

**Table 2.1**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**Targeted Sampling Areas, Data Needs and Sampling Objectives, and Chemical Analyses Conducted by Reach**

<b>Sampling Area</b>	<b>Sampling Area River Mile Limits</b>	<b>Data Needs and Sampling Objectives</b>	<b>Chemical Analyses</b>
Downstream section	RM 1.5 to RM 4.1	Define the vertical distribution of target chemicals in the top 24 inches of sediment to evaluate natural attenuation, and current surface sediment exposure levels.	Total PCBs, Total lead, Total PAHs
Stickney Avenue Depositional Zone	RM 4.2 to RM 4.9	Further define spatial extent, vertical distribution, and surface sediment concentrations of target chemicals in the Stickney Avenue Depositional Zone.	Total PCBs, Total lead, Total PAHs
Landfill Section	RM 4.9 to RM 6.5	Assess the frequency of elevated target chemicals by selectively identifying and sampling soft sediment deposits.	Total PCBs, Total lead, Total PAHs
		Identify potential remediation target areas.	
Segment 4	RM 6.9 to RM 8.8	Assess the frequency of elevated target chemicals by selectively identifying and sampling soft sediment deposits.	Total PCBs, Total lead, Total PAHs
		Identify potential remediation target areas.	

**Table 2.2**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**Water Depth, Probing Rod Depth, and Core Penetration Data at Each Sampling Location**

Location	Date	Time	Latitude, N (Decimal Degrees)	Longitude, W (Decimal Degrees)	River Mile	River Reach	Water Depth (ft)	Probing Rod Depth (ft)	Core Penetration (ft)	Core Recovery (ft)	% Recovery
SB03-01	10/22/03	1050	41.72492904	-83.47246285	1.1	1	1.3	9	5	5	100.0
SB03-02	10/22/03	1135	41.72379997	-83.47774077	1.5	1	1.4	9	n/a	n/a	
SB03-03	10/22/03	1230	41.72294835	-83.48273009	1.8	1	1.7	11	10	10	100.0
SB03-04	10/22/03	1300	41.71928377	-83.48466163	2	1	1.4	12	5	5	100.0
SB03-05	10/22/03	1340	41.71053799	-83.49512991	3	1	1.5	12	5	5	100.0
SB03-06	10/22/03	1410	41.7101315	-83.49746126	3.1	1	0.9	3.5	n/a	n/a	
SB03-07	10/23/03	1015	41.71133289	-83.50252386	3.45	2	0.5	12	3	3	100.0
SB03-08	10/23/03	1040	41.71113447	-83.50457715	3.52	2	0.7	6	3	2.6	86.7
SB03-09	10/23/03	1100	41.71174423	-83.50433664	3.5	2	0.7	9	3.5	3.1	88.6
SB03-10	10/23/03	1150	41.70854205	-83.50948547	3.88	2	1.9	6	2.5	2	80.0
SB03-11	10/23/03	1215	41.70746781	-83.51132757	3.95	2	0.6	12	2.4	2.1	87.5
SB03-12	10/23/03	1250	41.70620901	-83.51404927	4.05	2	0.8	12	2.5	2.3	92.0
SB03-13	10/23/03	1410	41.70469151	-83.51639514	4.1	2	0.6	7	2.6	2.4	92.3
SB03-14	10/28/03	1600	41.704476	-83.51791825	4.16	2	1	4	4	4	100.0
SB03-15	NO CORE COLLECTED - NO SEDIMENT PRESENT										
SB03-16	10/28/03	1545	41.70412561	-83.5176589	4.16	2	1	12	6	6	100.0
SB03-17	10/28/03	1455	41.70328796	-83.52000195	4.35	2	1	12	10	10	100.0
SB03-18	10/28/03	1440	41.70315158	-83.51985143	4.35	2	3	12	10	10	100.0
SB03-19	10/28/03	1420	41.70302639	-83.51953232	4.35	2	1.9	7	10	10	100.0
SB03-20	10/28/03	1320	41.70286473	-83.52130674	4.45	2	0.9	12	10	10	100.0
SB03-21	NO CORE COLLECTED - NO SEDIMENT PRESENT										
SB03-22	10/28/03	1350	41.70245961	-83.52103187	4.45	2	1.7	12	10	10	100.0
SB03-23	10/28/03	1245	41.70265381	-83.52310334	4.6	2	1.8	12	10	10	100.0
SB03-24	10/28/03	1220	41.70246392	-83.52315607	4.6	2	5.5	12	10	7	70.0
SB03-25	10/28/03	1200	41.70246392	-83.52315607	4.6	2	1	12	10	10	100.0
SB03-26	10/28/03	1120	41.70357423	-83.52470103	4.75	2	4.8	3	5.5	5.3	96.4
SB03-27	NO CORE COLLECTED - NO SEDIMENT PRESENT										
SB03-28	10/28/03	1050	41.70335628	-83.52490165	4.75	2	0.9	12	10	10	100.0
SB03-29	10/28/03	1030	41.70384213	-83.52611932	4.8	2	1	12	8.5	8	94.1
SB03-30	10/28/03	1015	41.70364642	-83.52608566	4.8	2	3.5	12	10	9.5	95.0
SB03-31	10/28/03	1000	41.70350706	-83.52604333	4.8	2	1	12	10	9.5	95.0
SB03-32	10/27/03	1220	41.69908367	-83.52979657	5.45	3	4.5	3	5	5	100.0
SB03-33	10/27/03	1150	41.6973348	-83.52980393	5.52	3	1.8	6	4	3.8	95.0
SB03-34	10/27/03	1130	41.69636141	-83.53199052	5.6	3	2.4	5	4.7	4.7	100.0

**Table 2.2**

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**Water Depth, Probing Rod Depth, and Core Penetration Data at Each Sampling Location**

Location	Date	Time	Latitude, N (Decimal Degrees)	Longitude, W (Decimal Degrees)	River Mile	River Reach	Water Depth (ft)	Probing Rod Depth (ft)	Core Penetration (ft)	Core Recovery (ft)	% Recovery
SB03-35	10/27/03	1045	41.69639877	-83.53310318	5.65	3	1.1	4	4.8	4.8	100.0
SB03-36	10/27/03	1025	41.69336523	-83.53274681	5.65	3	1.1	2.5	4.8	4.8	100.0
SB03-37	10/27/03	955	41.69424716	-83.53463464	5.72	3	1.9	6	8	7.9	98.8
SB03-38	10/27/03	925	41.69360238	-83.53522876	5.78	3	9	3	5	4.7	94.0
SB03-39	10/24/03	1155	41.69092419	-83.53809444	5.98	3	5.6	5	5	4.9	98.0
SB03-40	10/24/03	1230	41.68992278	-83.54150949	6.3	3	1	n/a	4.9	4.9	100.0
SB03-41	10/27/03	1310	41.68966364	-83.54264063	6.4	3	2.7	7	5	3.5	70.0
SB03-42	10/27/03	1355	41.68890656	-83.54658373	6.5	3	2.3	6.7	4.3	4.3	100.0
SB03-43	10/27/03	1435	41.68857632	-83.54796996	6.56	4	4.4	3.6	3.7	3.7	100.0
SB03-44	10/27/03	1500	41.68813586	-83.54953084	6.62	4	2.2	2	3.5	3.2	91.4
SB03-45	10/27/03	1530	41.68770806	-83.55184106	6.74	4	3	5	5	5	100.0
SB03-46	10/21/03	1010	See Note 3	See Note 3	7.25	4	2	6	3	3	100.0
SB03-47	10/21/03	1140	See Note 3	See Note 3	7.5	4	2	5	2	n/a	
SB03-48	10/21/03	1220	See Note 3	See Note 3	7.76	4	2.3	5	See Note 4	n/a	
SB03-49	10/21/03	1300	See Note 3	See Note 3	8.1	4	4.6	2	GRAB	n/a	
SB03-50	NO CORE COLLECTED - NO SEDIMENT PRESENT										
SB03-51	10/21/03	1440	See Note 3	See Note 3	8.35	2	n/a	n/a	GRAB	n/a	
SB03-52	10/28/2003	n/a	41.676166	-83.5752	8.52	4	0.83	n/a	GRAB	n/a	
SB03-53A	10/24/03	1115	41.692036	-83.535216	5.9	3	1.1	8	4.5	4.5	100.0
SB03-54A	10/24/03	1020	41.692461	-83.535041	5.86	3	1.3	5	3.9	3.9	100.0
SB03-55A	10/24/03	1045	41.693225	-83.535047	5.82	3	0.9	8	4.4	4.4	100.0

**Notes:**

1. All data related to sample coordinates, water depths, probing rod depths, and core penetration depths were collected by OEPA. Original data are in Appendix B.
2. River mile positions were calculated using GIS software and are based on distance upriver from the river mouth along an assigned river centerline.
3. Coordinates not available due to lack of available satellite signal during sampling.
4. At SB03-48 (13" Core) the top 6" are leaves and sticks. Whole core sediments composited, equivalent to a grab sample.
5. n/a - Information not recorded in field notes. Absence of probing depth data indicates very little or no soft sediment encountered.
6. Probing rod depth is directly equivalent to estimated total thickness of soft sediment

**Table 2.3**

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**List of Target Chemicals: Analytical Methods**

Target Chemical	Analytes	Method
Polychlorinated Biphenyls (PCBs)	Aroclor 1016	EPA 8082
	Aroclor 1221	EPA 8082
	Aroclor 1232	EPA 8082
	Aroclor 1242	EPA 8082
	Aroclor 1248	EPA 8082
	Aroclor 1254	EPA 8082
	Aroclor 1260	EPA 8082
Polycyclic Aromatic Hydrocarbons (PAHs)	Acenaphthene	8270 SIM
	Acenaphthylene	8270 SIM
	Anthracene	8270 SIM
	Benz(a)anthracene	8270 SIM
	Benzo(a)pyrene	8270 SIM
	Benzo(b)fluoranthene	8270 SIM
	Benzo(g,h,i)perylene	8270 SIM
	Benzo(k)fluoranthene	8270 SIM
	Chrysene	8270 SIM
	Dibenz(a,h)anthracene	8270 SIM
	Fluoranthene	8270 SIM
	Fluorene	8270 SIM
	Indeno(1,2,3-cd)pyrene	8270 SIM
	Naphthalene	8270 SIM
	Pentachlorophenol	8270 SIM
Phenanthrene	8270 SIM	
Pyrene	8270 SIM	
Total Lead	-	6010B
Total Organic Carbon (TOC)	-	Walkley Black
Grain Size	-	ASTM D422

**Table 3.1**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - PCB Data**

Sediment Sample ID	Congener Specific Results (µg/kg-dry)							Total PCBs
	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	
SB03-01-0-6	ND	ND	ND	520	ND	93	ND	613
SB03-01-12-18	ND	ND	ND	380	ND	110	ND	490
SB03-01-18-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-01-6-12	ND	ND	ND	1,000	ND	320	ND	1,320
SB03-02-0-6	ND	ND	ND	1,200	ND	540	ND	1,740
SB03-02-12-18	ND	ND	ND	490	ND	ND	ND	490
SB03-02-18-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-02-6-12	ND	ND	ND	ND	ND	ND	ND	ND
SB03-03-0-6	ND	ND	ND	1,300	ND	360	ND	1,660
SB03-03-12-18	ND	ND	ND	670	ND	260	ND	930
SB03-03-18-24	ND	ND	ND	ND	ND	200	ND	200
SB03-03-6-12	ND	ND	ND	770	ND	250	ND	1,020
SB03-04-0-6	ND	ND	ND	1,500	ND	400	ND	1,900
SB03-04-12-18	ND	ND	ND	ND	ND	ND	ND	ND
SB03-04-18-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-04-6-12	ND	ND	ND	780	ND	280	ND	1,060
SB03-05-0-6	ND	ND	ND	1,400	ND	410	ND	1,810
SB03-05-12-18	ND	ND	ND	ND	ND	ND	ND	ND
SB03-05-18-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-05-6-12	ND	ND	ND	500	ND	110	ND	610
SB03-06-0-6	ND	ND	ND	1,000	ND	240	ND	1,240
SB03-06-12-18	ND	ND	ND	ND	ND	ND	ND	ND
SB03-06-18-24	ND	ND	ND	680	ND	190	ND	870
SB03-06-6-12	ND	ND	ND	ND	ND	ND	ND	ND
SB03-07-0-6	ND	ND	ND	ND	ND	ND	ND	ND
SB03-07-12-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-07-12-24(DUP)	ND	ND	ND	ND	ND	3,300	ND	3,300
SB03-07-24-36	ND	ND	ND	2,500	ND	820	ND	3,320
SB03-07-6-12	ND	ND	ND	590	ND	680	ND	1,270
SB03-08-0-6	ND	ND	ND	2,200	ND	960	ND	3,160
SB03-08-12-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-08-24-32	ND	ND	ND	ND	ND	ND	ND	ND
SB03-08-6-12	ND	ND	ND	340	ND	94	ND	434
SB03-09-0-6	ND	ND	ND	1,400	ND	370	ND	1,770
SB03-09-12-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-09-24-32	ND	ND	ND	ND	ND	ND	ND	ND
SB03-09-6-12	ND	ND	ND	620	ND	190	ND	810
SB03-10-0-6	ND	ND	ND	4,300	ND	1,100	ND	5,400
SB03-10-12-18	ND	ND	ND	ND	ND	ND	ND	ND
SB03-10-6-12	ND	ND	ND	740	ND	320	ND	1,060
SB03-11-0-6	ND	ND	ND	710	ND	160	ND	870
SB03-11-12-22	ND	ND	ND	2,800	ND	630	ND	3,430
SB03-11-6-12	ND	ND	ND	550	ND	140	ND	690
SB03-12-0-6	ND	ND	ND	660	ND	200	ND	860
SB03-12-12-25	ND	ND	ND	ND	ND	ND	ND	ND
SB03-12-6-12	ND	ND	ND	230	ND	76	ND	306
SB03-13-0-6	ND	ND	ND	900	ND	220	ND	1,120

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**October 2003 Sediment Sampling Program - PCB Data**

Sediment Sample ID	Congener Specific Results (µg/kg-dry)							Total PCBs
	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	
SB03-13-12-28	ND	ND	ND	ND	ND	ND	ND	ND
SB03-13-12-28(DUP)	ND	ND	ND	ND	ND	ND	ND	ND
SB03-13-6-12	ND	ND	ND	ND	ND	ND	ND	ND
SB03-14-0-6	ND	ND	ND	ND	ND	ND	ND	ND
SB03-14-12-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-14-24-36	ND	ND	ND	ND	ND	ND	ND	ND
SB03-14-36-48	ND	ND	ND	ND	ND	ND	ND	ND
SB03-14-48-60	ND	ND	ND	ND	ND	ND	ND	ND
SB03-14-6-12	ND	ND	ND	ND	ND	ND	ND	ND
SB03-15	NO CORE COLLECTED - NO SEDIMENT PRESENT							
SB03-16-0-6	ND	ND	ND	550	ND	150	ND	700
SB03-16-12-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-16-24-36	ND	ND	ND	ND	ND	ND	ND	ND
SB03-16-36-48	ND	ND	ND	ND	ND	ND	ND	ND
SB03-16-48-60	ND	ND	ND	ND	ND	ND	ND	ND
SB03-16-60-77	ND	ND	ND	ND	ND	ND	ND	ND
SB03-16-6-12	ND	ND	ND	ND	ND	ND	ND	ND
SB03-17-0-6	ND	ND	ND	260	ND	72	ND	332
SB03-17-108-117	ND	ND	ND	ND	ND	ND	ND	ND
SB03-17-12-24	ND	ND	ND	560	ND	110	ND	670
SB03-17-24-36	ND	ND	ND	960	ND	180	ND	1,140
SB03-17-36-48	ND	ND	ND	940	ND	290	ND	1,230
SB03-17-48-60	ND	ND	ND	1,700	ND	710	ND	2,410
SB03-17-60-72	ND	ND	ND	11,000	ND	1,100	ND	12,100
SB03-17-6-12	ND	ND	ND	450	ND	120	ND	570
SB03-17-72-84	ND	ND	ND	8,100	ND	1,600	ND	9,700
SB03-17-84-96	ND	ND	ND	220	ND	220	ND	440
SB03-17-96-108	ND	ND	ND	ND	ND	ND	510	510
SB03-18-0-6	ND	ND	ND	1,300	ND	ND	ND	1,300
SB03-18-108-115	ND	ND	ND	ND	ND	ND	ND	ND
SB03-18-12-24	ND	ND	ND	820	ND	270	ND	1,090
SB03-18-24-36	ND	ND	ND	3,800	ND	970	ND	4,770
SB03-18-36-48	ND	ND	ND	5,300	ND	1,300	ND	6,600
SB03-18-48-60	ND	ND	ND	14,000	ND	ND	740	14,740
SB03-18-60-72	ND	ND	ND	15,000	ND	1,700	ND	16,700
SB03-18-6-12	ND	ND	ND	3,000	ND	500	ND	3,500
SB03-18-72-84	ND	ND	ND	11,000	ND	1,900	ND	12,900
SB03-18-84-96	ND	ND	ND	370	ND	ND	ND	370
SB03-18-96-108	ND	ND	ND	140	ND	ND	140	280
SB03-19-0-6	ND	ND	ND	ND	ND	ND	ND	ND
SB03-19-12-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-19-24-36	ND	ND	ND	ND	ND	ND	ND	ND
SB03-19-36-48	ND	ND	ND	ND	ND	ND	ND	ND
SB03-19-48-60	ND	ND	ND	ND	ND	ND	ND	ND
SB03-19-60-72	ND	ND	ND	ND	ND	ND	ND	ND
SB03-19-6-12	ND	ND	ND	ND	ND	ND	ND	ND
SB03-19-72-96	ND	ND	ND	ND	ND	ND	ND	ND

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	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	
SB03-19-96-111	ND	ND	ND	ND	ND	ND	ND	ND
SB03-20-0-6	ND	ND	ND	670	ND	170	ND	840
SB03-20-12-24	ND	ND	ND	2,100	ND	430	ND	2,530
SB03-20-24-36	ND	ND	ND	1,000	ND	960	ND	1,960
SB03-20-36-48	ND	ND	ND	800	ND	1,600	ND	2,400
SB03-20-48-60	ND	ND	ND	610	ND	600	ND	1,210
SB03-20-60-72	ND	ND	ND	41,000	ND	4,800	ND	45,800
SB03-20-6-12	ND	ND	ND	660	ND	ND	ND	660
SB03-20-72-84	ND	ND	ND	450	ND	520	ND	970
SB03-20-84-96	ND	ND	ND	920	ND	840	ND	1,760
SB03-20-96-110	ND	ND	ND	ND	ND	ND	ND	ND
SB03-21	NO CORE COLLECTED - NO SEDIMENT PRESENT							
SB03-22-0-6	ND	ND	ND	690	ND	170	ND	860
SB03-22-12-24	ND	ND	ND	93	ND	78	ND	171
SB03-22-24-36	ND	ND	ND	ND	ND	ND	ND	ND
SB03-22-36-48	ND	ND	ND	ND	ND	ND	ND	ND
SB03-22-48-60	ND	ND	ND	ND	ND	ND	ND	ND
SB03-22-60-84	ND	ND	ND	ND	ND	ND	ND	ND
SB03-22-6-12	ND	ND	ND	340	ND	420	ND	760
SB03-22-84-119	ND	ND	ND	ND	ND	ND	ND	ND
SB03-23-0-6	ND	ND	ND	450	ND	ND	ND	450
SB03-23-108-119	ND	ND	ND	ND	ND	ND	ND	ND
SB03-23-12-24	ND	ND	ND	2,100	ND	500	ND	2,600
SB03-23-24-36	ND	ND	ND	85,000	ND	6,000	ND	91,000
SB03-23-36-48	ND	ND	ND	190	ND	240	ND	430
SB03-23-48-60	ND	ND	ND	ND	ND	ND	ND	ND
SB03-23-60-72	ND	ND	ND	ND	ND	ND	ND	ND
SB03-23-6-12	ND	ND	ND	800	ND	290	ND	1,090
SB03-23-72-84	ND	ND	ND	ND	ND	ND	ND	ND
SB03-23-84-96	ND	ND	ND	ND	ND	ND	ND	ND
SB03-23-96-108	ND	ND	ND	ND	ND	ND	ND	ND
SB03-24-0-6	ND	ND	ND	1,800	ND	330	ND	2,130
SB03-24-12-24	ND	ND	ND	12,000	ND	1,700	ND	13,700
SB03-24-24-36	ND	ND	ND	1,700	ND	570	ND	2,270
SB03-24-24-36(DUP)	ND	ND	ND	1,400	ND	550	ND	1,950
SB03-24-36-48	ND	ND	ND	220	ND	300	ND	520
SB03-24-48-60	ND	ND	ND	370	ND	310	ND	680
SB03-24-60-72	ND	ND	ND	ND	ND	ND	ND	ND
SB03-24-6-12	ND	ND	ND	5,600	ND	810	ND	6,410
SB03-24-72-84	ND	ND	ND	ND	ND	ND	ND	ND
SB03-24-84-96	ND	ND	ND	ND	ND	ND	ND	ND
SB03-24-96-105	ND	ND	ND	ND	ND	ND	ND	ND
SB03-25-0-6	ND	ND	ND	1,000	ND	230	ND	1,230
SB03-25-12-24	ND	ND	ND	1,700	ND	520	ND	2,220
SB03-25-24-36	ND	ND	ND	3,000	ND	880	ND	3,880
SB03-25-36-48	ND	ND	ND	24,000	ND	2,800	ND	26,800
SB03-25-36-48(DUP)	ND	ND	ND	15,000	ND	1,600	ND	16,600

**Table 3.1**

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**October 2003 Sediment Sampling Program - PCB Data**

Sediment Sample ID	Congener Specific Results (µg/kg-dry)							Total PCBs
	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	
SB03-25-48-60	ND	ND	ND	1,200	ND	ND	ND	1,200
SB03-25-60-72	ND	ND	ND	530	ND	630	ND	1,160
SB03-25-6-12	ND	ND	ND	570	ND	160	ND	730
SB03-25-72-84	ND	ND	ND	250	ND	220	ND	470
SB03-25-84-96	ND	ND	ND	ND	ND	ND	ND	ND
SB03-25-96-111	ND	ND	ND	ND	ND	ND	ND	ND
SB03-26-0-6	ND	ND	ND	1,100	ND	1,000	ND	2,100
SB03-26-12-24	ND	ND	ND	500	ND	450	ND	950
SB03-26-24-36	ND	ND	ND	ND	ND	ND	ND	ND
SB03-26-36-48	ND	ND	ND	ND	ND	ND	ND	ND
SB03-26-48-65	ND	ND	ND	ND	ND	ND	ND	ND
SB03-26-6-12	ND	ND	ND	630	ND	890	ND	1,520
SB03-27	NO CORE COLLECTED - NO SEDIMENT PRESENT							
SB03-28-0-6	ND	ND	ND	2,600	ND	500	ND	3,100
SB03-28-12-24	ND	ND	ND	3,100	ND	590	ND	3,690
SB03-28-24-36	ND	ND	ND	1,500	ND	310	ND	1,810
SB03-28-36-48	ND	ND	ND	12,000	ND	2,300	ND	14,300
SB03-28-48-60	ND	ND	ND	8,300	ND	1,300	ND	9,600
SB03-28-60-72	ND	ND	ND	22,000	ND	2,400	ND	24,400
SB03-28-6-12	ND	ND	ND	ND	ND	ND	ND	ND
SB03-28-72-84	ND	ND	ND	31,000	ND	5,600	ND	36,600
SB03-28-84-96	ND	ND	ND	2,100	ND	1,400	ND	3,500
SB03-28-96-111	ND	ND	ND	390	ND	ND	ND	390
SB03-29-0-6	ND	ND	ND	ND	ND	ND	ND	ND
SB03-29-12-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-29-24-36	ND	ND	ND	ND	ND	ND	ND	ND
SB03-29-36-48	ND	ND	ND	ND	ND	ND	ND	ND
SB03-29-48-72	ND	ND	ND	ND	ND	ND	ND	ND
SB03-29-6-12	ND	ND	ND	ND	ND	ND	ND	ND
SB03-29-72-94	ND	ND	ND	ND	ND	ND	ND	ND
SB03-30-0-6	ND	ND	ND	630	ND	ND	ND	630
SB03-30-12-24	ND	ND	ND	2,900	ND	910	ND	3,810
SB03-30-24-36	ND	ND	ND	8,100	ND	1,300	ND	9,400
SB03-30-36-48	ND	ND	ND	18,000	ND	1,800	ND	19,800
SB03-30-48-60	ND	ND	ND	36,000	ND	4,900	ND	40,900
SB03-30-60-72	ND	ND	ND	ND	ND	580	ND	580
SB03-30-6-12	ND	ND	ND	1,200	ND	330	ND	1,530
SB03-30-72-84	ND	ND	ND	ND	ND	800	ND	800
SB03-30-84-110	ND	ND	ND	ND	ND	ND	ND	ND
SB03-31-0-6	ND	ND	ND	3,800	ND	700	ND	4,500
SB03-31-12-24	ND	ND	ND	1,100	ND	310	ND	1,410
SB03-31-24-36	ND	ND	ND	3,400	ND	850	ND	4,250
SB03-31-36-48	ND	ND	ND	14,000	ND	2,100	ND	16,100
SB03-31-48-60	ND	ND	ND	19,000	ND	2,200	ND	21,200
SB03-31-60-72	ND	ND	ND	60,000	ND	4,400	ND	64,400
SB03-31-6-12	ND	ND	ND	1,400	ND	300	ND	1,700
SB03-31-72-84	ND	ND	ND	4,400	ND	1,400	ND	5,800

**Table 3.1**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - PCB Data**

Sediment Sample ID	Congener Specific Results (µg/kg-dry)							Total PCBs
	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	
SB03-31-84-96	ND	ND	ND	ND	ND	ND	ND	ND
SB03-31-96-112	ND	ND	ND	340	ND	300	ND	640
SB03-32-0-6	ND	ND	ND	42,000	ND	2,300	ND	44,300
SB03-32-12-24	ND	ND	ND	800	ND	ND	ND	800
SB03-32-24-36	ND	ND	ND	170	ND	ND	ND	170
SB03-32-6-12	ND	ND	ND	40,000	ND	2,100	ND	42,100
SB03-33-0-6	ND	ND	ND	6,300	ND	900	ND	7,200
SB03-33-12-24	ND	ND	ND	6,900	ND	1,300	ND	8,200
SB03-33-24-36	ND	ND	ND	3,400	ND	650	ND	4,050
SB03-33-6-12	ND	ND	ND	21,000	ND	1,600	ND	22,600
SB03-34-0-6	ND	ND	ND	300	ND	1,100	ND	1,400
SB03-34-12-24	ND	ND	ND	110	ND	ND	ND	110
SB03-34-24-36	ND	ND	ND	ND	ND	ND	ND	ND
SB03-34-6-12	ND	ND	ND	220	ND	220	ND	440
SB03-35-0-6	ND	ND	ND	1,200	ND	320	ND	1,520
SB03-35-12-24	ND	ND	ND	12,000	ND	1,400	ND	13,400
SB03-35-24-36	ND	ND	ND	ND	ND	ND	ND	ND
SB03-35-6-12	ND	ND	ND	1,400	ND	370	ND	1,770
SB03-36-0-6	ND	ND	ND	ND	ND	ND	ND	ND
SB03-36-12-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-36-24-36	ND	ND	ND	ND	ND	ND	ND	ND
SB03-36-6-12	ND	ND	ND	ND	ND	ND	ND	ND
SB03-37 36-48	ND	ND	ND	ND	ND	310	ND	310
SB03-37 48-62	ND	ND	ND	ND	ND	310	ND	310
SB03-37-0-6	ND	ND	ND	41,000	ND	1,700	ND	42,700
SB03-37-12-24	ND	ND	ND	86,000	ND	2,700	ND	88,700
SB03-37-24-36	ND	ND	ND	3,100	ND	980	ND	4,080
SB03-37-24-36(DUP)	ND	ND	ND	2,600	ND	830	ND	3,430
SB03-37-6-12	ND	ND	ND	27,000	ND	1,800	ND	28,800
SB03-38-0-6	ND	ND	ND	ND	ND	ND	ND	ND
SB03-38-12-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-38-24-36	ND	ND	ND	ND	ND	ND	ND	ND
SB03-38-6-12	ND	ND	ND	ND	ND	ND	ND	ND
SB03-39-0-6	ND	ND	ND	400	ND	370	ND	770
SB03-39-12-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-39-24-36	ND	ND	ND	ND	ND	ND	ND	ND
SB03-39-24-36(DUP)	ND	ND	ND	ND	ND	ND	ND	ND
SB03-39-6-12	ND	ND	ND	200	ND	360	ND	560
SB03-40-0-6	ND	ND	ND	ND	ND	ND	ND	ND
SB03-40-12-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-40-24-36	ND	ND	ND	ND	ND	ND	ND	ND
SB03-40-6-12	ND	ND	ND	ND	ND	ND	ND	ND
SB03-41-0-6	ND	ND	ND	40,000	ND	4,200	ND	44,200
SB03-41-12-24	ND	ND	ND	180	ND	ND	ND	180
SB03-41-24-42	ND	ND	ND	ND	ND	ND	ND	ND
SB03-41-6-12	ND	ND	ND	4,500	ND	1,400	ND	5,900
SB03-42 36-52	ND	ND	ND	ND	ND	ND	ND	ND

**Table 3.1**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - PCB Data**

Sediment Sample ID	Congener Specific Results (µg/kg-dry)							Total PCBs
	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	
SB03-42-0-6	ND	ND	ND	1,000	ND	630	ND	1,630
SB03-42-12-24	ND	ND	ND	2,000	ND	1,700	ND	3,700
SB03-42-24-36	ND	ND	ND	1,000	ND	1,600	ND	2,600
SB03-42-6-12	ND	ND	ND	10,000	ND	2,500	ND	12,500
SB03-43-0-9	ND	ND	ND	350	ND	ND	46	396
SB03-43-16-28	ND	ND	ND	ND	ND	ND	ND	ND
SB03-43-28-41	ND	ND	ND	ND	ND	ND	ND	ND
SB03-43-9-16	ND	ND	ND	ND	ND	ND	ND	ND
SB03-44-0-6	ND	ND	ND	1,200	ND	1,100	ND	2,300
SB03-44-14-26	ND	ND	ND	ND	ND	ND	ND	ND
SB03-44-26-34	ND	ND	ND	ND	ND	ND	ND	ND
SB03-44-6-14	ND	ND	ND	67	ND	ND	ND	67
SB03-45-0-6	ND	ND	ND	190	ND	72	ND	262
SB03-45-12-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-45-24-36	ND	ND	ND	ND	ND	ND	ND	ND
SB03-45-6-12	ND	ND	ND	ND	ND	ND	ND	ND
SB03-46-0-6	ND	ND	ND	160	ND	ND	ND	160
SB03-46-12-24	ND	ND	ND	1,500	ND	630	ND	2,130
SB03-46-6-12	ND	ND	ND	240	ND	ND	ND	240
SB03-47-0-6	ND	ND	ND	84	ND	ND	ND	84
SB03-47-12-24	ND	ND	ND	2,200	ND	570	ND	2,770
SB03-47-6-12	ND	ND	ND	310	ND	99	ND	409
SB03-48-0-13	ND	ND	ND	190	ND	ND	ND	190
SB03-49-0-6	ND	ND	ND	79	ND	ND	ND	79
SB03-50	NO CORE COLLECTED - NO SEDIMENT PRESENT							
SB03-51-0-6	ND	ND	ND	ND	ND	ND	ND	ND
SB03-52-0-6	ND	ND	ND	250	ND	ND	ND	250
SB03-53A 36-48	ND	ND	ND	830	ND	360	ND	1,190
SB03-53A 48-56	ND	ND	ND	1,300	ND	410	ND	1,710
SB03-53A-0-6	ND	ND	ND	380,000	ND	5,500	ND	385,500
SB03-53A-12-24	ND	ND	ND	1,100,000	ND	42,000	ND	1,142,000
SB03-53A-24-36	ND	ND	ND	710,000	ND	ND	ND	710,000
SB03-53A-6-12	ND	ND	ND	120,000	ND	2,400	ND	122,400
SB03-54-12-24	ND	ND	ND	300	ND	80	ND	380
SB03-54A-0-6	ND	ND	ND	ND	150	ND	ND	150
SB03-54A-12-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-54A-24-36	ND	ND	ND	ND	ND	ND	ND	ND

**Table 3.1**

Toledo Metropolitan Area Council of Governments  
Lucas County, Ohio  
Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - PCB Data**

Sediment Sample ID	Congener Specific Results ( $\mu\text{g}/\text{kg-dry}$ )							Total PCBs
	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	
SB03-54A-6-12	ND	ND	ND	ND	ND	ND	ND	ND
SB03-55A-0-6	ND	ND	ND	ND	ND	ND	ND	ND
SB03-55A-12-24	ND	ND	ND	ND	ND	ND	ND	ND
SB03-55A-12-24(DUP)	ND	ND	ND	ND	ND	ND	ND	ND
SB03-55A-24-36	ND	ND	ND	75	ND	ND	ND	75
SB03-55A-6-12	ND	ND	ND	ND	ND	ND	ND	ND

**Notes:**

1. ND = Non-detect (reporting limit). Non-detect values ranged from 23 to 68 ug/kg.
2. Total PCB concentrations were computed by summing Aroclor results. ND results treated as zero in the sum.
3. DUP = duplicate field or analytical sample.
4. Sediment Sample ID: First portion after the "SB03" designation identifies core location, and last two numbers signify depth discrete interval, e.g., "0-6" indicates 0 to 6 inch interval.

**Table 3.2**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - PAH Data**

Sediment Sample ID	Compound Results (µg/kg-dry)																	
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Total PAHs
SB03-01-0-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-01-6-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-01-12-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-01-18-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-02-0-6	ND	ND	ND	ND	220	210	170	210	170	ND	250	ND	160	ND	ND	ND	350	1,740
SB03-02-6-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-02-12-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-02-18-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-03-0-6	ND	ND	ND	460	670	740	590	660	680	200	860	ND	470	ND	ND	260	1,100	6,690
SB03-03-6-12	ND	ND	ND	230	560	600	490	520	1,100	140	1,100	ND	180	ND	ND	420	1,100	6,440
SB03-03-12-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-03-18-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-04-0-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-04-6-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-04-12-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-04-18-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-05-0-6	ND	ND	ND	ND	ND	180	140	160	ND	ND	200	ND	140	ND	ND	ND	180	1,000
SB03-05-6-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-05-12-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-05-18-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-06-0-6	ND	ND	ND	540	620	830	530	700	760	120	1,200	ND	600	ND	ND	380	1,200	7,480
SB03-06-6-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-06-12-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-06-18-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-07-0-6	ND	ND	420	980	930	1,100	630	960	1,100	170	1,700	130	740	ND	ND	1,100	1,900	11,860
SB03-07-6-12	ND	ND	ND	150	ND	290	220	280	230	ND	350	ND	220	ND	ND	130	290	2,160

**Table 3.2**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - PAH Data**

Sediment Sample ID	Compound Results (µg/kg-dry)																	
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Total PAHs
SB03-07-12-24	ND	ND	ND	340	290	450	330	420	520	ND	880	ND	340	ND	ND	500	790	4,860
SB03-07-12-24(DUP)	ND	ND	310	1,200	1,100	1,200	600	890	1,500	330	2,200	ND	720	ND	ND	1,600	2,800	14,450
SB03-07-24-36	140	ND	320	670	870	980	630	890	1,200	190	1,500	170	620	ND	ND	1,200	2,200	11,580
SB03-08-0-6	ND	ND	210	1,000	1,100	1,200	680	850	1,400	380	1,600	ND	820	ND	ND	620	2,200	12,060
SB03-08-6-12	ND	ND	ND	620	800	970	560	600	980	310	1,100	ND	630	ND	ND	410	1,800	8,780
SB03-08-12-24	ND	ND	ND	470	460	560	290	440	670	180	1,100	ND	370	ND	ND	300	1,300	6,140
SB03-08-24-32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-09-0-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-09-6-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-09-12-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-09-24-32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-10-0-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-10-6-12	ND	ND	ND	160	170	190	ND	170	230	ND	360	ND	140	ND	ND	ND	340	1,760
SB03-10-12-18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-11-0-6	ND	ND	ND	120	140	190	130	170	180	ND	370	ND	150	ND	ND	ND	230	1,680
SB03-11-6-12	ND	ND	ND	ND	ND	130	ND	140	120	ND	270	ND	ND	ND	ND	130	240	1,030
SB03-11-12-22	ND	ND	ND	120	ND	180	130	170	160	ND	320	ND	140	ND	ND	ND	270	1,490
SB03-12-0-6	ND	ND	120	590	580	850	340	500	750	190	1,200	ND	440	ND	ND	650	1,700	7,910
SB03-12-6-12	ND	ND	ND	250	220	370	150	320	350	ND	460	ND	220	ND	ND	210	620	3,170
SB03-12-12-25	ND	ND	ND	ND	ND	160	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	160
SB03-13-0-6	ND	ND	ND	210	240	410	170	270	350	ND	460	ND	240	ND	ND	210	660	3,220
SB03-13-6-12	210	140	430	1,900	1,600	1,900	980	1,300	2,300	550	2,200	320	1,100	ND	ND	1,700	4,600	21,230
SB03-13-12-28	ND	ND	ND	430	340	510	200	330	580	150	890	ND	290	ND	ND	550	1,200	5,470
SB03-13-12-28(DUP)	ND	ND	ND	300	220	380	ND	310	400	ND	600	ND	220	ND	ND	370	1,100	3,900
SB03-14-0-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-14-6-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

**Table 3.2**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - PAH Data**

Sediment Sample ID	Compound Results (µg/kg-dry)																	
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Total PAHs
SB03-14-12-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-14-24-36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-14-36-48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-14-48-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-15	NO CORE COLLECTED - NO SEDIMENT PRESENT																	
SB03-16-0-6	ND	ND	ND	290	310	370	ND	270	340	ND	560	ND	ND	ND	ND	200	410	2,750
SB03-16-6-12	410	ND	860	2,600	2,300	3,400	1,800	1,400	3,400	880	6,800	560	1,900	140	ND	1,600	3,700	31,750
SB03-16-12-24	ND	ND	310	740	490	680	400	400	970	240	1,700	ND	460	ND	ND	1,100	1,100	8,590
SB03-16-24-36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-16-36-48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-16-48-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-16-60-77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-17-0-6	ND	ND	140	620	690	720	240	620	690	150	1,200	ND	340	ND	ND	600	1,300	7,310
SB03-17-6-12	ND	ND	ND	150	160	250	65	170	210	ND	360	ND	140	ND	ND	210	400	2,115
SB03-17-12-24	ND	ND	220	530	490	610	350	500	640	190	1,500	110	430	ND	ND	1,200	1,100	7,870
SB03-17-24-36	ND	ND	120	320	360	430	160	340	430	110	970	ND	240	ND	ND	630	870	4,980
SB03-17-36-48	ND	ND	ND	260	300	490	140	190	380	ND	750	ND	220	ND	ND	380	610	3,720
SB03-17-48-60	ND	ND	ND	ND	ND	260	ND	140	190	ND	370	ND	130	ND	ND	180	300	1,570
SB03-17-60-72	ND	ND	ND	ND	ND	230	ND	ND	120	ND	200	ND	ND	ND	ND	ND	160	710
SB03-17-72-84	ND	ND	ND	120	ND	250	ND	110	170	ND	310	ND	130	ND	ND	170	240	1,500
SB03-17-84-96	ND	ND	ND	330	290	460	160	190	440	ND	820	ND	220	ND	ND	490	650	4,050
SB03-17-96-108	ND	ND	ND	340	340	470	150	290	520	ND	830	ND	240	ND	ND	520	840	4,540
SB03-17-108-117	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-18-0-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-18-6-12	ND	ND	ND	400	380	510	240	310	480	150	1,100	ND	320	ND	ND	560	730	5,180
SB03-18-12-24	ND	ND	160	620	590	680	400	610	750	ND	1,000	ND	440	ND	ND	660	1,200	7,110

**Table 3.2**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - PAH Data**

Sediment Sample ID	Compound Results (µg/kg-dry)																	
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Total PAHs
SB03-18-24-36	ND	ND	ND	360	340	450	ND	430	510	ND	740	ND	ND	ND	ND	430	1,000	4,260
SB03-18-36-48	ND	ND	ND	180	190	280	ND	200	260	ND	360	ND	200	ND	ND	200	360	2,230
SB03-18-48-60	ND	ND	ND	ND	ND	ND	ND	ND	160	ND	250	ND	ND	ND	ND	140	250	800
SB03-18-60-72	ND	ND	ND	160	170	240	ND	190	260	ND	330	ND	190	ND	ND	220	390	2,150
SB03-18-72-84	ND	ND	ND	ND	ND	ND	ND	ND	130	ND	190	ND	ND	ND	ND	120	200	640
SB03-18-84-96	ND	ND	ND	ND	ND	ND	ND	ND	140	ND	250	ND	ND	ND	ND	150	190	730
SB03-18-96-108	ND	ND	ND	200	200	290	150	220	350	ND	400	ND	250	ND	ND	310	500	2,870
SB03-18-108-115	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-19-0-6	ND	ND	ND	180	150	190	ND	150	250	ND	340	ND	140	ND	ND	180	410	1,990
SB03-19-6-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-19-12-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-19-24-36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-19-36-48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-19-48-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-19-60-72	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-19-72-96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-19-96-111	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-20-0-6	ND	ND	ND	140	ND	ND	ND	ND	200	ND	290	ND	ND	ND	ND	ND	250	880
SB03-20-6-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-20-12-24	ND	ND	110	530	610	740	500	590	800	250	1,300	ND	530	ND	ND	600	1,000	7,560
SB03-20-24-36	ND	ND	ND	280	ND	ND	ND	ND	380	ND	560	ND	ND	ND	ND	ND	550	1,770
SB03-20-36-48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-20-48-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	340	ND	ND	ND	ND	250	260	850
SB03-20-60-72	ND	ND	ND	ND	ND	150	ND	ND	140	ND	230	ND	ND	ND	ND	ND	200	720
SB03-20-72-84	170	ND	440	1,200	1,100	1,400	870	870	1,700	470	3,400	350	980	ND	ND	2,100	1,900	16,950
SB03-20-84-96	ND	ND	170	530	450	610	340	330	790	210	1,300	150	370	ND	ND	820	820	6,890

**Table 3.2**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - PAH Data**

Sediment Sample ID	Compound Results (µg/kg-dry)																	
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Total PAHs
SB03-20-96-110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-21	NO CORE COLLECTED - NO SEDIMENT PRESENT																	
SB03-22-0-6	ND	ND	ND	ND	ND	ND	ND	ND	87	ND	150	ND	ND	ND	ND	ND	130	367
SB03-22-6-12	ND	ND	ND	240	ND	ND	ND	ND	410	ND	500	ND	ND	ND	170	320	600	2,240
SB03-22-12-24	ND	ND	490	1,800	1,600	2,100	1,200	1,300	2,900	750	3,900	ND	1,500	ND	ND	1,900	3,800	23,240
SB03-22-24-36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-22-36-48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-22-48-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-22-60-84	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-22-84-119	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-23-0-6	ND	ND	ND	ND	ND	290	130	130	ND	ND	150	ND	180	ND	ND	ND	120	1,000
SB03-23-6-12	ND	ND	ND	ND	ND	170	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170
SB03-23-12-24	ND	ND	ND	ND	ND	170	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170
SB03-23-24-36	ND	ND	ND	ND	ND	170	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170
SB03-23-36-48	ND	ND	ND	ND	ND	170	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170
SB03-23-48-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-23-60-72	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-23-72-84	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-23-84-96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-23-96-108	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-23-108-119	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-24-0-6	ND	ND	ND	ND	ND	160	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	160
SB03-24-6-12	ND	ND	ND	ND	ND	220	ND	ND	ND	ND	140	ND	ND	ND	ND	ND	130	490
SB03-24-12-24	ND	ND	ND	ND	ND	250	ND	ND	180	ND	240	ND	ND	ND	ND	130	250	1,050
SB03-24-24-36	ND	ND	ND	ND	ND	210	ND	ND	ND	ND	140	ND	ND	ND	ND	ND	130	480
SB03-24-24-36(DUP)	ND	ND	ND	ND	ND	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	200

**Table 3.2**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - PAH Data**

Sediment Sample ID	Compound Results (µg/kg-dry)																	
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Total PAHs
SB03-24-36-48	ND	ND	ND	ND	ND	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190
SB03-24-48-60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-24-60-72	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-24-72-84	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-24-84-96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-24-96-105	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-25-0-6	ND	ND	ND	210	260	400	140	240	300	ND	530	ND	220	ND	ND	250	510	3,060
SB03-25-6-12	ND	ND	ND	ND	ND	230	ND	ND	160	ND	270	ND	120	ND	ND	130	250	1,160
SB03-25-12-24	ND	ND	ND	110	120	220	ND	150	180	ND	300	ND	120	ND	ND	150	300	1,650
SB03-25-24-36	ND	ND	ND	180	200	380	ND	170	280	ND	480	ND	170	ND	ND	220	430	2,510
SB03-25-36-48	ND	ND	ND	ND	ND	230	ND	120	150	ND	280	ND	ND	ND	ND	150	220	1,150
SB03-25-36-48(DUP)	ND	ND	ND	160	ND	ND	ND	ND	210	ND	290	ND	ND	ND	ND	240	340	1,240
SB03-25-48-60	ND	ND	ND	ND	ND	250	ND	ND	150	ND	230	ND	ND	ND	ND	150	190	970
SB03-25-60-72	ND	ND	ND	250	310	470	170	240	480	ND	730	ND	260	ND	ND	440	670	4,020
SB03-25-72-84	ND	ND	ND	ND	ND	230	ND	ND	160	ND	250	ND	ND	ND	ND	ND	200	840
SB03-25-84-96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-25-96-111	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-26-0-6	ND	ND	280	480	1,100	880	660	440	1,400	250	1,600	150	640	ND	ND	880	1,700	10,460
SB03-26-6-12	ND	ND	490	1,100	1,200	990	650	980	1,400	350	1,700	230	720	ND	ND	1,100	2,000	12,910
SB03-26-12-24	ND	ND	ND	1,400	2,400	1,100	1,000	1,100	1,700	630	3,300	ND	910	ND	ND	ND	2,900	16,440
SB03-26-24-36	ND	ND	ND	ND	ND	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110
SB03-26-36-48	110	140	540	1,100	2,100	1,900	1,200	1,800	3,400	420	3,300	200	970	ND	ND	1,200	2,700	21,080
SB03-26-48-65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-27	NO CORE COLLECTED - NO SEDIMENT PRESENT																	
SB03-28-0-6	200	ND	590	1,800	1,800	2,200	1,400	1,800	2,400	670	4,700	240	1,600	ND	ND	2,500	3,000	24,900
SB03-28-6-12	ND	ND	280	1,200	1,100	1,400	920	1,100	1,500	420	2,600	110	980	ND	ND	1,400	1,900	14,910

**Table 3.2**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - PAH Data**

Sediment Sample ID	Compound Results (µg/kg-dry)																	
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Total PAHs
SB03-28-12-24	ND	ND	ND	220	210	410	170	350	300	ND	150	ND	240	ND	ND	ND	130	2,180
SB03-28-24-36	110	ND	100	430	200	600	330	570	520	ND	1,200	150	400	ND	ND	1,300	1,000	6,910
SB03-28-36-48	ND	ND	ND	420	410	580	260	320	480	140	1,000	ND	320	ND	ND	510	760	5,200
SB03-28-48-60	ND	ND	ND	ND	ND	220	ND	ND	140	ND	220	ND	120	ND	ND	ND	180	880
SB03-28-60-72	ND	ND	ND	ND	ND	230	ND	ND	150	ND	260	ND	120	ND	ND	120	200	1,080
SB03-28-72-84	ND	ND	ND	180	180	290	ND	160	250	ND	450	ND	160	ND	ND	250	300	2,220
SB03-28-84-96	190	ND	590	920	820	840	340	590	870	210	2,600	310	440	ND	ND	2,200	1,700	12,620
SB03-28-96-111	ND	ND	ND	ND	ND	190	ND	ND	120	ND	220	ND	ND	ND	ND	140	170	840
SB03-29-0-6	ND	ND	180	400	310	470	160	140	520	ND	930	ND	240	ND	ND	210	960	4,520
SB03-29-6-12	ND	ND	ND	ND	ND	220	ND	ND	ND	ND	200	ND	ND	ND	ND	ND	170	590
SB03-29-12-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-29-24-36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-29-36-48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-29-48-72	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-29-72-94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-30-0-6	ND	ND	ND	330	330	490	190	370	410	120	710	ND	270	ND	ND	290	530	4,040
SB03-30-6-12	ND	130	360	1,400	1,300	1,600	570	640	1,500	310	2,800	140	650	ND	ND	1,100	2,000	14,500
SB03-30-12-24	ND	ND	ND	260	280	400	150	220	330	ND	650	ND	220	ND	ND	350	440	3,300
SB03-30-24-36	ND	ND	ND	120	ND	260	67	ND	170	ND	280	ND	130	ND	ND	140	220	1,387
SB03-30-36-48	ND	ND	ND	140	140	340	ND	ND	190	ND	360	ND	150	ND	ND	160	290	1,770
SB03-30-48-60	ND	ND	ND	ND	330	420	200	310	ND	130	910	ND	260	ND	ND	440	660	3,660
SB03-30-60-72	ND	ND	110	300	290	410	140	240	380	ND	760	57	210	ND	ND	470	660	4,027
SB03-30-72-84	120	ND	290	700	600	680	340	580	790	190	1,700	170	390	ND	ND	1,100	1,400	9,050
SB03-30-84-110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-31-0-6	ND	ND	230	970	710	1,600	780	850	1,200	360	2,400	120	870	ND	ND	1,200	1,900	13,190
SB03-31-6-12	ND	ND	ND	98	ND	640	360	440	150	160	310	ND	420	ND	ND	140	230	2,948

**Table 3.2**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - PAH Data**

Sediment Sample ID	Compound Results (µg/kg-dry)																	
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Total PAHs
SB03-31-12-24	ND	ND	ND	180	ND	610	330	340	390	160	500	ND	390	ND	ND	450	390	3,740
SB03-31-24-36	ND	ND	ND	130	ND	540	330	410	210	170	390	ND	400	ND	ND	220	320	3,120
SB03-31-36-48	ND	ND	ND	ND	ND	230	ND	120	ND	ND	180	ND	130	ND	ND	ND	180	840
SB03-31-48-60	ND	ND	ND	150	ND	330	ND	180	220	ND	340	ND	170	ND	ND	200	350	1,940
SB03-31-60-72	190	ND	300	640	560	730	360	460	770	190	1,700	190	410	440	ND	2,000	1,700	10,640
SB03-31-72-84	ND	ND	170	420	390	520	180	280	510	ND	960	ND	260	ND	ND	890	1,100	5,680
SB03-31-84-96	ND	ND	ND	290	280	390	150	240	400	ND	700	ND	200	ND	ND	550	830	4,030
SB03-31-96-112	ND	ND	ND	ND	ND	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	92	222
SB03-32-0-6	ND	ND	210	710	690	800	390	700	1,000	220	1,300	130	490	ND	ND	760	1,700	9,100
SB03-32-6-12	ND	ND	140	520	460	620	320	470	620	190	960	ND	400	ND	ND	600	1,200	6,500
SB03-32-12-24	220	ND	390	860	770	840	410	520	1,000	240	1,300	290	480	ND	ND	1,400	2,600	11,320
SB03-32-24-36	ND	ND	ND	240	220	270	ND	210	320	ND	360	ND	150	ND	ND	160	440	2,370
SB03-33-0-6	190	ND	500	1,400	1,400	1,400	660	1,200	1,700	350	3,000	250	820	ND	ND	2,300	3,400	18,570
SB03-33-6-12	ND	ND	200	800	850	1,000	540	810	1,100	250	1,800	140	610	ND	ND	1,000	2,200	11,300
SB03-33-12-24	120	ND	250	1,000	1,100	1,200	580	990	1,300	320	2,000	160	680	ND	ND	1,200	2,700	13,600
SB03-33-24-36	410	82	1,900	9,500	6,000	7,100	1,400	2,500	9,600	930	17,000	910	1,800	ND	ND	11,000	16,000	86,132
SB03-34-0-6	ND	ND	ND	ND	ND	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	150
SB03-34-6-12	ND	ND	400	940	2,000	1,000	950	820	1,400	590	2,000	210	860	ND	ND	980	2,200	14,350
SB03-34-12-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110	ND	ND	ND	ND	ND	ND	110
SB03-34-24-36	ND	ND	ND	ND	ND	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130
SB03-35-0-6	ND	ND	270	540	1,200	1,100	940	1,100	1,800	340	2,400	ND	910	ND	ND	980	1,900	13,480
SB03-35-6-12	ND	ND	180	360	660	510	300	570	870	140	1,400	ND	330	ND	ND	610	980	6,910
SB03-35-12-24	ND	ND	ND	ND	ND	200	ND	ND	ND	ND	150	ND	ND	ND	ND	ND	150	500
SB03-35-24-36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-36-0-6	230	ND	560	1,300	1,300	1,300	610	840	1,400	330	2,300	240	710	ND	ND	1,800	3,500	16,420
SB03-36-6-12	ND	ND	ND	ND	ND	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	150

**Table 3.2**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - PAH Data**

Sediment Sample ID	Compound Results (µg/kg-dry)																	
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Total PAHs
SB03-36-12-24	ND	ND	ND	110	110	230	ND	ND	140	ND	270	ND	130	ND	ND	150	270	1,410
SB03-36-24-36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-37-0-6	110	ND	240	970	970	1,100	460	850	1,300	240	2,200	150	530	ND	ND	1,300	2,500	12,920
SB03-37-6-12	ND	ND	160	490	510	650	260	460	660	140	1,200	110	330	ND	ND	750	1,400	7,120
SB03-37-12-24	ND	ND	200	600	590	670	280	550	760	170	1,400	160	350	ND	ND	1,000	1,800	8,530
SB03-37-24-36	170	210	440	1,400	1,300	1,200	620	1,100	1,500	360	2,200	320	750	ND	ND	1,500	3,100	16,170
SB03-37-24-36(DUP)	570	110	960	2,300	2,100	2,400	1,100	1,200	2,400	550	3,900	810	1,300	490	ND	11,000	14,000	45,190
SB03-38-0-6	ND	ND	260	ND	ND	91	ND	ND	140	ND	ND	ND	ND	ND	ND	ND	ND	491
SB03-38-6-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-38-12-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-38-24-36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-39-0-6	ND	ND	ND	ND	ND	280	ND	ND	150	ND	240	ND	130	ND	ND	150	220	1,170
SB03-39-6-12	ND	ND	ND	ND	ND	170	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170
SB03-39-12-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-39-24-36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-39-24-36(DUP)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-40-0-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-40-6-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-40-12-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-40-24-36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-41-0-6	ND	ND	190	690	630	810	460	630	910	240	1,200	170	540	ND	ND	900	1,700	9,070
SB03-41-6-12	340	170	1,000	2,400	2,000	2,200	1,100	1,200	2,400	630	4,000	630	1,300	ND	ND	3,400	4,900	27,670
SB03-41-12-24	93	ND	160	530	390	580	270	580	600	160	1,200	160	360	ND	ND	820	1,200	7,103
SB03-41-24-42	ND	ND	ND	120	ND	190	ND	110	120	ND	280	ND	89	ND	ND	200	250	1,359
SB03-42-0-6	220	ND	680	1,200	1,100	1,100	590	890	1,400	330	2,500	370	710	ND	ND	1,700	2,900	15,690
SB03-42-6-12	130	150	550	1,400	1,300	1,500	610	1,200	1,600	370	2,300	260	790	ND	ND	1,400	3,100	16,660

**Table 3.2**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - PAH Data**

Sediment Sample ID	Compound Results (µg/kg-dry)																	
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Total PAHs
SB03-42-12-24	ND	ND	160	490	510	600	240	420	610	160	1,100	150	340	ND	ND	900	1,300	6,980
SB03-42-24-36	ND	ND	170	740	630	880	400	530	840	230	1,400	130	510	ND	ND	960	1,700	9,120
SB03-43-0-9	ND	ND	ND	ND	ND	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110
SB03-43-9-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-43-16-28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-43-28-41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-44-0-6	ND	ND	ND	ND	ND	160	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	160
SB03-44-6-14	ND	ND	ND	150	150	310	ND	160	230	ND	370	ND	140	ND	ND	280	330	2,120
SB03-44-14-26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-44-26-34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-45-0-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-45-6-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-45-12-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-45-24-36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-46-0-6	ND	ND	150	650	530	500	350	470	500	ND	460	ND	590	ND	ND	390	1,200	5,790
SB03-46-6-12	ND	ND	ND	190	170	160	ND	150	130	ND	190	ND	200	ND	ND	150	340	1,680
SB03-46-12-24	300	ND	340	1,500	1,400	1,200	860	1,100	1,500	300	3,100	300	810	ND	ND	2,400	3,000	18,110
SB03-47-0-6	ND	ND	ND	250	240	230	170	230	200	ND	250	ND	310	ND	ND	180	380	2,440
SB03-47-6-12	ND	ND	ND	170	160	140	ND	130	140	ND	200	ND	220	ND	ND	160	280	1,600
SB03-47-12-24	ND	ND	190	870	740	700	490	650	680	ND	570	ND	810	ND	ND	440	1,400	7,540
SB03-48-0-13	ND	ND	130	430	320	280	170	290	270	ND	270	ND	420	ND	ND	300	820	3,700
SB03-49-0-6	ND	ND	ND	350	310	320	210	320	250	ND	300	ND	350	ND	110	180	590	3,290
SB03-50	NO CORE COLLECTED - NO SEDIMENT PRESENT																	
SB03-51-0-6	ND	ND	ND	400	370	430	310	370	330	ND	280	ND	630	ND	ND	180	770	4,070
SB03-52-0-6	370	ND	200	440	390	380	210	340	500	130	1,200	180	280	ND	ND	480	910	6,010
SB03-54-12-24	170	ND	240	1,400	1,200	1,300	760	780	1,300	260	2,300	190	840	ND	ND	710	2,700	14,150

**Table 3.2**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - PAH Data**

Sediment Sample ID	Compound Results (µg/kg-dry)																	
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene	Total PAHs
SB03-53A-0-6	490	ND	720	2,100	2,100	1,700	860	2,200	2,500	460	3,300	670	1,000	410	ND	4,300	6,800	29,610
SB03-53A-6-12	130	ND	150	570	570	780	290	270	840	160	1,100	270	350	ND	ND	1,000	1,800	8,280
SB03-53A-12-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	320	ND	ND	ND	ND	620	220	1,160
SB03-53A-24-36	ND	ND	ND	1,000	990	1,300	630	600	1,500	320	560	480	690	ND	ND	ND	3,500	11,570
SB03-54A-0-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-54A-6-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-54A-12-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-54A-24-36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-55A-0-6	ND	ND	ND	440	900	530	280	360	940	ND	980	ND	330	ND	ND	ND	1,300	6,060
SB03-55A-6-12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-55A-12-24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-55A-12-24(DUP)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB03-55A-24-36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

**Notes:**

1. Non-detect values ranged from 11 to 34 ug/kg.
2. Total PAH concentrations were computed by summing individual component results. ND results treated as zero in the sum.
3. DUP = duplicate field or analytical sample.
4. Sediment Sample ID: First portion after the "SB03" designation identifies core location, and last two numbers signify depth discrete interval, e.g., "0-6" indicates 0 to 6 inch interval.

**Table 3.3**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - Total Lead Data**

Sediment Sample ID	Results (mg/kg-dry)	Sediment Sample ID	Results (mg/kg-dry)	Sediment Sample ID	Results (mg/kg-dry)
SB03-01-0-6	94	SB03-13-12-28	420	SB03-20-6-12	220
SB03-01-6-12	120	SB03-13-12-28(DUP)	370	SB03-20-12-24	210
SB03-01-12-18	120	SB03-14-0-6	16	SB03-20-24-36	210
SB03-01-18-24	120	SB03-14-6-12	11	SB03-20-36-48	250
SB03-02-0-6	120	SB03-14-12-24	7.4	SB03-20-48-60	380
SB03-02-6-12	160	SB03-14-24-36	3.5 J	SB03-20-60-72	270
SB03-02-12-18	90	SB03-14-36-48	11	SB03-20-72-84	300
SB03-02-18-24	32	SB03-14-48-60	10	SB03-20-84-96	470
SB03-03-0-6	120	SB03-15	See Note 3	SB03-20-96-110	130
SB03-03-6-12	140	SB03-16-0-6	270	SB03-21	See Note 3
SB03-03-12-18	170	SB03-16-6-12	390	SB03-22-0-6	100
SB03-03-18-24	170	SB03-16-12-24	220	SB03-22-6-12	230
SB03-04-0-6	120	SB03-16-24-36	110	SB03-22-12-24	160
SB03-04-6-12	160	SB03-16-36-48	15	SB03-22-24-36	22
SB03-04-12-18	28	SB03-16-48-60	12	SB03-22-36-48	12
SB03-04-18-24	11 J	SB03-16-60-77	9.5	SB03-22-48-60	12
SB03-05-0-6	150	SB03-17-0-6	190	SB03-22-60-84	6.5
SB03-05-6-12	77	SB03-17-6-12	180	SB03-22-84-119	7.4
SB03-05-12-18	20	SB03-17-12-24	160	SB03-23-0-6	160
SB03-05-18-24	12 J	SB03-17-24-36	200	SB03-23-6-12	160
SB03-06-0-6	100	SB03-17-36-48	270	SB03-23-12-24	200
SB03-06-6-12	120	SB03-17-48-60	260	SB03-23-24-36	300
SB03-06-12-18	30	SB03-17-60-72	290	SB03-23-36-48	270
SB03-06-18-24	8.8	SB03-17-72-84	260	SB03-23-48-60	12
SB03-07-0-6	100	SB03-17-84-96	260	SB03-23-60-72	10
SB03-07-6-12	180	SB03-17-96-108	190	SB03-23-72-84	8.1
SB03-07-12-24	260	SB03-17-108-117	8.5	SB03-23-84-96	5.3 J
SB03-07-12-24(DUP)	260	SB03-18-0-6	120	SB03-23-96-108	4.8 J
SB03-07-24-36	250	SB03-18-6-12	170	SB03-23-108-119	6.2
SB03-08-0-6	160	SB03-18-12-24	230	SB03-24-0-6	270
SB03-08-6-12	290	SB03-18-24-36	230	SB03-24-6-12	280
SB03-08-12-24	190	SB03-18-36-48	230	SB03-24-12-24	250
SB03-08-24-32	15	SB03-18-48-60	250	SB03-24-24-36	290
SB03-09-0-6	120	SB03-18-60-72	260	SB03-24-24-36(DUP)	250
SB03-09-6-12	170	SB03-18-72-84	210	SB03-24-36-48	270
SB03-09-12-24	240	SB03-18-84-96	270	SB03-24-48-60	56
SB03-09-24-32	100	SB03-18-96-108	210	SB03-24-60-72	6.2 J
SB03-10-0-6	180	SB03-18-108-115	7.7	SB03-24-72-84	5.3 J
SB03-10-6-12	120	SB03-19-0-6	280	SB03-24-84-96	5.6 J
SB03-10-12-18	5.3 J	SB03-19-6-12	26	SB03-24-96-105	5.3 J
SB03-11-0-6	130	SB03-19-12-24	7.6 J	SB03-25-0-6	120
SB03-11-6-12	200	SB03-19-24-36	6.7 J	SB03-25-6-12	170
SB03-11-12-22	190	SB03-19-36-48	5.7 J	SB03-25-12-24	220
SB03-12-0-6	160	SB03-19-48-60	5.6 J	SB03-25-24-36	230
SB03-12-6-12	140	SB03-19-60-72	2.9 J	SB03-25-36-48	250
SB03-12-12-25	30	SB03-19-72-96	4.9 J	SB03-25-36-48(DUP)	230
SB03-13-0-6	180	SB03-19-96-111	4.5 J	SB03-25-48-60	240
SB03-13-6-12	260	SB03-20-0-6	110	SB03-25-60-72	340
SB03-25-72-84	77	SB03-32-6-12	150	SB03-43-28-41	7.5
SB03-25-84-96	49	SB03-32-12-24	300	SB03-44-0-6	220
SB03-25-96-111	4 J	SB03-32-24-36	82	SB03-44-6-14	380
SB03-26-0-6	270	SB03-33-0-6	86	SB03-44-14-26	8.7

**Table 3.3**

Toledo Metropolitan Area Council of Governments  
Lucas County, Ohio  
Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - Total Lead Data**

Sediment Sample ID	Results (mg/kg-dry)	Sediment Sample ID	Results (mg/kg-dry)	Sediment Sample ID	Results (mg/kg-dry)
SB03-26-6-12	370	SB03-33-6-12	130	SB03-44-26-34	8.5
SB03-26-12-24	330	SB03-33-12-24	160	SB03-45-0-6	14
SB03-26-24-36	25	SB03-33-24-36	84	SB03-45-6-12	14
SB03-26-36-48	10	SB03-34-0-6	180	SB03-45-12-24	8.5
SB03-26-48-65	9.6	SB03-34-6-12	320	SB03-45-24-36	7.6
SB03-27	See Note 3	SB03-34-12-24	60	SB03-46-0-6	85
SB03-28-0-6	100	SB03-34-24-36	6.5 J	SB03-46-6-12	300
SB03-28-6-12	120	SB03-35-0-6	84	SB03-46-12-24	180
SB03-28-12-24	120	SB03-35-6-12	120	SB03-47-0-6	200
SB03-28-24-36	220	SB03-35-12-24	130	SB03-47-6-12	270
SB03-28-24-36	230	SB03-35-24-36	11 J	SB03-47-12-24	230
SB03-28-36-48	290	SB03-36-0-6	220	SB03-48-0-13	110
SB03-28-48-60	250	SB03-36-6-12	35	SB03-49-0-6	44
SB03-28-60-72	270	SB03-36-12-24	8.6	SB03-50	See Note 3
SB03-28-72-84	250	SB03-36-24-36	8.7	SB03-51-0-6	38
SB03-28-84-96	260	SB03-37-0-6	110	SB03-52-0-6	13
SB03-28-96-111	170	SB03-37-6-12	140	SB03-53A-0-6	680
SB03-29-0-6	300	SB03-37-12-24	290	SB03-53A-6-12	400
SB03-29-6-12	160	SB03-37-24-36	180	SB03-53A-12-24	480
SB03-29-12-24	61	SB03-37-24-36(DUP)	530	SB03-53A-24-36	400
SB03-29-24-36	7.4 J	SB03-38-0-6	5.6	SB03-54-12-24	190
SB03-29-36-48	3.6 J	SB03-38-6-12	6.2	SB03-54A-0-6	13
SB03-29-48-72	3.6 J	SB03-38-12-24	6.9	SB03-54A-6-12	15
SB03-29-72-94	2.1 J	SB03-38-24-36	6.6	SB03-54A-12-24	15
SB03-30-0-6	170	SB03-39-0-6	370	SB03-54A-24-36	14
SB03-30-6-12	130	SB03-39-6-12	320	SB03-55A-0-6	320
SB03-30-12-24	210	SB03-39-12-24	18	SB03-55A-6-12	34
SB03-30-24-36	210	SB03-39-24-36	22	SB03-55A-12-24(DUP)	13
SB03-30-36-48	260	SB03-39-24-36(DUP)	18	SB03-55A-12-24	18
SB03-30-48-60	320	SB03-40-0-6	10	SB03-55A-24-36	7.1
SB03-30-60-72	260	SB03-40-6-12	11		
SB03-30-72-84	280	SB03-40-12-24	12		
SB03-30-84-110	5.5 J	SB03-40-24-36	11		
SB03-31-0-6	110	SB03-41-0-6	350		
SB03-31-6-12	110	SB03-41-6-12	290		
SB03-31-12-24	170	SB03-41-12-24	58		
SB03-31-24-36	210	SB03-41-24-42	13		
SB03-31-36-48	260	SB03-42-0-6	610		
SB03-31-48-60	290	SB03-42-6-12	370		
SB03-31-60-72	270	SB03-42-12-24	310		
SB03-31-72-84	260	SB03-42-24-36	340		
SB03-31-84-96	260	SB03-43-0-9	27		
SB03-31-96-112	60	SB03-43-9-16	8		
SB03-32-0-6	170	SB03-43-16-28	8.3		

**Notes:**

1. DUP = duplicate field or analytical sample.
2. J = Estimated value. Lead was detected in all samples.
3. No core collected because no sediment present.
4. Sediment Sample ID: First portion after the "SB03" designation identifies core location, and last two numbers signify depth discrete interval, e.g., "0-6" indicates 0 to 6 inch interval.

**Table 3.4**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - Summary of Total PCB, Total PAH, and Total Lead Data**

Sediment Sample ID	Sample Location	River Mile	River Reach	Top Depth (in)	Bottom Depth (in)	Total PCB Concentration (µg/kg-dry)	Total PAH Concentration (µg/kg-dry)	Total Lead Concentration (mg/kg dry)
SB03-01-0-6	1	1.1	1	0	6	613	ND (23)	94
SB03-01-6-12	1	1.1	1	6	12	1,320	ND (22)	120
SB03-01-12-18	1	1.1	1	12	18	490	ND (21)	120
SB03-01-18-24	1	1.1	1	18	24	ND (41)	ND (21)	120
SB03-02-0-6	2	1.5	1	0	6	1,740	1,740	120
SB03-02-6-12	2	1.5	1	6	12	ND (42)	ND (21)	160
SB03-02-12-18	2	1.5	1	12	18	490	ND (21)	90
SB03-02-18-24	2	1.5	1	18	24	ND (42)	ND (21)	32
SB03-03-0-6	3	1.8	1	0	6	1,660	6,690	120
SB03-03-6-12	3	1.8	1	6	12	1,020	6,440	140
SB03-03-12-18	3	1.8	1	12	18	930	ND (22)	170
SB03-03-18-24	3	1.8	1	18	24	200	ND (23)	170
SB03-04-0-6	4	2	1	0	6	1,900	ND (22)	120
SB03-04-6-12	4	2	1	6	12	1,060	ND (22)	160
SB03-04-12-18	4	2	1	12	18	ND (52)	ND (26)	28
SB03-04-18-24	4	2	1	18	24	ND (68)	ND (34)	11 J
SB03-05-0-6	5	3	1	0	6	1,810	1,000	150
SB03-05-6-12	5	3	1	6	12	610	ND (23)	77
SB03-05-12-18	5	3	1	12	18	ND (61)	ND (30)	20
SB03-05-18-24	5	3	1	18	24	ND (64)	ND (32)	12 J
SB03-06-0-6	6	3.1	1	0	6	1,240	7,480	100
SB03-06-6-12	6	3.1	1	6	12	ND (33)	ND (17)	120
SB03-06-12-18	6	3.1	1	12	18	ND (31)	ND (15)	30
SB03-06-18-24	6	3.1	1	18	24	870	ND (12)	8.8
SB03-07-0-6	7	3.45	2	0	6	ND (34)	11,860	100
SB03-07-6-12	7	3.45	2	6	12	1,270	2,160	180
SB03-07-12-24	7	3.45	2	12	24	ND (45)	4,860	260
SB03-07-12-24(DUP)	7	3.45	2	12	24(DUP)	3,300	14,450	260
SB03-07-24-36	7	3.45	2	24	36	3,320	11,580	250
SB03-08-0-6	8	3.52	2	0	6	3,160	12,060	160
SB03-08-6-12	8	3.52	2	6	12	434	8,780	290
SB03-08-12-24	8	3.52	2	12	24	ND (43)	6,140	190
SB03-08-24-32	8	3.52	2	24	32	ND (52)	ND (26)	15
SB03-09-0-6	9	3.5	2	0	6	1,770	ND (19)	120
SB03-09-6-12	9	3.5	2	6	12	810	ND (19)	170
SB03-09-12-24	9	3.5	2	12	24	ND (42)	ND (21)	240
SB03-09-24-32	9	3.5	2	24	32	ND (52)	ND (25)	100
SB03-10-0-6	10	3.88	2	0	6	5,400	ND (19)	180
SB03-10-6-12	10	3.88	2	6	12	1,060	1,760	120
SB03-10-12-18	10	3.88	2	12	18	ND (47)	ND (24)	5.3 J
SB03-11-0-6	11	3.95	2	0	6	870	1,680	130
SB03-11-6-12	11	3.95	2	6	12	690	1,030	200
SB03-11-12-22	11	3.95	2	12	22	3,430	1,490	190
SB03-12-0-6	12	4.05	2	0	6	860	7,910	160
SB03-12-6-12	12	4.05	2	6	12	306	3,170	140
SB03-12-12-25	12	4.05	2	12	25	ND (39)	160	30
SB03-13-0-6	13	4.1	2	0	6	1,120	3,220	180
SB03-13-6-12	13	4.1	2	6	12	ND (41)	21,230	260

**Table 3.4**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - Summary of Total PCB, Total PAH, and Total Lead Data**

Sediment Sample ID	Sample Location	River Mile	River Reach	Top Depth (in)	Bottom Depth (in)	Total PCB Concentration (µg/kg-dry)	Total PAH Concentration (µg/kg-dry)	Total Lead Concentration (mg/kg dry)
SB03-13-12-28	13	4.1	2	12	28	ND (44)	5,470	420
SB03-13-12-28(DUP)	13	4.1	2	12	28(DUP)	ND (43)	3,900	370
SB03-14-0-6	14	4.16	2	0	6	ND (26)	ND (13)	16
SB03-14-6-12	14	4.16	2	6	12	ND (26)	ND (13)	11
SB03-14-12-24	14	4.16	2	12	24	ND (24)	ND (12)	7.4
SB03-14-24-36	14	4.16	2	24	36	ND (23)	ND (12)	3.5 J
SB03-14-36-48	14	4.16	2	36	48	ND (25)	ND (12)	11
SB03-14-48-60	14	4.16	2	48	60	ND (25)	ND (13)	10
SB03-15	15	NO CORE COLLECTED - NO SEDIMENT PRESENT						
SB03-16-0-6	16	4.16	2	0	6	700	2,750	270
SB03-16-6-12	16	4.16	2	6	12	ND (43)	31,750	390
SB03-16-12-24	16	4.16	2	12	24	ND (41)	8,590	220
SB03-16-24-36	16	4.16	2	24	36	ND (36)	ND (18)	110
SB03-16-36-48	16	4.16	2	36	48	ND (28)	ND (14)	15
SB03-16-48-60	16	4.16	2	48	60	ND (29)	ND (14)	12
SB03-16-60-77	16	4.16	2	60	77	ND (26)	ND (13)	9.5
SB03-17-0-6	17	4.35	2	0	6	332	7,310	190
SB03-17-6-12	17	4.35	2	6	12	570	2,115	180
SB03-17-12-24	17	4.35	2	12	24	670	7,870	160
SB03-17-24-36	17	4.35	2	24	36	1,140	4,980	200
SB03-17-36-48	17	4.35	2	36	48	1,230	3,720	270
SB03-17-48-60	17	4.35	2	48	60	2,410	1,570	260
SB03-17-60-72	17	4.35	2	60	72	12,100	710	290
SB03-17-72-84	17	4.35	2	72	84	9,700	1,500	260
SB03-17-84-96	17	4.35	2	84	96	440	4,050	260
SB03-17-96-108	17	4.35	2	96	108	510	4,540	190
SB03-17-108-117	17	4.35	2	108	117	ND (28)	ND (14)	8.5
SB03-18-0-6	18	4.35	2	0	6	1,300	ND (17)	120
SB03-18-6-12	18	4.35	2	6	12	3,500	5,180	170
SB03-18-12-24	18	4.35	2	12	24	1,090	7,110	230
SB03-18-24-36	18	4.35	2	24	36	4,770	4,260	230
SB03-18-36-48	18	4.35	2	36	48	6,600	2,230	230
SB03-18-48-60	18	4.35	2	48	60	14,740	800	250
SB03-18-60-72	18	4.35	2	60	72	16,700	2,150	260
SB03-18-72-84	18	4.35	2	72	84	12,900	640	210
SB03-18-84-96	18	4.35	2	84	96	370	730	270
SB03-18-96-108	18	4.35	2	96	108	280	2,870	210
SB03-18-108-115	18	4.35	2	108	115	ND (26)	ND (13)	7.7
SB03-19-0-6	19	4.35	2	0	6	ND (36)	1,190	280
SB03-19-6-12	19	4.35	2	6	12	ND (42)	ND (21)	26
SB03-19-12-24	19	4.35	2	12	24	ND (50)	ND (24)	7.6 J
SB03-19-24-36	19	4.35	2	24	36	ND (44)	ND (23)	6.7 J
SB03-19-36-48	19	4.35	2	36	48	ND (38)	ND (19)	5.7 J
SB03-19-48-60	19	4.35	2	48	60	ND (34)	ND (17)	5.6 J
SB03-19-60-72	19	4.35	2	60	72	ND (27)	ND (13)	2.9 J
SB03-19-72-96	19	4.35	2	72	96	ND (31)	ND (15)	4.9 J
SB03-19-96-111	19	4.35	2	96	111	ND (30)	ND (14)	4.5 J
SB03-20-0-6	20	4.45	2	0	6	840	880	110

**Table 3.4**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - Summary of Total PCB, Total PAH, and Total Lead Data**

Sediment Sample ID	Sample Location	River Mile	River Reach	Top Depth (in)	Bottom Depth (in)	Total PCB Concentration (µg/kg-dry)	Total PAH Concentration (µg/kg-dry)	Total Lead Concentration (mg/kg dry)
SB03-20-6-12	20	4.45	2	6	12	660	ND (16)	220
SB03-20-12-24	20	4.45	2	12	24	2,530	7,560	210
SB03-20-24-36	20	4.45	2	24	36	1,960	1,770	210
SB03-20-36-48	20	4.45	2	36	48	2,400	ND (18)	250
SB03-20-48-60	20	4.45	2	48	60	1,210	850	380
SB03-20-60-72	20	4.45	2	60	72	45,800	720	270
SB03-20-72-84	20	4.45	2	72	84	970	16,950	300
SB03-20-84-96	20	4.45	2	84	96	1,760	6,890	470
SB03-20-96-110	20	4.45	2	96	110	ND (32)	ND (16)	130
SB03-21	21	NO CORE COLLECTED - NO SEDIMENT PRESENT						
SB03-22-0-6	22	4.45	2	0	6	860	367	100
SB03-22-6-12	22	4.45	2	6	12	760	2,240	230
SB03-22-12-24	22	4.45	2	12	24	171	23,240	160
SB03-22-24-36	22	4.45	2	24	36	ND (27)	ND (13)	22
SB03-22-36-48	22	4.45	2	36	48	ND (26)	ND (14)	12
SB03-22-48-60	22	4.45	2	48	60	ND (25)	ND (13)	12
SB03-22-60-84	22	4.45	2	60	84	ND (24)	ND (11)	6.5
SB03-22-84-119	22	4.45	2	84	119	ND (24)	ND (12)	7.4
SB03-23-0-6	23	4.6	2	0	6	450	1,000	160
SB03-23-6-12	23	4.6	2	6	12	1,090	170	160
SB03-23-12-24	23	4.6	2	12	24	2,600	170	200
SB03-23-24-36	23	4.6	2	24	36	91,000	170	300
SB03-23-36-48	23	4.6	2	36	48	430	170	270
SB03-23-48-60	23	4.6	2	48	60	ND (25)	ND (13)	12
SB03-23-60-72	23	4.6	2	60	72	ND (26)	ND (13)	10
SB03-23-72-84	23	4.6	2	72	84	ND (24)	ND (12)	8.1
SB03-23-84-96	23	4.6	2	84	96	ND (24)	ND (12)	5.3 J
SB03-23-96-108	23	4.6	2	96	108	ND (24)	ND (12)	4.8 J
SB03-23-108-119	23	4.6	2	108	119	ND (24)	ND (12)	6.2
SB03-24-0-6	24	4.6	2	0	6	2,130	160	270
SB03-24-6-12	24	4.6	2	6	12	6,410	490	280
SB03-24-12-24	24	4.6	2	12	24	13,700	1,050	250
SB03-24-24-36	24	4.6	2	24	36	2,270	480	290
SB03-24-24-36(DUP)	24	4.6	2	24	36(DUP)	1,950	200	250
SB03-24-36-48	24	4.6	2	36	48	520	190	270
SB03-24-48-60	24	4.6	2	48	60	680	ND (15)	56
SB03-24-60-72	24	4.6	2	60	72	ND (29)	ND (15)	6.2 J
SB03-24-72-84	24	4.6	2	72	84	ND (27)	ND (14)	5.3 J
SB03-24-84-96	24	4.6	2	84	96	ND (25)	ND (13)	5.6 J
SB03-24-96-105	24	4.6	2	96	105	ND (U)	ND (12)	5.3 J
SB03-25-0-6	25	4.6	2	0	6	1,230	3,060	120
SB03-25-6-12	25	4.6	2	6	12	730	1,160	170
SB03-25-12-24	25	4.6	2	12	24	2,220	1,650	220
SB03-25-24-36	25	4.6	2	24	36	3,880	2,510	230
SB03-25-36-48	25	4.6	2	36	48	26,800	1,150	250
SB03-25-36-48(DUP)	25	4.6	2	36	48(DUP)	16,600	1,240	230
SB03-25-48-60	25	4.6	2	48	60	1,200	970	240
SB03-25-60-72	25	4.6	2	60	72	1,160	420	340

**Table 3.4**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - Summary of Total PCB, Total PAH, and Total Lead Data**

Sediment Sample ID	Sample Location	River Mile	River Reach	Top Depth (in)	Bottom Depth (in)	Total PCB Concentration (µg/kg-dry)	Total PAH Concentration (µg/kg-dry)	Total Lead Concentration (mg/kg dry)
SB03-25-72-84	25	4.6	2	72	84	470	840	77
SB03-25-84-96	25	4.6	2	84	96	ND (U)	ND (14)	49
SB03-25-96-111	25	4.6	2	96	111	ND (U)	ND (12)	4 J
SB03-26-0-6	26	4.75	2	0	6	2,100	10,460	270
SB03-26-6-12	26	4.75	2	6	12	1,520	12,910	370
SB03-26-12-24	26	4.75	2	12	24	950	16,440	330
SB03-26-24-36	26	4.75	2	24	36	ND (26)	110	25
SB03-26-36-48	26	4.75	2	36	48	ND (24)	21,080	10
SB03-26-48-65	26	4.75	2	48	65	ND (24)	ND (12)	9.6
SB03-27	27	NO CORE COLLECTED - NO SEDIMENT PRESENT						
SB03-28-0-6	28	4.75	2	0	6	3,100	24,900	100
SB03-28-6-12	28	4.75	2	6	12	ND (31)	1,080	120
SB03-28-12-24	28	4.75	2	12	24	3,690	2,180	120
SB03-28-24-36	28	4.75	2	24	36	1,810	6,910	220
SB03-28-36-48	28	4.75	2	36	48	14,300	5,200	290
SB03-28-48-60	28	4.75	2	48	60	9,600	880	250
SB03-28-60-72	28	4.75	2	60	72	24,400	1,080	270
SB03-28-72-84	28	4.75	2	72	84	36,600	2,220	250
SB03-28-84-96	28	4.75	2	84	96	3,500	12,620	260
SB03-28-96-111	28	4.75	2	96	111	390	840	170
SB03-29-0-6	29	4.8	2	0	6	ND (41)	4,520	300
SB03-29-6-12	29	4.8	2	6	12	ND (38)	590	160
SB03-29-12-24	29	4.8	2	12	24	ND (41)	ND (21)	61
SB03-29-24-36	29	4.8	2	24	36	ND (46)	ND (23)	7.4 J
SB03-29-36-48	29	4.8	2	36	48	ND (29)	ND (14)	3.6 J
SB03-29-48-72	29	4.8	2	48	72	ND (28)	ND (14)	3.6 J
SB03-29-72-94	29	4.8	2	72	94	ND (25)	ND (13)	2.1 J
SB03-30-0-6	30	4.8	2	0	6	630	4,040	170
SB03-30-6-12	30	4.8	2	6	12	1,530	14,500	130
SB03-30-12-24	30	4.8	2	12	24	3,810	3,300	210
SB03-30-24-36	30	4.8	2	24	36	9,400	1,387	210
SB03-30-36-48	30	4.8	2	36	48	19,800	1,770	260
SB03-30-48-60	30	4.8	2	48	60	40,900	3,660	320
SB03-30-60-72	30	4.8	2	60	72	580	4,027	260
SB03-30-72-84	30	4.8	2	72	84	800	9,050	280
SB03-30-84-110	30	4.8	2	84	110	ND (26)	ND (13)	5.5 J
SB03-31-0-6	31	4.8	2	0	6	4,500	13,190	110
SB03-31-6-12	31	4.8	2	6	12	1,700	2,948	110
SB03-31-12-24	31	4.8	2	12	24	1,410	3,740	170
SB03-31-24-36	31	4.8	2	24	36	4,250	3,120	210
SB03-31-36-48	31	4.8	2	36	48	16,100	840	260
SB03-31-48-60	31	4.8	2	48	60	21,200	1,940	290
SB03-31-60-72	31	4.8	2	60	72	64,400	10,640	270
SB03-31-72-84	31	4.8	2	72	84	5,800	5,680	260
SB03-31-84-96	31	4.8	2	84	96	ND (34)	4,030	260
SB03-31-96-112	31	4.8	2	96	112	640	222	60
SB03-32-0-6	32	5.45	3	0	6	44,300	9,100	170
SB03-32-6-12	32	5.45	3	6	12	42,100	6,500	150

**Table 3.4**

Toledo Metropolitan Area Council of Governments  
Lucas County, Ohio  
Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - Summary of Total PCB, Total PAH, and Total Lead Data**

<b>Sediment Sample ID</b>	<b>Sample Location</b>	<b>River Mile</b>	<b>River Reach</b>	<b>Top Depth (in)</b>	<b>Bottom Depth (in)</b>	<b>Total PCB Concentration (µg/kg-dry)</b>	<b>Total PAH Concentration (µg/kg-dry)</b>	<b>Total Lead Concentration (mg/kg dry)</b>
SB03-32-12-24	32	5.45	3	12	24	800	11,320	300
SB03-32-24-36	32	5.45	3	24	36	170	2,370	82
SB03-33-0-6	33	5.52	3	0	6	7,200	18,570	86
SB03-33-6-12	33	5.52	3	6	12	22,600	11,300	130

**Table 3.4**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - Summary of Total PCB, Total PAH, and Total Lead Data**

Sediment Sample ID	Sample Location	River Mile	River Reach	Top Depth (in)	Bottom Depth (in)	Total PCB Concentration (µg/kg-dry)	Total PAH Concentration (µg/kg-dry)	Total Lead Concentration (mg/kg dry)
SB03-33-12-24	33	5.52	3	12	24	8,200	13,600	160
SB03-33-24-36	33	5.52	3	24	36	4,050	86,132	84
SB03-34-0-6	34	5.6	3	0	6	1,400	150	180
SB03-34-6-12	34	5.6	3	6	12	440	14,350	320
SB03-34-12-24	34	5.6	3	12	24	110	110	60
SB03-34-24-36	34	5.6	3	24	36	ND (29)	130	6.5 J
SB03-35-0-6	35	5.65	3	0	6	1,520	13,480	84
SB03-35-6-12	35	5.65	3	6	12	1,770	6,910	120
SB03-35-12-24	35	5.65	3	12	24	13,400	500	130
SB03-35-24-36	35	5.65	3	24	36	ND (41)	ND (20)	11 J
SB03-36-0-6	36	5.65	3	0	6	ND (27)	16,420	220
SB03-36-6-12	36	5.65	3	6	12	ND (31)	150	35
SB03-36-12-24	36	5.65	3	12	24	ND (31)	1,410	8.6
SB03-36-24-36	36	5.65	3	24	36	ND (26)	ND (13)	8.7
SB03-37-0-6	37	5.72	3	0	6	42,700	12,920	110
SB03-37-6-12	37	5.72	3	6	12	28,800	7,120	140
SB03-37-12-24	37	5.72	3	12	24	88,700	8,530	290
SB03-37-24-36	37	5.72	3	24	36	4,080	16,170	180
SB03-37-24-36(DUP)	37	5.72	3	24	36(DUP)	3,430	45,190	530
SB03-37-36-48	37	5.72	3	36	48	310		
SB03-37-48-62	37	5.72	3	48	62	310		
SB03-38-0-6	38	5.78	3	0	6	ND (23)	491	5.6
SB03-38-6-12	38	5.78	3	6	12	ND (25)	ND (12)	6.2
SB03-38-12-24	38	5.78	3	12	24	ND (25)	ND (12)	6.9
SB03-38-24-36	38	5.78	3	24	36	ND (25)	ND (12)	6.6
SB03-39-0-6	39	5.98	3	0	6	770	1,170	370
SB03-39-6-12	39	5.98	3	6	12	560	170	320
SB03-39-12-24	39	5.98	3	12	24	ND (33)	ND (17)	18
SB03-39-24-36	39	5.98	3	24	36	ND (30)	ND (15)	22
SB03-39-24-36(DUP)	39	5.98	3	24	36(DUP)	ND (30)	ND (16)	18
SB03-40-0-6	40	6.3	3	0	6	ND (27)	ND (14)	10
SB03-40-6-12	40	6.3	3	6	12	ND (26)	ND (13)	11
SB03-40-12-24	40	6.3	3	12	24	ND (26)	ND (13)	12
SB03-40-24-36	40	6.3	3	24	36	ND (26)	ND (13)	11
SB03-41-0-6	41	6.4	3	0	6	44,200	9,070	350
SB03-41-6-12	41	6.4	3	6	12	5,900	27,670	290
SB03-41-12-24	41	6.4	3	12	24	180	7,103	58
SB03-41-24-42	41	6.4	3	24	42	ND (24)	1,359	13
SB03-42-0-6	42	6.5	3	0	6	1,630	15,690	610
SB03-42-6-12	42	6.5	3	6	12	12,500	16,660	370
SB03-42-12-24	42	6.5	3	12	24	3,700	6,980	310
SB03-42-24-36	42	6.5	3	24	36	2,600	9,120	340
SB03-42-36-52	42	6.5	3	36	52	ND (25)		

**Table 3.4**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - Summary of Total PCB, Total PAH, and Total Lead Data**

Sediment Sample ID	Sample Location	River Mile	River Reach	Top Depth (in)	Bottom Depth (in)	Total PCB Concentration (µg/kg-dry)	Total PAH Concentration (µg/kg-dry)	Total Lead Concentration (mg/kg dry)
SB03-43-0-9	43	6.56	4	0	9	396	110	27
SB03-43-9-16	43	6.56	4	9	16	ND (23)	ND (12)	8
SB03-43-16-28	43	6.56	4	16	28	ND (23)	ND (12)	8.3
SB03-43-28-41	43	6.56	4	28	41	ND (24)	ND (12)	7.5
SB03-44-0-6	44	6.62	4	0	6	2,300	160	220
SB03-44-6-14	44	6.62	4	6	14	67	2,120	380
SB03-44-14-26	44	6.62	4	14	26	ND (23)	ND (11)	8.7
SB03-44-26-34	44	6.62	4	26	34	ND (23)	ND (12)	8.5
SB03-45-0-6	45	6.74	4	0	6	262	ND (13)	14
SB03-45-6-12	45	6.74	4	6	12	ND (27)	ND (13)	14
SB03-45-12-24	45	6.74	4	12	24	ND (25)	ND (12)	8.5
SB03-45-24-36	45	6.74	4	24	36	ND (25)	ND (12)	7.6
SB03-46-0-6	46	7.25	4	0	6	160	5,790	85
SB03-46-6-12	46	7.25	4	6	12	240	1,680	300
SB03-46-12-24	46	7.25	4	12	24	2,130	18,110	180
SB03-47-0-6	47	7.5	4	0	6	84	2,440	200
SB03-47-6-12	47	7.5	4	6	12	409	1,600	270
SB03-47-12-24	47	7.5	4	12	24	2,770	7,540	230
SB03-48-0-13	48	7.76	4	0	13	190	3,700	110
SB03-49-0-6	49	8.1	4	0	6	79	3,290	44
SB03-50	50	NO CORE COLLECTED - NO SEDIMENT PRESENT						
SB03-51-0-6	51	8.35	4	0	6	ND (35)	4,070	38
SB03-52-0-6	52	8.52	4	0	6	250	6,010	13
SB03-54-12-24	54	7.25	4	12	24	380	14,150	190
SB03-53A-0-6	53A	5.9	3	0	6	385,500	29,610	680
SB03-53A-6-12	53A	5.9	3	6	12	122,400	8,280	400
SB03-53A-12-24	53A	5.9	3	12	24	1,142,000	1,160	480
SB03-53A-24-36	53A	5.9	3	24	36	710,000	11,570	400
SB03-53A-36-48	53A	5.9	3	36	48	1,190		
SB03-53A-48-56	53A	5.9	3	48	56	1,710		
SB03-54A-0-6	54A	5.86	3	0	6	150	ND (13)	13
SB03-54A-6-12	54A	5.86	3	6	12	ND (25)	ND (13)	15
SB03-54A-12-24	54A	5.86	3	12	24	ND (26)	ND (13)	15
SB03-54A-24-36	54A	5.86	3	24	36	ND (24)	ND (12)	14
SB03-55A-0-6	55A	5.82	3	0	6	ND (31)	6,060	320
SB03-55A-6-12	55A	5.82	3	6	12	ND (32)	ND (16)	34
SB03-55A-12-24(DUP)	55A	5.82	3	12	24(DUP)	ND (34)	ND (17)	13
SB03-55A-12-24	55A	5.82	3	12	24	ND (35)	ND (18)	18
SB03-55A-24-36	55A	5.82	3	24	36	75	ND (13)	7.1

**Notes:**

1. Shaded cells indicate that no analysis was conducted for the given depth.
2. Total PCB concentrations were computed by summing Aroclor results. ND results treated as zero in the sum.
3. Total PAH concentrations were computed by summing individual component results. ND results treated as zero in the sum.
4. J = Estimated value. Lead was detected in all samples.
5. DUP = duplicate field or analytical sample.

**Table 3.4**

Toledo Metropolitan Area Council of Governments  
Lucas County, Ohio  
Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - Summary of Total PCB, Total PAH, and Total Lead Data**

<b>Sediment Sample ID</b>	<b>Sample Location</b>	<b>River Mile</b>	<b>River Reach</b>	<b>Top Depth (in)</b>	<b>Bottom Depth (in)</b>	<b>Total PCB Concentration (µg/kg-dry)</b>	<b>Total PAH Concentration (µg/kg-dry)</b>	<b>Total Lead Concentration (mg/kg dry)</b>
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6. Sediment Sample ID: First portion after the "SB03" designation identifies core location, and last two numbers signify depth discrete interval, e.g., "0-6" indicates 0 to 6 inch interval.

**Table 3.5**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**Summary Statistics by Reach for Total PCB, Total Lead, and Total PAH Data for All Samples**

River Mile	2003 Sediment Data			
	Reach 1	Reach 2	Reach 3	Reach 4
	0-3.2	3.2-4.9	4.9-6.5	6.5-8.8
Parameter				
<b>Total PCBs (mg/kg dry)</b>				
Total Number of Results	24	163	64	23
Average Concentration	0.67	4.04	43	0.43
Maximum Concentration	1.9	91	1,142	2.77
Minimum Concentration	ND	ND	ND	ND
Number of Detections	15	98	38	14
Detection Frequency	63%	60%	59%	61%
Standard Deviation	0.66	10.9	172.3	0.80
<b>Total Lead (mg/kg dry)</b>				
Total Number of Results	23	164	59	23
Average Concentration	95.1	158.6	143.0	103.1
Maximum Concentration	170	470	680	380
Minimum Concentration	9.0	2.0	6.0	8.0
Number of Detections	24	164	59	23
Detection Frequency	100%	100%	100%	100%
Standard Deviation	55.6	115.9	170.9	116.2
<b>Total PAHs (mg/kg dry)</b>				
Total Number of Results	24	163	59	23
Average Concentration	0.98	3.21	7.11	3.08
Maximum Concentration	7.48	31.8	86.1	18.1
Minimum Concentration	ND	ND	ND	ND
Number of Detections	5	107	39	14
Detection Frequency	21%	66%	66%	61%
Standard Deviation	2.31	5.37	13.26	4.74

**Notes:**

1. River reaches are designated as follows: Reach 1 = River Mile (RM) 0 to 3.2;  
 Reach 2 = RM 3.2 to 4.9; Reach 3 = RM 4.9 to 6.5; Reach 4 = RM 6.5 to 8.8.
2. Non-detect (ND) values were designated as one half the detection limit for statistical calculations.
3. Duplicates are included in all calculations.

**Table 3.6**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**Summary Statistics by Reach for Total PCB, Total Lead, and Total PAH Data for Surface Samples**

River Mile	2003 Data			
	Reach 1	Reach 2	Reach 3	Reach 4
	0-3.2	3.2-4.9	4.9-6.5	6.5-8.8
Parameter				
<b>Total PCBs (mg/kg dry)</b>				
Total Number of Results	6	22	14	9
Average Concentration	1.49	1.43	37.8	0.42
Maximum Concentration	1.9	5.4	385.5	2.3
Minimum Concentration	0.61	0.01	0.01	0.02
Number of Detections	6	18	10	8
Detection Frequency	100%	82%	71%	89%
Standard Deviation	0.49	1.46	101.67	0.72
<b>Total Lead (mg/kg dry)</b>				
Total Number of Results	6	22	14	9
Average Concentration	117.3	164.4	229.2	83.4
Maximum Concentration	150	300	680	220
Minimum Concentration	94	16	5.6	13
Number of Detections	6	22	14	9
Detection Frequency	100%	100%	100%	100%
Standard Deviation	19.66	73.65	214.38	78.69
<b>Total PAHs (mg/kg dry)</b>				
Total Number of Results	6	22	14	9
Average Concentration	2.82	5.03	9.48	2.84
Maximum Concentration	7.5	24.9	29.6	6.0
Minimum Concentration	ND	ND	ND	ND
Number of Detections	4	18	12	8
Detection Frequency	67%	82%	86%	89%
Standard Deviation	3.37	6.25	8.90	2.35

**Notes:**

1. River reaches are designated as follows: Reach 1 = River Mile (RM) 0 to 3.2;  
 Reach 2 = RM 3.2 to 4.9; Reach 3 = RM 4.9 to 6.5; Reach 4 = RM 6.5 to 8.8.
2. Non-detect values were designated as one half the detection limit for statistical calculations
3. Duplicates are included in all calculations.

**Table 3.7**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - Particle Size Distribution Results**

Sediment Sample ID	Lab Sample ID No.	% Gravel		% Sand			% Fines		% Fines	% Sand	% Gravel
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	Sum	Sum	Sum
SB03-01-0-6	03-383	--	--	--	0.1	1.1	60.3	38.5	98.8	1.2	--
SB03-02-0-6	03-384	--	--	--	0.3	3.6	61.7	34.4	96.1	3.9	--
SB03-03-0-6	03-385	--	--	--	0.2	0.7	64	35.1	99.1	0.9	--
SB03-03-18-36	03-386	--	--	--	0.5	4.5	62	33	95	5	--
SB03-03-36-48	03-387	--	--	--	1.3	20.9	62.3	15.5	77.8	22.2	--
SB03-03-48-56	03-388	--	--	0.1	4.7	50.7	29.7	14.8	44.5	55.5	--
SB03-03-56-96	03-389	--	0.1	0.2	15.5	70.4	8.9	4.9	13.8	86.1	0.1
SB03-03-96-120	03-390	--	0.2	--	0.5	3.4	68	27.9	95.9	3.9	0.2
SB03-04-0-6	03-391	--	--	--	0.2	1.9	65	32.9	97.9	2.1	--
SB03-05-0-6	03-392	--	--	--	0.4	9.3	67.5	22.8	90.3	9.7	--
SB03-06-0-6	03-393	--	--	--	0.4	9.3	66.8	23.5	90.3	9.7	--
SB03-07	03-398	--	--	0.1	1.5	35.7	59.5	13.2	72.7	37.3	--
SB03-08	03-399	--	0.1	0.1	1.1	14.1	63.7	20.9	84.6	15.3	0.1
SB03-09	03-400	--	--	--	0.3	3.2	72.4	24.1	96.5	3.5	--
SB03-10	03-401	--	--	0.4	1.3	25.5	55.5	17.3	72.8	27.2	--
SB03-11	03-402	--	0.1	--	0.7	15	68.8	15.4	84.2	15.7	0.1
SB03-12	03-403	--	--	0.1	1.3	42.1	49.7	6.8	56.5	43.5	--
SB03-13	03-404	--	--	0.1	1.5	12.7	69.6	16.1	85.7	14.3	--
SB03-14	03-414	--	0.2	2.5	5.8	35.2	41.4	14.9	56.3	43.5	0.2
SB03-15		NO CORE COLLECTED - NO SEDIMENT PRESENT									
SB03-16	03-416	--	0.1	0.1	1.1	11.8	69.4	17.5	86.9	13	0.1
SB03-17	03-413	--	0.5	1	2.7	45	42	8.8	50.8	48.7	0.5
SB03-18	03-415	--	0.2	0.5	1.9	58.3	29.6	9.5	39.1	60.7	0.2
SB03-19	03-417	--	0.2	0.5	6.2	80.9	8.5	3.7	12.2	87.6	0.2
SB03-20-0-6	03-438	--	--	0.1	0.6	22	68.2	9.1	77.3	22.7	--
SB03-21		NO CORE COLLECTED - NO SEDIMENT PRESENT									
SB03-22	03-418	--	0.1	0.1	0.9	42.1	47.3	9.5	56.8	43.1	0.1
SB03-23	03-419	--	0.2	0.3	1.6	59.2	31.6	7.1	38.7	61.1	0.2
SB03-23-0-6	03-442	--	--	0.1	0.9	27.1	62.5	9.4	71.9	28.1	--
SB03-23-3-14	03-448	--	--	0.1	0.6	17.8	67.8	13.7	81.5	18.5	--
SB03-23-14-48	03-449	--	--	0.7	0.5	7	68.3	23.5	91.8	8.2	--
SB03-23-48-78	03-450	--	--	--	0.1	5.8	68.9	25.2	94.1	5.9	--

**Table 3.7**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - Particle Size Distribution Results**

Sediment Sample ID	Lab Sample ID No.	% Gravel		% Sand			% Fines		% Fines	% Sand	% Gravel
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	Sum	Sum	Sum
SB03-23-78-92	03-451	--	--	--	0.3	10.8	79.1	9.8	88.9	11.1	--
SB03-23-92-111	03-452	--	--	--	3.7	58.7	30.7	6.9	37.6	62.4	--
SB03-23-111-119	03-453	--	--	0.1	2.1	33.8	53.2	10.8	64	36	--
SB03-24-0-6	03-441	--	0.1	3.1	0.5	11.6	65.6	19.1	84.7	15.2	0.1
SB03-25-0-6	03-443	--	0.3	0.8	2.5	33.2	52.2	11	63.2	36.5	0.3
SB03-26-0-6	03-437	--	0.1	0.7	1.2	21.9	62.3	13.8	76.1	23.8	0.1
SB03-27	NO CORE COLLECTED - NO SEDIMENT PRESENT										
SB03-28-0-6	03-439	--	--	0.1	2.1	72.7	22.2	2.9	25.1	74.9	--
SB03-29-0-6	03-446	--	0.3	0.4	0.8	42	46.4	10.1	56.5	43.2	0.3
SB03-30-0-6	03-447	--	3.6	4	17.8	51.5	17.6	5.5	23.1	73.3	3.6
SB03-31-0-6	03-440	--	0.2	0.6	2.2	67.3	24	5.7	29.7	70.1	0.2
SB03-32	03-424	--	--	0.1	0.9	51.5	39.5	8	47.5	52.5	--
SB03-34	03-422	--	0.9	2.9	12.1	73.2	7.8	3.1	10.9	88.2	0.9
SB03-35	03-423	--	0.2	0.4	2.8	50.3	39	7.3	46.3	53.5	0.2
SB03-36	03-425	--	0.8	0.9	3.5	78.8	13.5	2.5	16	83.2	0.8
SB03-37-0-6	03-426	--	0.8	0.6	2	68.7	25	2.9	27.9	71.3	0.8
SB03-37-13-22	03-430	--	0.9	4.6	3.2	28.3	46.8	16.2	63	36.1	0.9
SB03-37-0-13	03-431	--	1.4	0.7	3.5	47.7	36.9	9.8	46.7	51.9	1.4
SB03-37-48-62	03-432	--	0.8	2.3	11.8	40.7	35.5	8.9	44.4	54.8	0.8
SB03-37-22-48	03-433	--	7.9	12	26.8	45.4	7	0.9	7.9	84.2	7.9
SB03-37-90-93	03-434	--	0.2	1.7	15.9	45.4	29.4	7.4	36.8	63	0.2
SB03-37-62-78	03-435	--	--	--	0.8	20.8	68.9	9.5	78.4	21.6	--
SB03-37-78-90	03-436	--	3.3	7.2	28.5	39	17.5	4.5	22	74.7	3.3
SB03-38-0-6	03-427	--	1.5	1.1	2	51.3	38.3	5.8	44.1	54.4	1.5
SB03-39-0-6	03-410	--	0.1	0.5	2.9	27.2	56.7	12.6	69.3	30.6	0.1
SB03-40-0-6	03-411	--	4.9	3.6	9.6	41.7	28.5	11.7	40.2	54.9	4.9
SB03-41	03-420	--	0.3	0.6	2.4	84.9	8.7	3.1	11.8	87.9	0.3
SB03-42	03-421	--	1.4	2.1	12.9	72.4	3.5	7.7	11.2	87.4	1.4
SB03-43-0-6	03-444	--	5.2	3.8	9.6	14.2	42.4	24.8	67.2	27.6	5.2
SB03-44-0-6	03-429	--	0.9	0.4	2.2	90.7	3.2	2.6	5.8	93.3	0.9
SB03-45-0-6	03-428	--	1.3	1.8	9.2	79.6	6.7	1.4	8.1	90.6	1.3
SB03-46-0-6	03-378	--	--	0.3	1.5	64.2	28.1	5.9	34	66	--

**Table 3.7**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program - Particle Size Distribution Results**

Sediment Sample ID	Lab Sample ID No.	% Gravel		% Sand			% Fines		% Fines	% Sand	% Gravel
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	Sum	Sum	Sum
SB03-47-0-6	03-379	--	--	0.2	0.6	68.6	25.6	5	30.6	69.4	--
SB03-48-0-6	03-380	--	1.6	4.6	47.5	39	5.8	1.5	7.3	91.1	1.6
SB03-49-0-6	03-381	--	0.5	0.2	1.8	66.6	23.4	7.5	30.9	68.6	0.5
SB03-50	NO CORE COLLECTED - NO SEDIMENT PRESENT										
SB03-51-0-6	03-382	--	--	0.5	1.3	34.6	47.4	16.2	63.6	36.4	--
SB03-52-0-6	03-445	--	12.3	10.2	23.7	50.7	1.8	1.3	3.1	84.6	12.3
SB03-53A-0-6	03-409	--	6.5	0.9	3	23.4	45.3	20.9	66.2	27.3	6.5
SB03-54-0-6	03-407	50.3	24.9	0.8	1.5	12.2	5.2	5.1	10.3	14.5	75.2
SB03-55A-0-6	03-408	--	--	--	0.1	21.6	61.2	17.1	78.3	21.7	--
SB03-55A-10-29	03-405	--	0.4	0.4	3.9	23	55.5	16.8	72.3	27.3	0.4
SB03-55A-29-54	03-406	18.3	4.9	7	13	22.6	29.4	4.8	34.2	42.6	23.2

**Notes:**

1. Where no depth interval given with Sediment Sample ID, the sample is a surface sediment sample.
2. Sample from the 0 to 6 inch depth interval are referred to as "surface sediments".
3. Sediment Sample ID: First portion after the "SB03" designation identifies core location, and last two numbers signify depth discrete interval, e.g., "0-6" indicates 0 to 6 inch interval.

**Table 3.8**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program -Total Organic Carbon Data**

Sediment Sample ID	Results (%C-dry)	Sediment Sample ID	Results (%C-dry)	Sediment Sample ID	Results (%C-dry)
SB03-01-0-6	2.2	SB03-13-12-28	4	SB03-20-6-12	2.1
SB03-01-6-12	2.1	SB03-13-12-28(DUP)	4.3	SB03-20-12-24	2.5
SB03-01-12-18	2.4	SB03-14-0-6	0.51	SB03-20-24-36	2.2
SB03-01-18-24	2.8	SB03-14-6-12	0.3	SB03-20-36-48	2.7
SB03-02-0-6	2.3	SB03-14-12-24	<0.12	SB03-20-48-60	4
SB03-02-6-12	3	SB03-14-24-36	<0.12	SB03-20-60-72	2.8
SB03-02-12-18	2.7	SB03-14-36-48	0.19	SB03-20-72-84	3.5
SB03-02-18-24	3	SB03-14-48-60	0.23	SB03-20-84-96	5.2
SB03-03-0-6	2	SB03-15	See Note 1	SB03-20-96-110	2.4
SB03-03-6-12	2.1	SB03-16-0-6	3.9	SB03-21	See Note 1
SB03-03-12-18	2.7	SB03-16-6-12	4.5	SB03-22-0-6	1.5
SB03-03-18-24	3.2	SB03-16-12-24	4.3	SB03-22-6-12	2.9
SB03-04-0-6	2.1	SB03-16-24-36	2.3	SB03-22-12-24	3.4
SB03-04-6-12	2.7	SB03-16-36-48	0.39	SB03-22-24-36	0.2
SB03-04-12-18	5.3	SB03-16-48-60	0.78	SB03-22-36-48	0.14
SB03-04-18-24	7.8	SB03-16-60-77	0.24	SB03-22-48-60	0.17
SB03-05-0-6	2.3	SB03-17-0-6	1.6	SB03-22-60-84	0.15
SB03-05-6-12	4.2	SB03-17-6-12	1.2	SB03-22-84-119	0.16
SB03-05-12-18	8.4	SB03-17-12-24	1.7	SB03-23-0-6	1.8
SB03-05-18-24	7.7	SB03-17-24-36	1.8	SB03-23-6-12	1.7
SB03-06-0-6	2	SB03-17-36-48	3.1	SB03-23-12-24	2
SB03-06-6-12	2.1	SB03-17-48-60	2.6	SB03-23-24-36	2.8
SB03-06-12-18	2	SB03-17-60-72	2.4	SB03-23-36-48	3.3
SB03-06-18-24	0.42	SB03-17-72-84	2.8	SB03-23-48-60	0.13
SB03-07-0-6	2	SB03-17-84-96	2.4	SB03-23-60-72	0.077
SB03-07-6-12	3.2	SB03-17-96-108	1.8	SB03-23-72-84	0.2
SB03-07-12-24	4.7	SB03-17-108-117	0.47	SB03-23-84-96	0.17
SB03-07-12-24(DUP)	4.4	SB03-18-0-6	1.8	SB03-23-96-108	0.13
SB03-07-24-36	3.6	SB03-18-6-12	2.1	SB03-23-108-119	0.15
SB03-08-0-6	3.8	SB03-18-12-24	2.2	SB03-24-0-6	2.3
SB03-08-6-12	3.4	SB03-18-24-36	2.2	SB03-24-6-12	2.7
SB03-08-12-24	3	SB03-18-36-48	2.6	SB03-24-12-24	2.6
SB03-08-24-32	4.6	SB03-18-48-60	2.7	SB03-24-24-36	2.2
SB03-09-0-6	2.1	SB03-18-60-72	2.5	SB03-24-24-36(DUP)	2.7
SB03-09-6-12	2.9	SB03-18-72-84	2.6	SB03-24-36-48	2.8
SB03-09-12-24	4.2	SB03-18-84-96	2.7	SB03-24-48-60	1.6
SB03-09-24-32	4.5	SB03-18-96-108	2.7	SB03-24-60-72	1.3
SB03-10-0-6	2.4	SB03-18-108-115	0.78	SB03-24-72-84	1.2
SB03-10-6-12	2.4	SB03-19-0-6	3.3	SB03-24-84-96	0.87
SB03-10-12-18	2.7	SB03-19-6-12	2.9	SB03-24-96-105	0.25
SB03-11-0-6	1.8	SB03-19-12-24	4.6	SB03-25-0-6	2.7
SB03-11-6-12	2.2	SB03-19-24-36	4.5	SB03-25-6-12	3.1
SB03-11-12-22	2.2	SB03-19-36-48	3.9	SB03-25-12-24	2.4
SB03-12-0-6	1.9	SB03-19-48-60	2	SB03-25-24-36	2.7
SB03-12-6-12	1.9	SB03-19-60-72	1.1	SB03-25-36-48	2.4
SB03-12-12-25	2.9	SB03-19-72-96	1.3	SB03-25-36-48(DUP)	2.50
SB03-13-0-6	2.1	SB03-19-96-111	1.5	SB03-25-48-60	3.5
SB03-13-6-12	3.6	SB03-20-0-6	2.1	SB03-25-60-72	3.5
SB03-25-72-84	2.8	SB03-32-6-12	1.70	SB03-43-28-41	1.40
SB03-25-84-96	1.2	SB03-32-12-24	1.50	SB03-44-0-6	1.70
SB03-25-96-111	0.33	SB03-32-24-36	1.60	SB03-44-6-14	2.10

**Table 3.8**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**October 2003 Sediment Sampling Program -Total Organic Carbon Data**

Sediment Sample ID	Results (%C-dry)	Sediment Sample ID	Results (%C-dry)	Sediment Sample ID	Results (%C-dry)
SB03-26-0-6	2.70	SB03-33-0-6	1.00	SB03-44-14-26	0.75
SB03-26-6-12	2.60	SB03-33-6-12	2.20	SB03-44-26-34	0.67
SB03-26-12-24	3.90	SB03-33-12-24	1.60	SB03-45-0-6	0.32
SB03-26-24-36	0.84	SB03-33-24-36	0.32	SB03-45-6-12	0.25
SB03-26-36-48	0.65	SB03-34-0-6	1.30	SB03-45-12-24	0.31
SB03-26-48-65	0.69	SB03-34-6-12	2.90	SB03-45-24-36	0.31
SB03-27	See Note 1	SB03-34-12-24	1.20	SB03-46-0-6	1.70
SB03-28-0-6	3.10	SB03-34-24-36	1.80	SB03-46-6-12	2.20
SB03-28-6-12	1.60	SB03-35-0-6	1.30	SB03-46-12-24	1.40
SB03-28-12-24	1.20	SB03-35-6-12	1.20	SB03-47-0-6	1.40
SB03-28-24-36	1.70	SB03-35-12-24	1.80	SB03-47-6-12	2.10
SB03-28-24-36	1.70	SB03-35-24-36	1.90	SB03-47-12-24	2.10
SB03-28-36-48	2.80	SB03-36-0-6	1.60	SB03-48-0-13	1.60
SB03-28-48-60	3.00	SB03-36-6-12	1.90	SB03-49-0-6	1.20
SB03-28-60-72	3.20	SB03-36-12-24	0.80	SB03-50	See Note 1
SB03-28-72-84	3.10	SB03-36-24-36	0.47	SB03-51-0-6	1.40
SB03-28-84-96	2.50	SB03-37-0-6	1.50	SB03-52-0-6	0.29
SB03-28-96-111	2.20	SB03-37-6-12	1.30	SB03-54-12-24	1.30
SB03-29-0-6	4.70	SB03-37-12-24	2.60	SB03-53A-0-6	3.40
SB03-29-6-12	1.20	SB03-37-24-36	1.60	SB03-53A-6-12	3.30
SB03-29-12-24	4.50	SB03-37-24-36(DUP)	1.50	SB03-53A-12-24	3.40
SB03-29-24-36	5.30	SB03-38-0-6	0.16	SB03-53A-24-36	3.00
SB03-29-36-48	1.20	SB03-38-6-12	0.20	SB03-54A-0-6	0.27
SB03-29-48-72	1.10	SB03-38-12-24	0.27	SB03-54A-6-12	0.18
SB03-29-72-94	0.29	SB03-38-24-36	0.44	SB03-54A-12-24	0.14
SB03-30-0-6	1.80	SB03-39-0-6	3.90	SB03-54A-24-36	0.25
SB03-30-6-12	1.70	SB03-39-6-12	3.40	SB03-55A-0-6	3.50
SB03-30-12-24	2.30	SB03-39-12-24	2.10	SB03-55A-6-12	1.90
SB03-30-24-36	2.50	SB03-39-24-36	1.70	SB03-55A-12-24	2.40
SB03-30-36-48	2.90	SB03-39-24-36(DUP)	1.90	SB03-55A-12-24(DUP)	2.10
SB03-30-48-60	3.60	SB03-40-0-6	0.22	SB03-55A-24-36	0.66
SB03-30-60-72	2.80	SB03-40-6-12	0.39		
SB03-30-72-84	2.10	SB03-40-12-24	0.29		
SB03-30-84-110	0.83	SB03-40-24-36	0.21		
SB03-31-0-6	0.95	SB03-41-0-6	2.70		
SB03-31-6-12	0.81	SB03-41-6-12	2.10		
SB03-31-12-24	1.50	SB03-41-12-24	0.55		
SB03-31-24-36	2.00	SB03-41-24-42	0.30		
SB03-31-36-48	2.70	SB03-42-0-6	0.57		
SB03-31-48-60	2.70	SB03-42-6-12	3.20		
SB03-31-60-72	2.20	SB03-42-12-24	2.00		
SB03-31-72-84	2.60	SB03-42-24-36	2.70		
SB03-31-84-96	2.90	SB03-43-0-9	0.97		
SB03-31-96-112	1.50	SB03-43-9-16	0.79		
SB03-32-0-6	2.30	SB03-43-16-28	0.76		

**Notes:**

1. No core collected because no sediment present.
2. Sediment Sample ID: First portion after the "SB03" designation identifies core location, and last two numbers signify depth discrete interval, e.g., "0-6" indicates 0 to 6 inch interval.
3. DUP = duplicate field or analytical sample.

**Table 3.9**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**Summary Statistics by Reach for Particle Size and Total Organic Carbon Data for All Samples**

River Mile	2003 Sediment Data			
	Reach 1	Reach 2	Reach 3	Reach 4
	0-3.2	3.2-4.9	4.9-6.5	6.5-8.8
<b>Parameter</b>				
<b>% Gravel</b>				
Total Number of Results	11	29	21	10
Arithmetic Mean	0.0	0.2	2.6	9.7
Median	0.0	0.1	0.8	1.1
Maximum	0.2	3.6	23.2	75.2
Minimum	0.0	0.0	0.0	0.0
10th Percentile	0.0	0.0	0.0	0.0
90th Percentile	0.1	0.3	6.5	18.6
Standard Deviation	0.1	0.7	5.2	23.3
<b>% Sand</b>				
Total Number of Results	11	29	21	10
Arithmetic Mean	18.2	36.0	55.7	64.2
Median	5.0	36.0	54.4	69.0
Maximum	86.1	87.6	88.2	93.3
Minimum	0.9	3.5	21.6	14.5
10th Percentile	1.2	10.5	27.3	26.3
90th Percentile	55.5	70.7	87.4	91.3
Standard Deviation	27.6	23.5	22.9	28.5
<b>% Fines</b>				
Total Number of Results	11	29	21	10
Arithmetic Mean	81.8	64.1	41.7	26.1
Median	95.0	71.9	44.1	20.5
Maximum	99.1	96.5	78.4	67.2
Minimum	13.8	12.2	7.9	3.1
10th Percentile	44.5	28.8	11.2	5.5
90th Percentile	98.8	89.5	72.3	64.0
Standard Deviation	27.6	23.8	23.2	23.7
<b>TOC (%C - dry)</b>				
Total Number of Results	24	163	59	23
Arithmetic Mean	3.2	2.2	1.6	1.2
Median	2.6	2.3	1.6	1.3
Maximum	8.4	5.3	3.9	2.2
Minimum	0.4	0.0	0.1	0.3
10th Percentile	2.0	0.3	0.2	0.3
90th Percentile	7.0	3.9	3.2	2.1
Standard Deviation	2.0	1.3	1.1	0.6

**Notes:**

1. River sections are designated as follows: Reach 1 = River Mile (RM) 0 to 3.2;  
 Reach 2 = RM 3.2 to 4.9; Reach 3 = RM 4.9 to 6.5; and Reach 4 = RM 6.5 to 8.8.
2. Non-detect values were designated as zero for statistical calculations.

**Table 3.10**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**Summary Statistics by Reach for Water Depth, Probing Rod Depth, Core Penetration, and % Core Recovery**

River Mile	2003 Sediment Data			
	Reach 1	Reach 2	Reach 3	Reach 4
	0-3.2	3.2-4.9	4.9-6.5	6.5-8.8
<b>Parameter</b>				
<b>Water Depth</b>				
Total Number of Results	6	22	14	7
Arithmetic Mean	1.4	1.6	2.6	2.9
Median	1.4	1.0	1.9	2.3
Maximum	1.7	5.5	9.0	4.6
Minimum	0.9	0.5	0.9	2.0
10th Percentile	1.1	0.6	1.0	2.0
90th Percentile	1.6	3.5	5.3	4.5
Standard Deviation	0.3	1.4	2.3	1.1
<b>Probing Rod Depth</b>				
Total Number of Results	6	22	13	7
Arithmetic Mean	9.4	10.1	5.3	4.1
Median	10.0	12.0	5.0	5.0
Maximum	12.0	12.0	8.0	6.0
Minimum	3.5	3.0	2.5	2.0
10th Percentile	6.3	6.0	3.0	2.0
90th Percentile	12.0	12.0	7.8	5.4
Standard Deviation	3.2	3.1	1.8	1.6
<b>Core Penetration</b>				
Total Number of Results	4	22	14	4
Arithmetic Mean	8.0	7.0	4.9	3.8
Median	7.5	9.3	4.8	3.6
Maximum	12.0	10.0	8.0	5.0
Minimum	5.0	2.4	3.9	3.0
10th Percentile	5.0	2.5	4.1	3.2
90th Percentile	11.4	10.0	5.0	4.6
Standard Deviation	3.6	3.4	1.0	0.9
<b>% Core Recovery</b>				
Total Number of Results	4	22	14	4
Arithmetic Mean	85.4	94.4	96.8	97.9
Median	100	98.2	100	100
Maximum	100	100	100	100
Minimum	41.7	70	70	91.4
10th Percentile	59.2	86.8	94.3	94.0
90th Percentile	100	100	100	100
Standard Deviation	29.2	7.9	8.0	4.3

**Notes:**

1. River sections are designated as follows: Reach 1 = River Mile (RM) 0 to 3.2; Reach 2 = RM 3.2 to 4.9; Reach 3 = RM 4.9 to 6.5; and Reach 4 = RM 6.5 to 8.8.
2. Non-detect values were designated as zero for statistical calculations.

**Table 4.1**

Toledo Metropolitan Area Council of Governments  
 Lucas County, Ohio  
 Ottawa River Sediment Remediation Priorities Project

**PCB MPA Calculation**

Sample ID	Coordinates		River Mile	Reach	Total MPA (g/m <sup>2</sup> )
	Latitude	Longitude			
SB03-01	41.72492904	-83.47246285	1.1	1	0.23
SB03-02	41.72379997	-83.47774077	1.5	1	0.20
SB03-03	41.72294835	-83.48273009	1.8	1	0.36
SB03-04	41.71928377	-83.48466163	2	1	0.28
SB03-05	41.71053799	-83.49512991	3	1	0.26
SB03-06	41.7101315	-83.49746126	3.1	1	0.37
SB03-07	41.71133289	-83.50252386	3.45	2	1.58
SB03-08	41.71113447	-83.50457715	3.52	2	0.30
SB03-09	41.71174423	-83.50433664	3.5	2	0.30
SB03-10	41.70854205	-83.50948547	3.88	2	0.72
SB03-11	41.70746781	-83.51132757	3.95	2	0.96
SB03-12	41.70620901	-83.51404927	4.05	2	0.18
SB03-13	41.70469151	-83.51639514	4.1	2	0.15
SB03-14	41.704476	-83.51791825	4.16	2	0.01
SB03-16	41.70412561	-83.5176589	4.16	2	0.07
SB03-17	41.70328796	-83.52000195	4.35	2	7.88
SB03-18	41.70315158	-83.51985143	4.35	2	16.22
SB03-19	41.70302639	-83.51953232	4.35	2	0.01
SB03-20	41.70286473	-83.52130674	4.45	2	16.11
SB03-22	41.70245961	-83.52103187	4.45	2	0.39
SB03-23	41.70265381	-83.52310334	4.6	2	21.55
SB03-24	41.70246392	-83.52315607	4.6	2	5.27
SB03-25	41.70246392	-83.52315607	4.6	2	9.27
SB03-26	41.70357423	-83.52470103	4.75	2	0.66
SB03-28	41.70335628	-83.52490165	4.75	2	25.53
SB03-29	41.70384213	-83.52611932	4.8	2	0.01
SB03-30	41.70364642	-83.52608566	4.8	2	18.97
SB03-31	41.70350706	-83.52604333	4.8	2	31.58
SB03-32	41.69908367	-83.52979657	5.45	3	11.79
SB03-33	41.6973348	-83.52980393	5.52	3	14.23
SB03-34	41.69636141	-83.53199052	5.6	3	0.31
SB03-35	41.69639877	-83.53310318	5.65	3	4.34
SB03-36	41.69336523	-83.53274681	5.65	3	0.00
SB03-37	41.69424716	-83.53463464	5.72	3	40.11
SB03-38	41.69360238	-83.53522876	5.78	3	0.01
SB03-39	41.69092419	-83.53809444	5.98	3	0.16
SB03-40	41.68992278	-83.54150949	6.3	3	0.01
SB03-41	41.68966364	-83.54264063	6.4	3	6.38
SB03-42	41.68890656	-83.54658373	6.5	3	3.75

**Table 4.1**

Toledo Metropolitan Area Council of Governments  
Lucas County, Ohio  
Ottawa River Sediment Remediation Priorities Project

**PCB MPA Calculation**

Sample ID	Coordinates		River Mile	Reach	Total MPA (g/m <sup>2</sup> )
	Latitude	Longitude			
SB03-43	41.68857632	-83.54796996	6.56	4	0.11
SB03-44	41.68813586	-83.54953084	6.62	4	0.32
SB03-45	41.68770806	-83.55184106	6.74	4	0.06
SB03-46	See Note 3	See Note 3	7.25	4	1.37
SB03-47	See Note 3	See Note 3	7.5	4	1.58
SB03-48	See Note 3	See Note 3	7.76	4	0.06
SB03-49	See Note 3	See Note 3	8.1	4	0.01
SB03-51	See Note 3	See Note 3	8.35	4	0.00
SB03-52	41.676166	-83.5752	8.52	4	0.06
SB03-53A	41.692036	-83.535216	5.9	3	470.60
SB03-54A	41.692461	-83.535041	5.86	3	0.03
SB03-55A	41.693225	-83.535047	5.82	3	0.04

**Notes:**

1. Duplicates not included in MPA calculations.
2. River mile positions were calculated in GIS software based on distance upriver from Lake Erie along an assigned river centerline.
3. Coordinates not available due to lack of satellite signal available during sampling.
4. For samples containing PCB in the bottom most depth interval, an additional one foot interval with the same PCB concentration as the depth interval above it was added for MPA calcs.
5. For surface samples and subsurface samples with ND at all depth intervals, a one foot interval with a concentration equal to one half the detection limit was used for the MPA calculation.

**Table 4.2**

Toledo Metropolitan Area Council of Governments  
Lucas County, Ohio  
Ottawa River Sediment Remediation Priorities Project

**MPA Summary Statistics by Reach**

River Mile	2003 Data			
	Reach 1	Reach 2	Reach 3	Reach 4
	0-3.2	3.2-4.9	4.9-6.5	6.5-8.8
<b>Parameter</b>				
<b>Total MPA (g/m<sup>2</sup>)</b>				
Total Number of Results	6	22	14	9
Average	0.28	7.17	39.4	0.37
Maximum	0.37	31.6	470.6	1.58
Minimum	0.20	0.01	0.005	0.004
Standard Deviation	0.07	9.87	124.6	0.62

**Notes:**

1. Reaches are designated as follows: Reach 1 = River Mile (RM) 0 to 3.2; Reach 2 = RM 3.2 to 4.9; Reach 3 = RM 4.9 to 6.5; and Reach 4 = RM 6.5 to 8.8.
2. Duplicates are not included in all calculations.
3. For samples containing PCB in the bottom most depth interval, an additional one foot interval with the same PCB concentration as the depth interval above it was added.
4. For surface samples and subsurface samples with ND at all depth intervals, a one foot interval with a concentration equal to one half the detection limit was used for the MPA calculation.

Table 7.1

Toledo Metropolitan Area Council of Governments  
Lucas County, Ohio  
Ottawa River Sediment Remediation Priorities Project

**Preliminary Cost Estimate for Removal-Based Remedy for Priority Area 2 (Lagrange Remediation Target Areas)**

ITEM NO.	DESCRIPTION	UNIT	NO. OF UNITS	UNIT COST	ESTIMATED COST
1	Mobilization/Demobilization	LS	1	\$120,000	\$ 120,000
2	Access Area Development	LS	1	\$160,000	\$ 160,000
3	Pre-design Investigation	LS	1	\$110,000	\$ 110,000
4	Survey Control	LS	1	\$40,000	\$ 40,000
5	Silt Curtain System Materials/Installation/Removal/ Additional Silt Curtain Setup	SF	40,000	\$5	\$ 200,000
6	Mechanical Dredging/Dewatering/Stabilization	CY	13,400	\$175	\$ 2,350,000
7	Water Treatment	Gal	536,000	\$0.10	\$ 60,000
8a	TSCA - Transportation and Disposal of Sediments	Ton	1,600	\$110	\$ 180,000
8b	Non-TSCA Transportation and Disposal of Sediments	Ton	16,200	\$47	\$ 770,000
9	Post-Dredge Thin Cap/Backfill	SF	145,000	\$2.75	\$ 400,000
10	Water Quality Monitoring	MO	1	\$10,000	\$ 10,000
11	Post-construction Sampling	LS	1	\$60,000	\$ 60,000
12	Oversight	MO	29	\$18,000	\$ 520,000
13	Engineering and Administration	LS	1	\$150,000	\$ 150,000
Subtotal					\$ 5,130,000
Contingency (25%)					\$ 1,290,000
Total					\$ 6,420,000

All estimated costs are rounded up to the nearest \$10,000.

**Assumptions:**

- a. This preliminary cost estimate assumes that sediments will be removed via mechanical dredge and is based on the area, depth, and PCB concentration information available at this time, as discussed in Section 6. Further sampling and testing is required and may substantially modify these assumptions.
- b. All costs are provided in 2004 dollars and all capital cost expenditures are assumed to occur in 2004.
- c. Work is estimated to take approximately one construction season (i.e., 7 total 30-day months) to complete and it is anticipated that Site dredging may be accomplished using a combination of shore- and barge-based approaches. Mobilization/demobilization for dredging has been estimated at 3% of project subtotal excluding transfer and disposal costs.
- d. One area located near the Former Unnamed Tributary and one area located near Stickney Avenue would be used for Site access purposes. The cost to construct/prepare the access areas in preparation for dredging is exclusive of real estate, permitting, access, legal or other fees, and assumes that the area requires minimal preparation.
- e. Work to be conducted six days per week.
- f. Dredging work would require a single-tier silt curtain held in place by integrated weighting. The unit price provided includes purchase of material and cost to install/remove each setup, and assumes that silt curtain will not be reused.
- g. The production rate for dredging is estimated to be 100 cy/day. Backfill rate is estimated at 200 cy/day. For project duration estimating, it is conservatively assumed that there is no schedule overlap of dredging and backfilling.
- h. It is assumed that materials will be gravity dewatered and mixed with lime or similar stabilization material. No other pretreatment of solids is assumed. The stabilization process will increase the dewatered ex-situ volume by 10%.
- i. Water treatment would consist of particulate and carbon filters, and assume PCBs are the only constituent of concern. Volume for treatment estimated at 40 gal/cy.
- j. Disposal costs assume 1.2 tons/cy and disposal of materials at Detroit- and/or Toledo-area landfill(s).
- k. Construction monitoring/oversight estimated at \$600/day, and excludes monitoring activities other than basic turbidity monitoring.
- l. A contingency allowance can be included to account for unforeseen circumstances or variability in the volumes, labor, or material costs. The contingency typically ranges from 15 to 25% of the remediation costs as recommended by the USEPA (USEPA, 1987 and USEPA, 2000). For purposes of this estimate a value of 25% is considered.
- m. Any long-term monitoring/operation and maintenance program costs are specifically excluded.
- n. Estimated costs do not include property costs (if necessary), access costs, permitting costs, legal fees, and regulatory oversight, and public relations efforts.
- o. Post-dredge thin cap/backfill assumes placing backfill into dredged areas, comprised of either: 1) a target average of four inches of AquaBlok (hydrated) plus an overlying target average of four inches of gravel/sand or 2) a target average eight inches of gravel/sand, depending on residual contamination levels, location, and other factors.