Supplemental Material, Table 1. Serum PCDDs, PCDFs and dioxin-like PCBs Among 16 Persons Who Consumed Beef and/or Vegetables from the Tittabawassee River Flood Plain

Case Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Control[a]	FP Soil[b]
2,3,7,8-TCDD	4.28	0.48	1.42	6.03	13.2	1.58	2.58	3.38	0.69	4.46	1.54	2.24	1.63	1.55	1.74	2.15	1.8	7.9
1,2,3,7,8-PeCDD	12.8	3.59	4.05	12.5	19.1	8.16	4.85	6.01	3.99	8.46	4.94	5.91	3.9	6.82	5.32	5.58	5.5	8.1
1,2,3,4,7,8-HxCDD	12.6	2.21	4.49	2.26	12.2	16	3.96	3.98	2.97	6.29	3.31	6	4.26	4.35	4.3	5.03	5.6	6.2
1,2,3,6,7,8-HxCDD	98.5	27.5	31.9	60.3	92.8	77	31.5	34.5	26.6	57.5	47.2	30.2	24.6	49.7	45.2	35.8	42.7	24.9
1,2,3,7,8,9-HxCDD	11.1	5.2	6.67	5.71	17.4	9.5	5.2	5.88	3.92	9.63	6.92	4.7	4.07	4.11	4.93	6.03	6.9	10.5
1,2,3,4,6,7,8-HpCDD	42.9	26.1	33.9	45.9	83.4	193	50.7	65.9	22.2	40.6	49.4	44.7	14.7	16.5	43.7	75.5	41.2	507
OCDD	335	223	167	281	1040	1020	229	258	150	227	244	211	111	224	276	282	303	4800
2,3,7,8-TCDF	0.35	1.19	0.52	0.54	0.2	2.17	3.64	1.83	0.57	0.3	1.56	1.83	1.4	0.26	0.14	0.67	0.6	659
1,2,3,7,8-PeCDF	0.39	1.96	1	1.61	0.24	1.55	1.63	2.13	0.69	0.5	0.67	2.05	1.01	0.3	0.36	0.32	0.5	324
2,3,4,7,8-PeCDF	42.5	14.7	9.5	21.4	20.1	12.9	8.84	8.42	6.34	7.11	6.72	8.45	6.03	6.29	6.94	5.34	6.0	291
1,2,3,4,7,8-HxCDF	20.5	8.08	7.54	8.29	14	15.6	7.69	8.13	5.64	9.13	7.47	8.06	5.07	4.32	6.28	5.22	6.0	242
1,2,3,6,7,8-HxCDF	15.8	10.2	5.98	8.7	9.86	12.1	7.6	10.4	6.82	9.21	7.26	8.2	5.54	4.18	4.92	4.98	5.9	74.0
1,2,3,7,8,9-HxCDF	0.72	0.66	0.79	0.67	0.46	0.67	0.51	0.28	0.27	0.37	0.32	0.74	0.27	0.58	0.32	0.64	0.9	46.4
2,3,4,6,7,8-HxCDF	0.51	2.03	0.6	0.47	1.75	3.86	3.06	2.39	1.4	0.56	2.08	1.73	1.17	0.45	0.9	1.64	1.0	33.7
1,2,3,4,6,7,8-HpCDF	14.7	7.91	6.72	12	8.84	17.7	7.85	9.58	16.6	6.63	8.23	10.9	5.13	5.32	6.32	0.76	8.4	731
1,2,3,4,7,8,9-HpCDF	0.41	0.75	0.72	1.14	0.47	0.66	0.47	0.69	0.65	0.4	0.27	0.5	0.24	0.5	0.43	0.71	0.9	39.1
OCDF	1.49	1.89	1.87	2.23	1.31	1.32	0.1	0.87	1.03	1.15	0.65	1.09	0.49	1.34	0.98	1.68	2.4	1310
PCB 77	11.2	5	3.24	3.49	5.14	2.11	2.57	2.65	1.05	1.8	1.89	3.78	2.22	2.19	2.49	2.52	4.7	125
PCB 81	3.51	3.15	0.95	2.17	2.97	0.65	2.45	2.38	0.69	1.2	0.85	2.5	2.22	0.65	2.11	1	2.0	8.6
PCB 126	22.5	18.8	21.6	52.7	99.6	19.6	54.1	35.8	8.23	42.6	19.2	33.4	17	7.92	14.1	18.7	29.4	11.7
PCB 169	73.3	15.2	18.6	62.2	52.9	23	20.3	15.1	16.3	19.4	12.4	29.3	12.2	41.7	18.4	15.6	23.2	2.2
PCB 105	3520	2000	2420	6350	13000	1390	3710	2280	1610	4120	1800	2620	1420	999	1940	1490	3110	514
PCB 114	2320	533	911	3160	4930	844	893	795	410	1380	649	865	846	1630	1210	985	1370	33.0
PCB 118	15700	9310	9650	35500	62600	8670	15300	12000	6340	23200	9320	8930	7460	6120	10100	9840	15800	1000
PCB 123	249	150	216	673	1350	139	408	226	83.1	317	150	153	101	70.4	112	189	216	27.4
PCB 156	16900	3710	5420	23400	18700	7310	6140	5510	5790	8090	4010	7750	5480	16800	11500	6390	9790	131
PCB 157	4030	927	1200	5190	4300	1440	1330	1090	1120	1750	792	1670	1170	3590	2330	1350	2210	33.2
PCB 167	3800	1220	1570	5490	6340	1530	1870	1470	678	2310	1010	1260	1110	2000	1790	1520	2060	53.5
PCB 189	2280	410	665	1950	1450	764	587	446	508	451	300	789	308	1360	1240	515	640	15.3
Total TEQ (ppt)	52.4	17.5	18.0	44.0	69.4	33.1	24.0	24.3	13.7	31.0	19.6	22.4	14.8	20.4	19.3	19.2	21.3	239
PCDD Contribution (%)	56.9	45.1	56.5	58.9	65.8	67.1	50.3	59.9	60.6	66.9	65.3	56.9	60.8	70.7	67.5	69.0	62.4	11.2
PCDF Contribution (%)	31.9	38.7	25.0	19.2	12.6	22.8	21.0	20.6	26.0	13.5	20.4	21.3	21.9	14.4	17.7	15.3	15.7	88.3
PCB Contribution (%)	11.3	16.5	18.8	21.8	21.5	10.0	28.9	19.5	13.1	19.6	14.5	22.0	17.6	14.8	14.9	15.7	22.0	0.5

[a]Mean congener concentrations in serum from the control population

[b]Mean congener concentrations in the top one inch of soil from the floodplain (FP)

All serum results are in ppt on a lipid adjusted basis

Supplemental Material, Table 2. Reported Number of Beef and Vegetable Meals Among 16 Persons Who Consumed Beef and/or Vegetables from the Tittabawassee River Flood Plain

Case	Floodplain Beef Consumption			Floodplain Vegetable Consumption		
	Years Consumed	Avg Meals per Year[a]	Approx. Total Beef Meals	Years Consumed	Avg Meals per Year	Approx Total Veg. Meals
1[b]	1985-1996	48-96	792	1982-2008	40	1040
2	1985-1996	144-192	1848	1982-2008	46	1196
3	1985-1996	144-180	1848	1982-2008	6	156
4	1985-1996	104-174	1559	1982-2008	26	676
5	1985-1996	2	22	1997-2008	4	44
6	1985-1996	156-208	2002	1982-1993	46	506
7	1985-1996	144	1584	1982-1997	59	885
8	1985-1996	208	2288	1982-1997	26	390
9	None	0	0	1998-2008	52	520
10	1985-1996	52	572	1982-1997	13	195
11	1985-1996	52	572	1982-1997	33	495
12	1986-1990	96	384	1982-1997	90	1350
13	1990-1996	240-300	1656	1998-2008	91	910
14	1985-1996	52	572	1982-1997	3	45
15	2 yrs	360	720	2000-2006	unsure	-
16	1985-1996	120	1320	1982-2006	6	144

[a]Note that some subjects reported a range, rather than a precise estimate of the average number of meals consumed per year
[b]Index case