

Bimonthly Sampling January - December 2003

	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)	Nitrate/Nitrite-N (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Chlorides (mg/L)	Phenolics (ug/L)	Cyanide (mg/L)
Pittsburgh	1/16/03	14000	6	41	108	0.03	2.30	0.07	0.93	0.25	35	<5	
MP -7.4	3/12/03	31400	5	40	84	0.03	1.74	0.16	1.20	0.27	35	<5	
(Allegheny)	5/7/03	8900	12	70	96	0.03	2.08	<0.03	1.43	0.22	23	<5	
	07/16/03	6600	11	38	116	0.20	2.20	0.03	0.81	0.20	24	<5	
	09/24/03	19100	12	37	88	0.03	2.79	0.04	1.09	0.39	42	<5	
	11/12/03	16100	8	47	72	<0.01	2.22	0.10	1.00	0.29	19	<5	
S. Pittsburgh	1/16/03	10100	9	58	108	0.08	2.26	0.06	0.89	0.30	37	<5	<0.005
MP -4.5	3/12/03	35800	26	52	80	0.09	1.60	0.05	0.87	0.34	19	<5	<0.005
(Monongahela)	5/7/03	18700	20	58	148	0.01	1.69	<0.03	1.09	0.22	20	<5	
	7/16/03	9600	27	40	100	0.11	2.30	0.03	0.44	0.24	20	<5	
	9/24/03	27100	53	36	64	0.18	5.10	0.08	1.13	0.56	43	<5	
	11/12/03	15800	12	58	92	0.03	1.97	0.15	1.10	0.33	11	<5	0.005
Beaver Falls	1/16/03	2400	5	60	156	0.08	4.63	0.13	1.27	0.72	6	<5	0.008
MP -5.3	3/12/03	7100	13	42	80	<0.01	4.22	0.07	1.48	0.53	76	<5	<0.005
(Beaver)	5/7/03	2500	12	53	176	0.09	5.58	0.04	1.49	0.36	69	<5	
	7/16/03	4300	30	32	152	0.13	6.00	0.06	1.00	0.59	55	<5	
	9/24/03	9500	39	34	112	0.13	7.39	0.09	1.13	0.74	43	<5	
	11/12/03	4000	7	53	152	0.05	5.04	0.13	1.30	0.89	37	<5	<0.005
New Cumberland	1/7/03		24	45	164	0.06	3.53	0.08	0.59	0.66	26	<5	<0.005
MP 54.4	3/5/03	No	15	53	104	0.07	2.17	0.06	2.15	0.38	41	<5	<0.005
	5/8/03		6	63	116	0.02	2.78	<0.03	1.10	0.20	34	<5	
	7/14/03	Flow	21	52	104	0.06	3.47	0.04	0.75	0.46	20	<5	
	9/15/03		8	52	88	0.05	3.09	0.05	0.97	0.40	33	<5	
	11/12/03	Available	6	58	104	0.03	2.48	<0.03	1.20	0.27	17	<5	<0.005
Pike Island	1/7/03	85000	19	48	104	0.07	2.89	0.08	1.25	0.50	25	<5	<0.005
MP 84.2	3/5/03	61600	46	54	100	0.10	2.95	0.06	2.07	0.35	<1	<5	<0.005
	5/8/03	34700	7	62	128	<0.01	2.84	0.11	1.26	0.22	40	<5	
	7/14/03	42100	16	40	100	0.10	3.11	0.05	1.00	0.35	24	<5	
	9/15/03	15600	8	53	92	0.09	3.20	0.04	1.03	0.33	22	<5	

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Hannibal MP 126.4	11/12/03	36100	6	58	96	0.02	2.26	<0.03	1.30	0.36	10	<5	<0.005
	1/7/03	87800	26	49	104	0.05	3.28	0.07	0.71	0.50	26	<5	<0.005
	3/5/03	62600	25	60	104	0.12	2.35	0.06	1.46	0.29	37	<5	<0.005
	5/8/03	35800	7	40	128	0.17	2.72	0.10	0.82	0.13	30	<5	
	7/14/03	45000	19	60	136	0.03	3.26	0.03	0.74	0.37	36	<5	
Willow Island MP 161.8	9/15/03	17700	7	53	96	0.02	3.23	0.04	1.06	0.32	21	<5	
	11/12/03	35800	83	53	112	0.19	5.09	0.03	1.40	0.42	12	<5	0.006
	1/7/03	89600	34	53	88	0.11	3.58	0.07	0.85	3.94	25	<5	<0.005
	3/12/03	89400	47	49	120	0.08	2.23	0.07	1.47	0.38	47	<5	<0.005
	5/15/03	84200	57	57	120	0.28	4.15	0.03	0.74	0.31	19	<5	
Marietta MP -0.8 (Muskingum)	7/10/03	55600	17	48	124	0.03	2.46	0.05	0.57	0.58	25	<5	
	9/9/03	40300	6	55	92	0.09	3.15	0.06	1.18	0.21	18	<5	
	11/4/03	37100	6	60	124	0.08	2.41	0.06	1.20	0.36	33	8.8	<0.005
	1/8/03	9300	37	55	180	0.17	5.73	0.08	1.39	0.63	34	<5	
	3/11/03	26300	188	62	168	0.32	7.23	0.20	1.16	1.05	79	<5	
Belleville MP 203.9	5/14/03	21800	114	54	168	0.38	6.64	<0.03	0.68	1.08	51	<5	
	7/9/03	6800	24	83	252	0.06	4.02	0.30	0.74	0.78	64	<5	
	9/8/03	11900	29	52	116	0.28	6.29	0.06	1.18	0.36	25	<5	
	11/3/03	6700	15	110	344	0.14	4.93	<0.03	1.10	0.37	20	5.4	
	1/9/03	82800	34	47	92	0.11	3.04	0.07	1.24	0.59	19	<5	0.023
Winfield MP -31.1 (Kanawha)	3/12/03	117400	81	54	120	0.31	3.53	0.25	0.78	0.58	40	<5	<0.005
	5/15/03	109200	58	38	124	0.27	4.55	0.04	1.82	0.33	33	<5	
	7/10/03	71700	30	52	128	0.09	2.75	0.04	0.64	0.39	34	<5	
	9/9/03	56100	5	47	108	0.06	3.70	0.05	0.99	0.22	20	<5	
	11/4/03	45800	4	65	120	0.03	2.63	0.06	1.20	0.28	23	<5	<0.005
Winfield MP -31.1 (Kanawha)	1/9/03				80	0.09	1.58	0.03	0.92	0.22		<5	
	3/12/03	No	13	30	64	0.02	1.60	0.07	1.18	0.14	19	<5	
	5/15/03		45	21	44	0.55	3.04	0.07	1.54	0.12	8	<5	
	7/10/03	Flow	17	49	76	0.03	2.37	0.05	0.71	0.24	5	<5	
	9/9/03		9	28	52	0.05	2.29	0.04	1.63	0.25	10	<5	

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	11/4/03	Available	7	23	72	<0.01	1.73	0.03	0.73	0.20	6	<5	
R.C. Byrd	1/9/03	122500	45	32	84	0.11	3.45	0.05	0.96	0.39	19	<5	<0.005
MP 279.2	3/12/03	170200	27	37	52	0.06	2.05	0.18	1.44	0.22	36	<5	<0.005
	5/15/03	142000	44	40	88	0.21	3.43	0.04	1.33	0.18	23	<5	
	7/10/03	105900	29	57	108	0.11	2.96	0.06	0.93	0.53	24	<5	
	9/9/03	75100	17	46	80	0.09	2.97	0.05	1.01	0.23	10	<5	
	11/4/03	65700	21	52	96	0.06	2.24	0.06	0.72	0.27	16	<5	<0.005
Louisa	1/8/03	6300	21	100	120	0.16	2.00	0.03	1.65	0.04	9	<5	
MP -20.3	3/11/03	4600	25	133	200	0.05	2.18	<0.03	0.20	0.17	25	<5	
(Big Sandy)	5/14/03	4500	37	105	176	0.10	2.96	<0.03	1.20	<0.10	12	<5	
	7/9/03	3500	186	83	224	0.50	4.91	0.04	0.46	0.62	10	<5	
	9/8/03	2600	49	107	196	0.14	3.61	0.05	0.69	0.46	27	<5	
	11/3/03	1000	10	210	280	0.03	2.30	<0.03	0.33	0.19	22	<5	
Greenup	1/8/03	160900	122	47	120	0.22	4.53	0.05	2.13	0.71	20	<5	
MP 341.0	3/11/03	186100	58	273	116	0.30	2.73	0.09	1.66	0.45	40	<5	
	5/14/03	227600	224	37	136	0.64	6.53	<0.03	0.60	1.05	21	<5	
	7/9/03	82100	87	58	252	0.12	6.22	0.05	0.82	0.74	39	<5	
	9/8/03	127200	20	39	100	0.12	4.96	0.07	0.78	0.65	29	<5	
	11/3/03	73300	5	60	128	0.07	2.34	<0.03	0.81	0.25	21	5	
Lucasville	1/8/03	7300	29	60	212	0.26	7.57	0.05	1.13	0.75	40	<5	
MP -15.0	3/11/03	25800	104	33	216	0.71	8.63	0.13	1.00	0.80	32	<5	
(Scioto)	5/14/03	23500	135	37	236	1.44	8.90	0.05	0.76	0.62	46	<5	
	7/9/03	7300	16	53	108	0.02	2.38	0.05	1.13	0.39	14	<5	
	9/8/03	15700	75	48	192	0.31	7.95	0.07	1.29	0.69	22	<5	
	11/3/03	3100	13	73	296	0.09	3.84	<0.03	0.83	0.52	41	<5	
Meldahl	1/12/03	116200	25	42	112	0.11	3.12	0.04	0.46	0.43	16	<5	
MP 436.2	3/9/03	234600	50	32	112	0.46	3.39	0.06	0.78	0.40	26	<5	
	5/4/03	72300	9	59	108	0.24	2.02	<0.03	0.85	0.13	20	<5	
	7/13/03	199400	57	42	108	0.16	4.43	<0.03	0.69	0.36	15	<5	
	9/13/03	54300	19	53	116	0.08	4.74	0.06	2.27	0.44	29	<5	

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	11/16/03	272100	220	33	88	0.56	6.75	0.04	2.30	0.78	9	<5	
Newtown	1/12/03	1000	7	37	280	0.14	3.94	0.05	1.25	0.39	4	<5	
MP -7.5	3/9/03	7700	270	33	216	0.66	6.74	<0.03	1.32	0.86	50	<5	
(Little Miami)	5/4/03	700	22	50	280	0.05	4.23	0.03	1.10	0.27	65	<5	
	7/13/03	1400	50	40	200	0.07	4.86	0.09	2.30	0.59	30	<5	
	9/13/03	700	8	27	268	0.05	3.39	0.06	2.77	0.41	79	<5	
	11/16/03	1600	17	28	216	0.16	4.66	0.07	1.20	0.51	29	<5	
Covington	1/12/03	2200	7	32	176	0.07	2.34	<0.03	1.65	0.32	10	<5	
MP -4.7	3/9/03	7000	14	32	136	0.09	2.21	0.06	1.38	0.39	13	<5	
(Licking)	5/4/03	1700	14	38	152	0.08	3.08	<0.03	1.26	0.15	19	<5	
	7/13/03	1100	18	30	100	0.17	6.46	0.06	1.20	0.52	14	<5	
	9/13/03	700	250	27	172	0.92	8.56	0.07	1.37	1.45	19	<5	
	11/16/03	11500	130	15	88	0.53	11.40	0.05	1.30	0.67	8	<5	
Anderson Ferry	1/28/03	32900	10	50	144	0.02	2.61	0.17	1.43	0.39	39	<5	
MP 477.5	3/26/03	158900	45	42	132	0.15	2.81	0.05	0.84	0.23	38	<5	
	5/15/03	269700	682	49	192	0.77	11.30	0.05	0.40	1.35	35	<5	
	7/23/03	59000	21	62	140	0.11	3.03	0.10	1.29	0.38	37	<5	
	9/17/03	39900	16	56	124	0.07	3.76	0.23	1.51	0.52	16	<5	
	11/20/03	185700	70	46	120	0.86	3.73	0.04	0.72	0.39	12	<5	
Elizabethtown	1/12/03		10	56	332	0.13	3.84	0.04	1.88	0.50	35	<5	
MP -5.2	3/9/03	No	204	30	236	0.75	8.15	0.09	1.14	0.90	48	<5	
(Great Miami)	5/4/03		16	43	140	0.22	4.80	0.04	0.79	0.36	120	<5	
	7/13/03	Flow	119	35	180	0.41	6.95	0.05	1.30	0.86	25	<5	
	9/14/03		22	45	292	0.23	4.19	0.05	1.30	0.72	30	<5	
	11/16/03	Available	7	42	296	0.08	2.86	0.05	1.00	0.41	35	<5	
Markland	1/12/03	131000	25	45	144	0.17	3.81	0.05	2.30	0.45	13	<5	
MP 531.5	3/9/03	267400	88	43	120	0.35	3.57	0.07	0.87	0.44	49	<5	
	5/4/03	67600	10	55	124	0.06	2.25	0.05	1.39	0.13	38	<5	
	7/13/03	237100	55	40	120	0.13	4.09	0.04	1.10	0.52	19	<5	
	9/14/03	53900	39	52	120	0.33	3.84	0.05	1.40	0.48	29	<5	

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Louisville MP 600.6	11/16/03	322700	100	32	104	0.30	6.61	0.04	1.90	0.47	19	<5	
	1/14/03	115000	24	47	140	0.15	3.33	0.04	2.67	0.38	16	<5	
	3/11/03	265200	48	77	148	0.43	3.28	0.04	0.64	0.38	35	<5	
	5/14/03	375000	106	41	148	0.52	5.44	0.04	0.78	0.32	29	<5	
	7/24/03	104900	38	57	132	0.24	3.14	0.05	0.66	0.14	30	<5	
	9/17/03	47300	11	52	132	0.17	3.90	0.03	1.65	0.37	33	<5	
West Point MP 625.9	11/20/03	180100	66	33	120	0.44	4.77	0.03	2.80	0.44	9	<5	
	1/14/03	115000	62	55	152	0.28	4.56	0.13	1.48	0.79	20	<5	
	3/11/03	265200	52	61	168	0.31	3.65	0.07	1.20	0.45	40	<5	
	5/14/03	375000	413	53	164	0.85	8.45	<0.03	0.68	0.90	19	<5	
	7/24/03	104900	113	93	116	0.33	3.22	0.07	0.61	0.28	23	<5	
	9/17/03	47300	17	70	164	0.29	4.41	0.11	1.39	0.68	34	<5	
Cannelton MP 720.7	11/20/03	180100	140	40	140	0.52	6.05	0.03	1.40	0.60	13	<5	
	1/9/03	235600	132	43	120	0.45	3.92	0.09	1.63	0.77	16	<5	
	3/6/03	253600	93	24	124	0.41	4.47	0.04	1.15	0.32	26	<5	
	5/8/03	258500	118	40	136	0.53	5.40	<0.03	0.86	0.49	10	<5	
	7/17/03	129100	31	48	164	0.13	2.93	0.03	0.93	0.28	51	<5	
	9/18/03	48300	10	39	120	0.13	4.53	0.07	2.13	0.44	29	<5	
Sebree MP -41.3 (Green)	11/13/03	143500	39	55	160	0.21	2.94	<0.03	0.76	0.34	16	<5	
	1/9/03		31	39	120	0.04	3.93	0.05	1.39	0.46	4	<5	
	3/6/03	No	84	51	112	0.21	4.30	0.03	0.97	0.31	5	<5	
	5/8/03		120	58	136	0.39	4.88	<0.03	0.87	0.63	10	<5	
	7/17/03	Flow	37	31	168	0.09	2.24	0.03	1.07	0.25	15	<5	
	9/18/03		25	26	124	0.14	4.08	0.08	1.54	0.47	19	<5	
Newburgh MP 776.1	11/13/03	Available	43	30	136	0.16	3.14	<0.03	0.93	0.42	8.4	<5	
	1/9/03	296700	142	45	148	0.45	7.14	0.06	0.74	0.75	20	<5	
	3/6/03	329000	128	56	112	0.50	5.05	0.04	0.73	0.49	22	<5	
	5/8/03	285400	168	45	132	0.72	3.85	0.03	1.45	0.65	35	<5	
	7/17/03	150600	107	52	120	0.30	3.55	0.04	0.79	0.41	18	<5	
	9/18/03	53800	13	50	168	0.07	4.38	0.08	1.40	0.39	24	<5	

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	11/13/03	141400	53	57	172	0.11	2.32	<0.03	0.82	0.44	22	<5	
J.T. Myers	1/9/03	373500	156	42	144	0.41	5.92	0.05	1.20	<0.10	22	<5	
MP 846.0	3/6/03	456800	164	42	108	0.69	5.74	0.05	0.76	0.43	21	<5	
	5/8/03	340300	129	38	124	0.47	4.01	0.04	1.26	0.37	15	<5	
	7/17/03	240200	177	38	152	0.53	4.32	0.05	0.78	0.47	40	<5	
	9/18/03	83200	16	52	136	0.16	4.51	0.14	0.80	0.41	15	<5	
	11/13/03	155900	48	60	132	0.18	2.26	<0.03	0.92	0.36	22	<5	
Route 62 Bridge	1/9/03		128	38	164	0.37	7.53	0.07	1.31	0.92	25	<5	
MP -28.5	3/6/03	No	79	50	192	0.28	4.93	0.04	0.63	0.35	26	<5	
(Wabash)	5/8/03		282	47	172	0.66	8.37	0.04	1.73	1.21	17	<5	
	7/17/03	Flow	0	0	144	0.30	5.22	0.04	1.05	0.61	0	<5	
	9/18/03		61	37	204	0.30	6.43	0.09	1.26	0.92	23	<5	
	11/13/03	Available	27	53	240	0.17	2.98	<0.03	0.90	0.49	29	<5	
Smithland	1/6/03	363800	67	27	140	0.29	6.31	0.11	2.33	0.52	85	<5	
MP 918.5	3/3/03	545800	146	38	120	0.56	6.34	0.18	1.23	0.56	20	<5	
	5/6/03	197300	42	41	120	0.19	4.63	<0.03	1.11	0.50	95	<5	
	7/7/03	102900	19	45	130	0.04	3.73	0.24	1.90	0.61	70	<5	
	9/9/03	363600	190	19	148	0.61	6.16	0.06	1.54	0.44	40	<5	
	11/4/03	115700	19	52	160	0.07	2.70	0.06	1.90	0.38	58	<5	
Pinkneyville	1/6/03	50000	31	16	112	0.16	3.03	0.04	1.62	0.15	58	<5	
MP -16.0	3/3/03	100000	35	18	112	0.16	3.40	0.06	1.50	0.25	27	<5	
(Cumberland)	5/6/03	30000	28	22	124	0.14	2.71	<0.03	0.52	0.27	44	<5	
	7/7/03	47000	17	12	76	0.04	2.60	0.15	1.61	0.60	44	<5	
	9/9/03	32000	9	33	72	0.09	2.74	0.07	1.34	0.17	50	<5	
	11/4/03	30000	17	25	88	0.18	1.68	0.04	1.40	0.31	29	<5	
Paducah	1/6/03	62000	6	16	84	0.07	2.78	0.05	1.70	0.10	58	<5	
MP -6.0	3/3/03	235000	30	10	60	0.07	2.98	0.04	1.81	0.24	38	<5	
(Tennessee)	5/6/03	73000	51	40	100	0.22	4.31	<0.03	0.72	1.45	68	<5	
	7/7/03	60000	12	8	56	0.08	2.45	0.11	1.05	0.43	69	<5	
	9/9/03	45000	6	28	48	0.06	2.44	0.06	1.70	0.24	33	<5	

Bimonthly Sampling January - December 2003

	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)	Nitrate/Nitrite-N (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Chlorides (mg/L)	Phenolics (ug/L)	Cyanide (mg/L)
	11/4/03	42000	6	13	56	0.13	1.58	0.03	0.93	0.22	60	<5	
Lock & Dam 52	1/6/03		92	39	136	0.42	7.57	0.07	0.78	0.69	49	<5	
MP 938.9	3/3/03	No	61	33	112	0.30	6.04	0.04	2.22	0.42	70	<5	
	5/6/03		7	14	80	0.06	2.02	<0.03	1.35	<0.10	48	<5	
	7/7/03	Flow	28	39	128	0.04	2.92	0.19	0.99	0.61	44	<5	
	9/9/03		190	36	136	0.60	6.44	0.06	1.50	0.52	38	<5	
	11/4/03	Available	11	60	160	0.03	3.13	0.09	1.60	0.43	58	<5	