0	<1.0	<1.0	<2.0	<2.0	<50	<50
04180000	10/29/97 ^B	<1.0	<1.0	<1.0	<2.0	<2.0	<50	<50
04180000	10/29/97 ^C	<1.0	<1.0	<1.0	<2.0	<2.0	<50	<50
4131010-84521301	10/30/97	e0.6	<1.0	e0.5	<2.0	<2.0	<50	<50
STATION NUMBER	DATE	DI-N BUTYL PHTHALATE, BED SED, WS	1,2-DICHLORO-BENZENE, BED SED, WS	1,3-DICHLORO-BENZENE, BED SED, WS	1,4-DICHLORO-BENZENE, BED SED, WS	DIELDRIN, BED SED, WS	DIETHYL PHTHALATE, BED SED, WS	1,2-DIMETHYL-NAPH-THALENE, BED SED, WS
		<2MM DW, REC (UG/KG) (49381)	<2MM DW, REC (UG/KG) (49439)	<2MM DW, REC (UG/KG) (49441)	<2MM DW, REC (UG/KG) (49442)	<2MM DW, REC (UG/KG) (49331)	<2MM DW, REC (UG/KG) (49383)	<2MM DW, REC (UG/KG) (49403)
04160900	11/03/97	68.6	<100	<100	<100	<1.0	<100	<100
04161540	11/04/97	91.5	<50	<50	<50	<1.0	<50	<50
04172000	10/30/97	70.8	<100	<100	<100	<2.0	<100	<100
04180000	10/29/97 ^A	e29.2	<50	<50	<50	<1.0	e8.9	<50
04180000	10/29/97 ^B	e26.5	<50	<50	<50	<1.0	e1.1	<50
04180000	10/29/97 ^C	e23.9	<50	<50	<50	<1.0	<50	<50
4131010-84521301	10/30/97	e37.0	<50	<50	<50	<1.0	e11.4	<50
STATION NUMBER	DATE	1,6-DIMETHYL-NAPH-THALENE, BED SED, WS	2,6-DIMETHYL-NAPH-THALENE, BED SED, WS	3,5-DIMETHYL-PHENOL, BED SED, WS	DIMETHYL PHTHALATE, BED SED, WS	2,4-DINITRO-TOLUENE, BED SED, WS	2,6-DINITRO-TOLUENE, BED SED, WS	DI-N-OCTYL PHTHALATE, BED SED, WS
		<2MM DW, REC (UG/KG) (49404)	<2MM DW, REC (UG/KG) (49406)	<2MM DW, REC (UG/KG) (49421)	<2MM DW, REC (UG/KG) (49384)	<2MM DW, REC (UG/KG) (49395)	<2MM DW, REC (UG/KG) (49396)	<2MM DW, REC (UG/KG) (49382)
04160900	11/03/97	<100	90.8	<100	150	<100	<100	130
04161540	11/04/97	<50	e17.0	<50	e5.6	<50	<50	e31.2
04172000	10/30/97	<100	134	<100	<100	<100	<100	<100
04180000	10/29/97 ^A	e2.0	e13.4	<50	<50	<50	<50	<50
04180000	10/29/97 ^B	<50	e10.9	<50	<50	<50	<50	<50
04180000	10/29/97 ^C	<50	e16.0	<50	<50	<50	<50	<50
4131010-84521301	10/30/97	e3.9	e14.8	<50	<50	<50	<50	<50

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STATION NUMBER	DATE	ALPHA-ENDOSULFAN, BED SED, WS <2MM DW, REC (UG/KG) (49332)	ENDRIN, BED SED, WS <2MM DW, REC (UG/KG) (49335)	BIS (2-ETHYLHEXYL) PHTHALATE, BED SED, WS <2MM DW, REC (UG/KG) (49426)	2-ETHYL NAPH-THALENE, BED SED, WS <2MM DW, REC (UG/KG) (49948)	FLUOR-ANTHENE, BED SED, WS <2MM DW, REC (UG/KG) (49466)	FLUORENE, BED SED, WS <2MM DW, REC (UG/KG) (49399)	ALPHA-BHC, BED SED, WS <2MM DW, REC (UG/KG) (49338)
04160900	11/03/97	<1.0	<2.0	526	e10.7	3290	95	<1.0
04161540	11/04/97	<1.0	<2.0	122	<50	1120	e38.8	<1.0
04172000	10/30/97	<2.0	<4.0	103	<100	436	e7.2	<2.0
04180000	10/29/97 ^A	<1.0	<2.0	e31.2	<50	e37.5	e1.5	<1.0
04180000	10/29/97 ^B	<1.0	<2.0	e30.1	<50	e19.4	<50	<1.0
04180000	10/29/97 ^C	<1.0	<2.0	e26.2	<50	e21.8	<50	<1.0
4131010-84521301	10/30/97	<1.0	<2.0	e22.4	<50	73.6	e7.0	<1.0
STATION NUMBER	DATA	BETA-BHC, BED SED, WS <2MM DW, REC (UG/KG) (49339)	LINDANE, BED SED, WS <2MM DW, REC (UG/KG) (49345)	HEPTACHLOR, BED SED, WS <2MM DW, REC (UG/KG) (49341)	HEPTACHLOR EPOXIDE, BED SED, WS <2MM DW, REC (UG/KG) (49342)	HEXACHLORO-BENZENE, BED SED, WS <2MM DW, REC (UG/KG) (49343)	INDENO (1,2,3- C,D) PYRENE, BED SED, WS <2MM DW, REC (UG/KG) (49390)	ISODRIN, BED SED, WS <2MM DW, REC (UG/KG) (49344)
04160900	11/03/97	<1.0	<1.0	<1.0	<1.0	<1.0	596	<1.0
04161540	11/04/97	<1.0	<1.0	<1.0	<1.0	<1.0	224	<1.0
04172000	10/30/97	<2.0	<2.0	<2.0	<2.0	<2.0	95.9	<2.0
04180000	10/29/97 ^A	<1.0	<1.0	<1.0	<1.0	<1.0	e10.5	<1.0
04180000	10/29/97 ^B	<1.8	<1.0	<1.0	<1.0	<1.0	e6.3	<1.0
04180000	10/29/97 ^C	<1.0	<1.0	<1.0	<1.0	<1.0	e5.3	<1.0
4131010-84521301	10/30/97	<1.0	<1.0	<1.0	<1.0	<1.0	e15.2	<1.0
STATION NUMBER	DATE	ISOPHORONE, BED SED, WS <2MM DW, REC (UG/KG) (49400)	ISOQUINO-LINE, BED SED, WS <2MM DW, REC (UG/KG) (49394)	O,P'-METHOXY-CHLOR, BED SED, WS <2MM DW, REC (UG/KG) (49347)	P,P'-METHOXY CHLOR, BED SED, WS <2MM DW, REC (UG/KG) (49346)	2-METHYL-ANTHRACENE, BED SED, WS <2MM DW, REC (UG/KG) (49435)	4,5-METHYLENE-PHENANTHRENE, BED SED, WS <2MM DW, REC (UG/KG) (49411)	1-METHYL-9H-FLUORENE, BED SED, WS <2MM DW, REC (UG/KG) (49398)
04160900	11/03/97	<100	<100	<5.0	<5.0	e29.8	199	<100
04161540	11/04/97	<50	<50	<5.0	<5.0	e6.7	70.1	<50
04172000	10/30/97	e25.7	53.9	<10.0	<10.0	<100	e31.6	<100
04180000	10/29/97 ^A	<50	<50	<5.0	<5.0	e3.3	e4.5	<50
04180000	10/29/97 ^B	<50	<50	<5.0	<5.0	<50	<50	<50
04180000	10/29/97 ^C	<50	<50	<5.0	<5.0	<50	<50	<50
4131010-84521301	10/30/97	<50	<50	<5.0	<5.0	e4.2	e11.2	<50
STATION NUMBER	DATE	1-METHYLENE-PHEN-ANTHRENE, BED SED, WS <2MM DW, REC (UG/KG) (49410)	1-METHYL-PYRENE, BED SED, WS <2MM DW, REC (UG/KG) (49388)	MIREX, BED SED, WS <2MM DW, REC (UG/KG) (49348)	NAPH-THALENE, BED SED, WS <2MM DW, REC (UG/KG) (49402)	NITRO-BENZENE, BED SED, WS <2MM DW, REC (UG/KG) (49444)	N-NITRO-SODIPHENYLAMINE, BED SED, WS <2MM DW, REC (UG/KG) (49433)	N-NITROSODI-N-PROPYLAMINE, BED SED, WS <2MM DW, REC (UG/KG) (49431)
04160900	11/03/97	67.9	63.4	<1.0	e33.8	<100	<100	<100
04161540	11/04/97	e20.4	e18.8	<1.0	e9.1	<50	<50	<50
04172000	10/30/97	e6.4	e21.2	<2.0	e13.1	<100	<100	<100
04180000	10/29/97 ^A	e1.7	e4.0	<1.0	e1.0	<50	<50	<50
04180000	10/29/97 ^B	<50	<50	<1.0	e2.6	<50	<50	<50
04180000	10/29/97 ^C	<50	<50	<1.0	e2.2	<50	<50	<50
4131010-84521301	10/30/97	e5.1	e5.2	<1.0	e1.4	<50	<50	<50

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

Concentrations of trace elements and organic compounds in stream-bed sediments from selected sites in the Lake Erie - Lake St. Clair Basin -- Continued

STATION NUMBER	DATE	CIS-NONACHLOR, BED SED, WS <2MM DW, REC	TRANS-NONACHLOR, BED SED, WS <2MM DW, REC	OXY-CHLORDANE, BED SED, WS <2MM DW, REC	PENTA-CHLORO ANISOLE, BED SED, WS <2MM DW, REC	PENTA-CHLORO-NITRO-BENZENE, BED SED, WS <2MM DW, REC	CIS-PERMETHRIN, BED SED, WS <2MM DW, REC	TRANS-PERMETHRIN, BED SED, WS <2MM DW, REC
		(UG/KG) (49316)	(UG/KG) (49317)	(UG/KG) (49318)	(UG/KG) (49460)	(UG/KG) (49446)	(UG/KG) (49349)	(UG/KG) (49350)
04160900	11/03/97	<1.0	<1.0	<1.0	<1.0	<100	<6.0	<30
04161540	11/04/97	<1.0	e0.4	<1.0	<1.0	<50	<5.0	<19
04172000	10/30/97	<2.0	<2.0	<2.0	<2.0	<100	<10.0	<10
04180000	10/29/97 ^A	<1.0	<1.0	<1.0	<0.10	<50	<5.0	<5.0
04180000	10/29/97 ^B	<1.0	<1.0	<1.0	<1.0	<50	<5.0	<5.0
04180000	10/29/97 ^C	<1.0	<1.0	<1.0	<1.0	<50	<5.0	<5.0
4131010-84521301	10/30/97	<1.0	<1.0	<1.0	<1.0	<50	<5.0	<7.0

STATION NUMBER	DATE	PHEN-ANTHRENE, BED SED, WS <2MM DW, REC	PHENANTH RIDINE, BED SED, WS <2MM DW, REC	PHENOL, BED SED, WS <2MM DW, REC	PYRENE, BED SED, WS <2MM DW, REC	QUINOLINE, BED SED, WS <2MM DW, REC	TOXAPHENE, BED SED, WS <2MM DW, REC	1,2,4-TRI-CHLORO BENZENE, BED SED, WS <2MM DW, REC
		(UG/KG) (49409)	(UG/KG) (49393)	(UG/KG) (49413)	(UG/KG) (49387)	(UG/KG) (49392)	(UG/KG) (49351)	(UG/KG) (49438)
04160900	11/03/97	1300	52.4	e38.3	2480	<100	<200	<100
04161540	11/04/97	584	e17.6	e8.3	830	<50	<200	<50
04172000	10/30/97	122	<100	52.3	364	<100	<400	<100
04180000	10/29/97 ^A	e16.6	<50	e22.3	e35.9	<50	<200	<50
04180000	10/29/97 ^B	e11.0	<50	e10.0	e20.1	<50	<200	<50
04180000	10/29/97 ^C	e11.7	<50	e13.7	e21.1	<50	<200	<50
4131010-84521301	10/30/97	e32.2	<50	e21.1	59.5	<50	<200	<50

STATION NUMBER	DATE	2,3,6 TRIMETHYL-NAPH-THALENE, BED SED, WS <2MM DW, REC	% SAND BED MAT. <2 MM AND >.062 MM	% SILT BED MAT. <.062 MM AND >.004 MM	% CLAY BED MAT. <.004 MM
		(UG/KG) (49405)			
04160900	11/03/97	e11.6	58.4	25.5	16.1
04161540	11/04/97	e4.1	91.1	6.3	2.6
04172000	10/30/97	<100	35.7	37.6	26.7
04180000	10/29/97 ^A	e4.8	91.6	5.4	3.0
04180000	10/29/97 ^B	<50	90.7	6.1	3.2
04180000	10/29/97 ^C	<50	91.0	5.9	3.1
4131010-84521301	10/30/97	e6.5	87.5	6.8	5.7

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Shelton, L.R., and Capel, P.D., 1994, *Guidelines for collecting and processing samples of stream bed sediment for analysis of trace elements and organic contaminants for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 94-458*, 20 p.