

	Sample Collection Date	Flow (cu.ft./sec.)	Suspended solids (mg/L)	Sulfate (mg/L)	Total Hardness (mg/L)	Total Phosphorus (mg/L)	TOC (mg/L)
Pittsburgh	01/11/12	21,300	<5	50	73.1	<0.01	1.7
MP -7.4	03/08/12	30,600	5	47.2	60.5	0.013	1.6
(Allegheny)	05/03/12	21,300	5	59.2	78.1	<0.01	2
S. Pittsburgh	01/11/12	9,800	13	96	111	<0.01	1.4
MP -4.5	03/08/12	28,300	26	60	71.6	0.031	1.8
(Monongahela)	05/03/12	25,800	9	145	146	<0.01	1.6
Beaver Falls	01/11/12	3,900	6	55.2	131	0.054	3.6
MP -5.3	03/08/12	6,800	14	61	103	0.056	3.5
(Beaver)	05/03/12	2,100	8	91	169	0.086	3.4
New Cumberland	01/09/12	No	<5	59.2	92.7	0.021	1.9
MP 54.4	03/08/12	Flow	15	56.5	79.4	0.18	2
	05/15/12	Available	<5	56.5	81	0.027	2.3
Pike Island	01/09/12	42,600	12	61.8	93.8	<0.01	1.8
MP 84.2	03/08/12	70,400	14	58	77.2	0.018	2
	05/15/12	46,500	<5	64.5	81.3	<0.01	2.3
Hannibal	01/10/12	39,700	<5	57.8	98.5	0.017	1.8
MP 126.4	03/12/12	61,700	8	68.5	98	0.051	2
	05/16/12	45,600	9	69.2	84.5	0.027	2.1
Willow Island	01/10/12	41,000	<5	53	96.4	0.012	1.9
MP 161.8	03/12/12	64,500	14	65	89.7	0.011	1.9
	05/16/12	46,800	9	73.8	82.6	0.029	2.2
Marietta	01/10/12	8,600	11	102	215	0.054	2.2
MP -0.8	03/12/12	15,800	45	90.5	185	0.11	3.1
(Muskingum)	05/16/12	5,300	24	87.5	185	0.074	3.8
Belleville	01/24/12	128,900	30	61.5	109	0.038	2.1
MP 203.9	03/14/12	82,500	12	73.5	115	0.026	2.2
	05/21/12	24,900	5	78.5	97.5	0.011	2.2
Winfield	01/04/12	No	7	42.2	62.6	0.021	1.3
MP -31.1	03/06/12	Flow	41	108	52.7	0.018	1.8

(Kanawha)	05/17/12	Available	69	23.8	57.3	0.02	1.6
R.C. Byrd	01/24/12	163,900	29	42	69.6	0.06	1.6
MP 279.2	03/14/12	113,400	18	57.5	89.2	0.026	1.9
	05/21/12	41,300	11	50	78.6	0.015	2
Louisa	01/04/12	5,400	10	130	174	0.012	1.2
MP -20.3	03/06/12	20,500	150	106	118	0.029	1.8
(Big Sandy)	05/17/12	5,200	34	146	169	<0.01	1.5
Greenup	01/05/12	117,800	28	58.5	101	0.056	2
MP 341.0	03/07/12	209,500	63	69.5	84.8	0.034	2
	05/17/12	118,800	30	70	98.3	0.026	2.1
Lucasville	01/04/12	8,300	17	47.5	233	0.021	3.6
MP -15.0	03/06/12	10,400	61	101	253	0.13	<0.5
(Scioto)	05/17/12	3,900	46	49.2	215	0.13	3.7
Meldahl	01/05/12	134,100	19	66.5	112	0.024	2.2
MP 436.2	03/07/12	276,100	86	62.5	95	0.056	2.6
	05/17/12	144,100	18	82	114	0.036	2.3
Newtown	01/10/12	800	8	33.8	276	0.14	2.9
MP -7.5	03/14/12	1,000	<5	43.8	230	0.081	3.3
(Little Miami)	05/09/12	3,300	52	25.5	155	0.17	6.1
Covington	01/10/12	1,600	255	31.8	155	0.24	2.4
MP -4.7	03/20/12	8,300	26	31.2	163	0.22	3.1
(Licking)	05/31/12	600	18	42.5	156	0.022	3.3
Elizabethtown	01/10/12	No	6	53.5	328	0.23	2.6
MP -5.2	03/14/12	Flow	11	53.2	294	0.093	3.3
(Great Miami)	05/09/12	Available	181	37.4	259	0.27	5.2
Markland	01/25/12	269,400	64	49.2	118	0.13	2.6
MP 531.5	03/07/12	335,700	153	65	99.7	0.072	2.6
	05/17/12	154,700	27	71.5	116	0.058	3.2
McAlpine	01/25/12	316,900	139	43.2	122	0.24	2.8
MP 606.8	03/07/12	211,500	247	56.5	103	0.13	2.8
	05/17/12	161,600	45	69.5	122	0.079	3.5
Cannelton	01/09/12	134,100	26	47	132	0.054	2.3
MP 720.7	03/14/12	243,500	75	64	110	0.092	2.5
	05/31/12	57,100	<5	83.5	130	0.017	2.2
Sebree	01/05/12	No	42	50.8	121	0.045	2.6

MP -41.3 (Green)	03/01/12	Flow	182	88.3	144	0.19	3.6
	05/03/12	Available	19	106	212	0.015	1.8
Newburgh MP 776.1	01/05/12	264,100	76	47.2	121	0.081	2.8
	03/01/12	164,800	25	102	155	0.052	1.9
	05/03/12	193,300	42	98.5	152	0.07	1.9
J.T. Myers MP 846.0	01/05/12	369,800	66	45	115	0.069	2.8
	03/01/12	192,900	23	85.5	144	0.056	1.9
	05/03/12	209,400	45	84.5	149	0.056	1.9
Route 62 Bridge MP -28.5 (Wabash)	01/05/12	No	14	39	209	0.094	3.8
	03/01/12	Flow	28	73	256	0.068	3
	05/03/12	Available	90	78	249	0.081	3.4
Smithland MP 918.5	01/10/12	204,300	24	43.2	176	0.081	3
	03/13/12	410,600	94	65	135	0.11	3.1
	05/30/12	70,200	6	65.8	146	0.031	3
Pinkneyville MP -16.0 (Cumberland)	01/10/12	38,000	13	21.5	112	0.049	1.9
	03/08/12	48,000	15	30.5	104	0.024	1.8
	05/24/12	6,000	19	36.2	100	0.04	2
Paducah MP -6.0 (Tennessee)	01/10/12	66,000	6	11.3	79.5	0.083	2
	03/08/12	94,000	15	28	104	0.04	1.8
	05/24/12	14,000	8	20.3	66.4	0.029	1.7
Lock & Dam 52 MP 938.9	01/10/12	No	67	37.2	159	0.11	3.5
	03/13/12	Flow	118	67.2	131	0.097	3
	05/30/12	Available	7	53	128	0.031	2.8

Ammonia-N (mg/L)	Nitrate/Nitrite-N (mg/L)	TKN (mg/L)	Chlorides (mg/L)	Phenolics (ug/L)	Cyanide (mg/L)
0.11	0.57	0.14	18.1	<5	
<0.03	0.58	0.12	15.6	7.5	<0.005
<0.03	0.41	0.21	20.9	0.0082	
0.1	0.56	0.12	21.4	<5	
<0.03	0.52	0.3	10.4	6.3	<0.005
<0.03	0.59	0.26	29.3	<0.01	
0.094	1.1	0.39	42	7.2	
<0.03	1	0.42	37.6	8	<0.005
<0.03	1.2	0.64	64.2	0.012	
0.1	0.79	0.2	24.8	6.5	
<0.03	0.72	0.14	22.4	17.7	<0.005
<0.03	0.62	<0.1	20.9	<0.01	
0.11	0.74	0.19	23.7	7.8	
<0.03	0.71	0.16	21.1	<5	<0.005
<0.03	0.63	<0.1	18.9	<0.01	
0.098	0.78	0.18	25.2	6.2	
<0.03	0.75	0.19	33.4	<5	<0.005
<0.03	0.63	<0.1	19.7	<0.01	
0.084	0.74	0.18	24.7	5.4	
<0.03	0.72	0.3	21.2	<5	<0.005
<0.03	0.62	<0.1	21	<0.01	
0.12	1.7	0.21	35.9	7	
<0.03	1.3	0.43	37.4	<5	<0.005
<0.03	1.7	0.2	29.8	0.0067	
0.99	0.82	0.23	26.5	6.9	
<0.03	0.89	0.18	32.1	6.6	<0.005
<0.03	0.72	0.23	22.1	0.0055	
0.088	0.59	0.16	10.7	7.3	
<0.03	0.63	0.2	6.1	17.5	

<0.03	0.43	0.47	7	0.014	
<0.03	0.67	0.28	15.4	6.2	
<0.03	0.75	0.1	17.6	6.9	<0.005
<0.03	0.59	<0.1	14.7	<0.01	
0.068	0.48	0.12	23.1	7.6	
0.069	0.5	0.16	7.8	14.7	
<0.03	0.3	0.16	11.9	0.012	
0.099	0.76	0.26	16.4	6.6	
<0.03	0.62	0.34	14.2	6.9	
<0.03	0.93	0.33	16.7	0.0063	
0.1	2	0.46	32	8.3	
0.3	1.9	0.55	43	8	
<0.03	2.8	0.42	27.4	0.0059	
0.049	0.92	0.25	18	7.4	
<0.03	0.74	0.13	21.2	9.1	
<0.03	0.87	0.17	17.4	0.0071	
0.09	2.2	0.27	53.6	11.8	
<0.03	1.6	0.4	48.9	11	
0.041	1.5	1.1	24	0.0062	
0.058	0.82	0.14	8.8	6.2	
<0.03	0.65	0.43	6.5	9.6	
<0.03	1	0.37	10.5	<0.01	
0.13	3.1	0.41	53.4	19.6	
<0.03	2.6	0.56	57.2	6.8	
0.031	4.8	2	37.9	0.0087	
0.7	1	0.44	26.1	<5	
<0.03	0.76	2.8	18.5	13.7	
<0.03	0.94	0.28	17.9	0.0085	
1.7	0.84	0.11	22	6.6	
<0.03	0.74	0.87	16.2	9	
<0.03	0.93	0.37	17.3	0.0057	
0.11	0.96	0.13	16.4	<5	
<0.03	0.84	0.37	17.4	6.8	
<0.03	0.98	<0.1	20.1	<0.01	
0.12	1.5	0.27	7.4	6.6	

0.036	1.4	1.2	10.7	6.3
<0.03	1.2	0.26	13.7	<0.02
0.16	1	0.32	16	7.1
<0.03	1	0.28	27.4	5.6
<0.03	0.73	0.24	28.3	0.007
0.096	1	0.25	15.4	7.7
<0.03	1	0.21	25.6	5.8
<0.03	0.78	0.34	27.6	0.0089
0.089	2.2	0.46	23.1	10.6
<0.03	2.5	0.65	33.9	5.2
<0.03	1.4	0.53	39.3	0.0061
0.11	1.8	0.27	21	8.5
<0.03	1.2	0.65	19	10
0.071	1.1	0.3	21.8	<0.01
0.072	0.69	0.17	6.4	6.3
0.04	0.41	0.29	4.4	17.4
<0.03	0.053	0.13	7.8	<0.01
0.099	0.58	0.15	12.4	<5
0.14	0.41	0.36	4.6	7.5
<0.03	0.09	<0.1	11.6	<0.01
0.093	1.5	0.29	20.7	5.3
<0.03	1.1	0.64	20.1	7.8
<0.03	0.86	0.24	19.4	<0.01