

# Dioxin High Volume Water Sampling Results 1997 - 2001

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## Ohio River Mile 4.0

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
8/2/2000	<0.0025	0.0124	0.0137	0.0111	0.222	0.2331
4/25/2001	0.0012	0.0113	0.0125	0.00485	0.112	0.1169

## Ohio River Mile 10.9

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
8/3/2000	0.0045	0.0180	0.0225	0.0122	0.249	0.2612
4/26/2001	0.0014	0.0126	0.0140	0.00442	0.1	0.1044

## Ohio River Mile 20.2

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
7/7/1998	0.0037	0.0239	0.0276	0.0148	0.219	0.2338
8/4/1998	<0.00156	0.0259	0.0267	0.0131	0.143	0.1559
9/15/1998	<0.0009	0.0239	0.0244	0.0126	0.158	0.1706
8/4/2000	0.0042	0.0669	0.0711	0.0158	0.421	0.4368
4/27/2001	0.0020	0.0128	0.0148	0.00541	0.164	0.1694

## Ohio River Mile 30.9

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
8/5/2000	0.0036	<0.0012	0.0042	0.0099	0.249	0.2589
4/30/2001	0.0020	0.0149	0.0169	0.0067	0.145	0.1517

## Ohio River Mile 40

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
7/8/1998	0.0020	0.0280	0.0300	0.0185	0.2460	0.2645
8/5/1998	<0.00097	0.0193	0.0198	0.0136	0.1318	0.1563
9/16/1998	<0.0009	0.0174	0.0179	0.0158	0.1310	0.1468
8/8/2000	0.0034	0.0554	0.0588	0.0453	0.703	0.7483
5/1/2001	0.0021	0.0153	0.0174	0.0067	0.122	0.1287

## Ohio River Mile 44.6

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
7/9/1998	0.0032	0.0151	0.0183	0.0174	0.1790	0.1964
8/6/1998	<0.00049	0.0152	0.0154	0.0141	0.1408	0.1549
9/17/1998	<0.0007	0.0163	0.0167	0.0160	0.1170	0.1330

## Ohio River Mile 69.9

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
8/9/2000	<0.0026	0.0239	0.0252	0.0308	0.404	0.4348
5/2/2001	0.0012	0.0105	0.0117	0.0066	0.0754	0.0820

## Ohio River Mile 99.2

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
8/11/2000	0.0053	No data		0.0286	No data	
5/3/2001	0.0013	0.0049	0.0061	0.00617	0.0541	0.0603

\* Non-detects reported as less than the detection limit (1/2 detection limit used for all calculations)

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## Ohio River Mile 129

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
7/14/1998	0.0025	0.0083	0.0107	0.0203	0.1070	0.1273
8/11/1998	<0.0006	0.0104	0.0107	0.0264	0.1100	0.1364
9/22/1998	0.0009	0.0118	0.0127	0.0085	0.1110	0.1195
8/12/2000	<0.0010	<0.0009	0.0010	0.025	0.170	0.1950
5/4/2001	0.0024	0.0057	0.0080	0.00803	0.081	0.0886

## Ohio River Mile 149

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
8/13/2000	<0.0014	<0.0010	0.0012	0.0213	0.0894	0.1107
5/5/2001	0.0014	0.0085	0.0099	0.00651	0.0807	0.0872

## Ohio River Mile 171.8

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
8/14/2000	<0.0010	0.0097	0.0102	0.0161	0.103	0.1191
5/7/2001	0.0016	0.0057	0.0073	0.00681	0.0737	0.0805

## Ohio River Mile 175.1

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
7/15/1998	0.0010	0.0194	0.0204	0.0088	0.2830	0.2918
8/12/1998	<0.00149	0.0155	0.0162	0.0130	0.1580	0.1710
9/23/1998	<0.0003	0.0078	0.0080	0.0075	0.1000	0.1075
8/16/2000	<0.0010	<0.0010	0.0010	0.0152	0.000875	0.0161
5/9/2001	0.0012	0.0061	0.0072	0.00566	0.103	0.1087

## Ohio River Mile 184.3

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
8/17/2000	0.0069	<0.0012	0.0075	0.0293	0.239	0.2683
5/10/2001	0.0017	0.0252	0.0269	0.0135	0.914	0.9275

## Ohio River Mile 207.7

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
7/16/1998	0.0017	0.0095	0.0112	0.0198	0.2340	0.2538
8/13/1998	<0.0003	0.0078	0.0080	0.0223	0.2200	0.2423
9/24/1998	0.0035	0.0065	0.0100	0.0207	0.1310	0.1517
8/18/2000	<0.0012	<0.0010	0.0011	0.0168	0.189	0.2058
5/11/2001	0.0019	0.0190	0.0209	0.00986	0.331	0.3409

## Ohio River Mile 264

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
7/16/1997	0.0027	0.0140	0.0167	0.0184	0.3176	0.3360
8/20/1997	0.0020	0.0098	0.0118	0.0152	0.5160	0.5312
9/24/1997	<0.0010	0.0080	0.0085	0.0131	0.2683	0.2814
6/18/1998	<0.0026	0.0697	0.0710	0.0473	1.7195	1.7668
11/3/1998	0.0025	0.0043	0.0068	0.0119	0.0888	0.1007
8/19/2000	<0.0010	<0.0009	0.0010	0.0155	0.171	0.1865
5/12/2001	0.0017	0.0086	0.0103	0.0105	0.265	0.2755

\* Non-detects reported as less than the detection limit (1/2 detection limit used for all calculations)

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**Ohio River Mile 281.5**

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
7/17/1997	0.0054	0.0323	0.0377	0.0165	0.2965	0.3130
8/21/1997	0.0033	0.0443	0.0476	0.0135	0.8920	0.9055
9/25/1997	<0.0009	0.0306	0.0311	0.0073	0.2469	0.2542
6/19/1998	0.0071	0.1360	0.1364	0.0466	1.2900	1.3366
11/4/1998	0.0080	0.0236	0.0240	0.0183	0.1010	0.1193

**Ohio River Mile 302.9**

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
7/18/1997	0.0059	0.0294	0.0353	0.0118	0.1996	0.2114
8/22/1997	<0.0004	0.0440	0.0442	0.0117	0.4830	0.4947
9/26/1997	0.0049	0.0180	0.0229	0.0156	0.1169	0.1325
6/20/1998	0.0071	0.1600	0.1671	0.0529	0.7330	0.7859
11/5/1998	0.0065	0.0190	0.0255	0.0164	0.0909	0.1073

**Ohio River Mile 321.5**

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
5/7/1999	0.0069	0.0122	0.0191	0.0187	0.0651	0.0838
7/15/1999	0.0035	0.0118	0.0153	0.0119	0.0547	0.0666
4/20/2000	0.0042	0.2840	0.2882	0.0189	1.609	1.6279

**Ohio River Mile 360.0**

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
5/9/1999	0.0035	0.0220	0.0255	0.0105	0.1370	0.1475
7/17/1999	0.0043	0.0127	0.0170	0.00943	0.0673	0.0767
4/22/2000	0.0058	0.2300	0.2358	0.0173	1.0710	1.0883

**Ohio River Mile 438.6**

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
5/10/1999	0.0033	0.0018	0.0051	0.0109	0.1020	0.1129
7/18/1999	0.0056	0.0171	0.0227	0.0147	0.1010	0.1157
4/23/2000	<0.0011	0.3800	0.3805	0.0171	1.4380	1.4551

**Ohio River Mile 486.5**

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
5/12/1999	0.0068	0.0141	0.0209	0.0149	0.0617	0.0766
7/19/1999	<0.0003	<0.0004	0.0004	0.0110	0.0228	0.0338
4/25/2000	0.0079	0.1370	0.1449	0.0311	0.6950	0.7261

**Ohio River Mile 494.5**

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
5/14/1999	0.0032	0.0122	0.0154	0.0110	0.0870	0.0980
7/21/1999	<0.0002	0.0108	0.0109	0.0144	0.0633	0.0777
4/26/2000	0.0089	0.1220	0.1309	0.0333	0.62	0.6533

\* Non-detects reported as less than the detection limit (1/2 detection limit used for all calculations)

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**Ohio River Mile 548.3**

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
5/15/1999	0.0017	0.0075	0.0092	0.00499	0.0491	0.0541
7/22/1999	<0.0003	0.0051	0.0052	0.0155	0.0280	0.0435
4/27/2000	0.0039	0.0472	0.0511	0.0142	0.2891	0.3033

**Ohio River Mile 625.7**

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
5/17/1999	0.0031	0.0166	0.0197	0.0124	0.1160	0.1284
7/23/1999	<0.0004	0.0047	0.0049	0.0112	0.0356	0.0468
4/28/2000	0.0081	0.2290	0.2371	0.0307	1.0140	1.0447

**Ohio River Mile 670.7**

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
5/18/1999	0.0043	0.0152	0.0195	0.0140	0.1040	0.1180
7/27/1999	0.0020	0.0057	0.0076	0.0081	0.0371	0.0452
5/1/2000	0.0060	0.1270	0.1330	0.0261	0.6780	0.7041

**Ohio River Mile 717.4**

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
5/19/1999	0.0029	0.0076	0.0105	0.0114	0.0488	0.0602
7/28/1999	0.0028	0.0107	0.0135	0.0133	0.0604	0.0737
5/2/2000	0.0043	0.0615	0.0658	0.0146	0.3530	0.3676

**Ohio River Mile 722.5**

Date sampled	2,3,7,8 TCDD pg/L (ppq)			Dioxin TEQ pg/L (ppq)		
	Dissolved	Particulate	Total	Dissolved	Particulate	Total
5/20/1999	0.0033	0.0084	0.0117	0.0123	0.0669	0.0792
7/29/1999	0.0032	0.0059	0.0091	0.0124	0.0452	0.0576
5/3/2000	0.0032	0.0654	0.0686	0.0102	0.4050	0.4152

\* Non-detects reported as less than the detection limit (1/2 detection limit used for all calculations)