

	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)	Ammonia-N (mg/L)
Pittsburgh	07/08/13	20,100	21	37.9	67.7	0.032	3.2	<0.03
MP -7.4	09/03/13	11,100	16	57.2	97.6	<0.01	2.7	0.038
(Allegheny)	11/04/13	18,900	9	28.1	88.7	0.18	3.1	<0.03
S. Pittsburgh	07/08/13	6,200	12	79.8	105	0.028	3.1	0.17
MP -4.5	09/03/13	11,600	20	41.3	68	0.038	3	<0.03
(Monongahela)	11/04/13	3,300	6	124	167	0.18	2.2	<0.03
Beaver Falls	07/08/13	2,400	18	39.3	131	0.11	5.3	<0.03
MP -5.3	09/03/13	1,200	13	50.7	141	0.11	4.8	<0.03
(Beaver)	11/04/13	2,500	9	44.4	152	0.1	5	<0.03
New Cumberland	07/15/13	No	8	62	94.5	0.026	3.7	<0.03
MP 54.4	09/11/13	Flow	5	50.7	100	0.044	2.8	<0.03
	11/14/13	Available	<5	55.4	97.1	0.14	3.1	<0.03
Pike Island	07/15/13	40,700	9	58.9	94.7	0.043	4.1	<0.03
MP 84.2	09/11/13	11,400	<5	53.3	94.9	0.019	2.7	<0.03
	11/14/13	25,300	6	64	121	0.25	3.2	<0.03
Hannibal	07/18/13	25,100	9	63.4	101	0.028	3.9	<0.03
MP 126.4	09/05/13	20,300	<5	64.4	99	0.025	2.7	<0.03
	11/11/13	29,000	<5	64.2	121	0.21	3.2	<0.03
Willow Island	07/18/13	26,400	<5	58.6	105	0.028	3.9	<0.03
MP 161.8	09/05/13	20,600	6	69	111	0.025	2.4	<0.03
	11/11/13	29,200	8	68	127	0.29	3	<0.03
Marietta	07/24/13	29,100	512	74.3	182	0.33	5.8	<0.03
MP -0.8	09/09/13	1,900	26	140	293	0.065	3	<0.03
(Muskingum)	11/11/13	5,100	25	115	232	0.4	4.4	<0.03
Belleville	07/24/13	66,100	23	72.1	140	0.042	4	<0.03
MP 203.9	09/09/13	14,500	<5	80.1	136	<0.01	2.4	<0.03
	11/18/13	45,600	5	65.2	134	0.035	3.2	<0.03
Winfield	07/11/13	No	23	27.8	55.8	0.045	2.7	<0.03
MP -31.1	09/12/13	Flow	28		72.4	0.029	1.9	<0.03

(Kanawha)	11/05/13	Available	10	50.5	97.6	0.061	1.7	<0.03
R.C. Byrd	07/24/13	101,600	18	46.3	106	0.045	3.8	<0.03
MP 279.2	09/09/13	22,200	10	53.3	109	0.04	2.3	<0.03
	11/18/13	58,000	13	70.2	134	0.033	2.8	<0.03
Louisa	07/11/13	5,900	520	116	121	0.12	3.5	<0.03
MP -20.3	09/12/13	1,000	14	193	265	<0.01	1.9	<0.03
(Big Sandy)	11/05/13	1,400	10	228	100	0.41	2.5	<0.03
Greenup	07/25/13	121,700	35	62.6	114	0.063	3.8	<0.03
MP 341.0	09/05/13	35,200	10	82.1	127	0.036	2.4	<0.03
	11/25/13	55,100	10	76.3	141	0.053	3	<0.03
Lucasville	07/11/13	17,600	227	55.3	197	0.26	<0.5	<0.03
MP -15.0	09/12/13	600	43	114	293	0.21	5.8	<0.03
(Scioto)	11/05/13	5,200	40	61.1	239	0.28	5.9	<0.03
Meldahl	07/25/13	128,000	18	54.1	120	0.059	3.6	<0.03
MP 436.2	09/05/13	42,300	20	74.7	127	0.042	3.5	<0.03
	11/25/13	57,900	33	83.2	161	0.087	3.8	<0.03
Newtown	07/15/13	1,000	30	33.1	266	0.19	3.8	<0.03
MP -7.5	09/05/13	100	24	39.3	268	0.29	3.5	<0.03
(Little Miami)	11/25/13	800	<5	36.5	248	0.16	4.1	<0.03
Covington	07/18/13	4,600	33	32.8	92.9	0.028	2.9	<0.03
MP -4.7	09/05/13	1,400	17	19.4	108	0.061	3.4	<0.03
(Licking)	11/25/13	2,500	12	31.1	173	0.089	4.6	<0.03
Elizabethtown	07/15/13	No	60	44.3	271	0.23	4.5	<0.03
MP -5.2	09/05/13	Flow	34	83.4	244	0.1	4.4	<0.03
(Great Miami)	11/25/13	Available	16	54.8	316	0.18	4.2	<0.03
Markland	07/17/13	133,000	28	49.4	103	0.063	4	<0.03
MP 531.5	09/11/13	26,000	8	69.6	127	0.062	2.9	<0.03
	11/13/13	51,600	16	81	172	0.023	2.9	<0.03
McAlpine	07/17/13	157,700	14	20.4	116	0.075	3.7	<0.03
MP 606.8	09/11/13	27,600	7	72.7	137	0.042	2.7	<0.03
	11/13/13	59,800	7	78.3	179	0.04	2.9	<0.03
Cannelton	07/16/13	245,200	78	19.1	109	0.12	3.3	<0.03
MP 720.7	09/24/13	54,500	11	77.7	141	0.05	3.1	<0.03
	11/19/13	188,400	38	65.6	170	0.084	3.5	<0.03
Sebree	07/11/13	No	143	49.4	123	0.26	4.3	<0.03

MP -41.3 (Green)	09/25/13	Flow	17	74.7	137	0.063	2.7	0.088
	11/19/13	Available	103	71.6	175	0.21	4.2	<0.03
Newburgh MP 776.1	07/24/13	314,800	74	40.7	113	0.073	3.6	<0.03
	09/25/13	66,600	28	76.4	175	0.042	3.6	<0.03
	11/19/13	194,500	124	34.3	131	0.093	3	<0.03
J.T. Myers MP 846.0	07/23/13	140,400	24	52.2	130	0.063	3.4	<0.03
	09/19/13	38,200	9	99.6	149	0.025	3.3	0.08
	11/20/13	220,200	<5	70.9	172	0.18	3.8	<0.03
Route 62 Bridge MP -28.5 (Wabash)	07/24/13	25,300	162	67.3	220	0.16	3.9	0.053
	09/20/13	4,300	44	110	259	0.08	5	0.072
	11/06/13	6,300	98	57	211	0.63	4.8	<0.03
Smithland MP 918.5	07/23/13	124,900	12	56.1	148	0.067	3.4	<0.03
	09/19/13	38,200	6	86.5	170	0.019	3.5	<0.03
	11/20/13	208,800	40	45.8	160	0.18	3.7	<0.03
Pinkneyville MP -16.0 (Cumberland)	07/10/13	60,000	13	21.5	84.3	0.067	2.1	<0.03
	09/25/13	15,000	19	18.6	89.9	0.067	2.8	<0.03
	11/19/13	12,000	13	22.3	109	0.05	2.5	<0.03
Paducah MP -6.0 (Tennessee)	07/24/13	77,000	14	14	67.7	0.057	2.1	<0.03
	09/25/13	42,000	11	12.3	55.2	0.074	2.4	<0.03
	11/19/13	38,000	<5	13.3	71.1	0.046	1.8	<0.03
Lock & Dam 52 MP 938.9	07/23/13	No	50	46.6	137	0.14	3.9	<0.03
	09/24/13	Flow	14	93.5	169	0.044	3.1	<0.03
	11/20/13	Available	96	52.9	161	0.21	3.8	<0.03

Nitrate/Nitrite-N (mg/L)	TKN (mg/L)	Chlorides (mg/L)	Phenolics (ug/L)	Cyanide (mg/L)
0.64	0.46	13.7	<0.01	
0.66	0.31	23.2	<0.01	
0.35	0.39	21.4	<0.01	
0.61	0.58	25.1	<0.01	
0.58	0.3	12.6	<0.01	
0.78	0.38	37.5	<0.01	<0.005
1	0.52	43.9	<0.01	
1.3	0.47	52.4	<0.01	
0.95	0.72	58.6	<0.01	<0.005
0.78	0.48	22.4	<0.01	
0.87	0.27	25	<0.01	
0.57	0.39	25.9	0.033	<0.005
0.82	0.52	24.2	0.04	
0.8	0.35	21	<0.01	
0.7	0.35	32.4	0.048	<0.005
0.81	0.42	25.5	<0.01	
0.65	0.23	20.5	<0.01	
0.67	0.31	37.4	<0.01	<0.005
0.91	0.41	25.1	<0.01	
0.76	0.23	29.9	0.03	
0.74	0.37	38.5	<0.01	<0.005
0.63	1.8	16.2	0.05	
0.8	0.75	59.3	<0.01	
1	0.66	42.9	0.01	
0.81	0.29	23.5	<0.01	
0.74	0.32	34.5	0.033	
0.75	0.32	37.2	<0.01	<0.005
0.52	0.5	6.3	<0.01	
0.46	0.37	8.5	<0.01	

0.53	0.35	11.9	<0.01	
0.79	0.24	16.4	<0.01	
0.67	0.35	23.5	<0.01	
0.77	0.29	36	0.07	<0.005
0.32	1.1	7.4	<0.02	
0.21	0.23	22.7	<0.01	
0.33	0.25	21	0.013	
0.78	0.26	16.9	<0.01	
0.68	0.22	25.2	<0.02	
0.65	0.41	32.2	<0.01	
3.6	2.4	23.7	<0.01	
0.078	1.6	64.9	<0.01	
1.5	1	40.9	<0.01	
1	<0.1	19.5	<0.01	
0.65	0.29	25.7	<0.01	
0.88	0.57	35.7	<0.01	
3	0.63	42.9	<0.01	
2.6	0.55	87.5	<0.01	
1.5	0.43	45.5	0.084	
0.41	0.35	4.7	<0.01	
0.21	0.42	7.4	<0.01	
1	0.51	15.1	0.084	
3.2	1.1	37.8	<0.01	
0.21	1.6	81.3	<0.01	
3.1	0.8	55.8	<0.01	
1.1	0.45	13.2	<0.01	
0.82	0.4	27.1	0.011	
0.9	0.41	44.9	<0.01	
1.1	0.42	15.4	<0.01	
0.9	0.38	31.1	<0.01	
1.2	0.27	45.7	<0.01	
1.2	0.56	15.2	<0.01	
0.95	0.47	30.9	<0.01	
1.1	0.48	38.5	<0.01	
1.1	0.94	13.2	<0.01	

0.98	0.66	28.9	<0.01
1.1	0.59	40.3	<0.01
0.96	0.41	5.2	<0.01
1.1	0.67	10.2	<0.01
0.42	0.41	11.5	<0.01
1.2	0.24	16.4	<0.01
0.84	0.49	27.1	<0.01
1	0.49	38.5	<0.01
1.3	1.1	26.3	<0.01
<0.05	1.2	47.2	<0.01
1.2	0.96	38.3	<0.01
1.4	0.33	17.9	<0.01
0.61	0.5	32.4	<0.01
0.95	0.49	32.4	<0.01
0.29	0.5	5.9	<0.01
0.11	0.71	6.4	<0.01
0.36	0.47	7.7	<0.01
0.15	0.27	6.8	<0.01
0.15	0.48	9.1	<0.01
0.25	0.4	12.8	<0.01
1.2	0.63	16.7	<0.01
0.6	0.68	31.5	<0.01
0.93	0.59	32.1	