

APPENDIX B: WATER SAMPLE RESULTS

B.1. Event Samples Collected at the USGS Station Site

Sample ID	Sample Date	Sample Time (CST)	Discharge (cfs)	Sonde Turbidity (NTU)	TSS (mg/L)	SSC (mg/L)	Total P (mg/L)	Dissolved Total P (mg/L)	Dissolved Total P (% TP)
BA-3034	5/14/2004	1100	20.0	18.2	41		0.16		
BA-3035	5/14/2004	2300	29.0	20.2	85		0.29	0.21	72.41%
BA-3036	5/15/2004	1100	23.0	8.1	22		0.20		
BA-3037	5/20/2004	45	20.0	19.2	102		0.32		
BA-3038	5/20/2004	115	45.0	88.1	266		0.54	0.11	20.37%
BA-3039	5/20/2004	1315	33.0	46.0	96		0.40	0.20	50.00%
BA-3040	5/21/2004	115	26.0	16.7	47		0.34		
BA-3041	5/21/2004	1315	27.0	13.9	36		0.36		
BA-3043	5/22/2004	1125	66.0	52.9	130		0.58	0.34	58.62%
BA-3047	5/23/2004	730	136.0	233.8	524		1.17	0.35	29.91%
BA-3049	5/23/2004	810	213.0	598.5	1400		1.89		
BA-3050	5/23/2004	835	248.0	662.0	1560		2.17		
BA-3051	5/23/2004	915	294.0	844.5	1640		2.09	0.26	12.44%
BA-3053M	5/23/2004	1750	185.0	162.9	312		0.52	0.20	38.46%
BA-3055	5/23/2004	2325	251.0	335.8	560		0.91		
BA-3057	5/24/2004	2325	226.0	61.6	112		0.38	0.23	60.53%
BA-3058	5/25/2004	1125	217.0	50.8	74		0.18		
BA-16	5/26/2004	1255	149.0	29.8	54		0.15		
BA-17	5/28/2004	1135	78.0	9.9	36		0.34		
BA-18 (Manual)	5/31/2004	1850	299.0	275.2	532		0.98	0.32	32.65%
BA-3062	6/1/2004	845	203.0	73.7	164		0.62		
BA-3063	6/1/2004	1650	239.0	81.5	126		0.66	0.35	53.03%
BA-3064	6/2/2004	450	242.0	56.6	100		0.66		
BA-19	6/3/2004	945	159.0	26.6	48		0.58	0.35	60.34%
BA-20	6/5/2004	1445	56.0	7.1	33		0.46	0.41	89.13%
BA-3068	6/9/2004	135	57.0	29.1	206		0.70		
BA-3070	6/9/2004	315	120.0	447.2	1620		1.90	0.26	13.68%
BA-3071	6/9/2004	1515	86.0	163.7	248		0.76		
BA-21	6/9/2004	1538	85.0	149.2	160		0.67	0.35	52.24%
BA-3072	6/10/2004	315	93.0	77.0	108		0.64		
BA-3075	6/11/2004	550	157.0	113.7	170		0.66		
BA-3077	6/12/2004	35	184.0	123.2	568		0.82	0.21	25.61%
BA-3079	6/13/2004	35	132.0	20.4	40		0.36		
BA-3081	6/13/2004	1405	170.0	233.3	360		0.76		
BA-3082	6/14/2004	205	125.0	32.0	56		0.42		
BA-3084	6/15/2004	205	84.0	13.6	28		0.44		
BA-3088	6/16/2004	2320	72.0	40.8	140		0.56		
BA-3090	6/17/2004	25	134.0	258.9	580		1.54	0.32	20.78%
BA-3092	6/18/2004	25	81.0	36.6	52		0.52		
BA-3097	6/20/2004	1225	45.0	5.8	15		0.43		
BA-3099	9/6/2004	835	9.10	18.2	176	194	0.41		
BA-3100	9/15/2004	1535	10.0	9.6		211			
BA-3101	10/23/2004	1120	21.7	139.2	91		0.29	0.09	31.03%
BA-3102	10/28/2004	2120	20.2	100.5	89		0.29		
BA-3103	12/10/2004	945			77		0.17		
BA-32	12/10/2004	1520			70		0.47	0.22	46.81%
BA-3104	12/10/2004	2150			53		0.77		

B.2 Low-flow Samples Collected at the USGS Station Site

Sample ID	Sample Date	Sample Time (CST)	Discharge (cfs)	Sonde Turbidity (NTU)	TSS (mg/L)	Total P (mg/L)	Dissolved Total P (mg/L)	Dissolved Total P (% TP)
BA-10	4/7/2004	10:00	12		< 10	0.17	0.11	64.71%
BA-11	4/13/2004	6:45	3.2		< 10	0.14	0.09	64.29%
BA-12	4/29/2004	11:00	1.6	1.5	< 6.7	0.11		
BA-13	5/11/2004	1040	9.0	1.9	7.8	0.19	0.11	57.89%
BA-15	5/17/2004	1600	11.0	1.5	11	0.21		
BA-22	6/21/2004	1000	32.0	5.1	31	0.26		
BA-23	7/7/2004	925	3.00	2.4	10	0.29	0.19	65.52%
BA-24	7/22/2004	1300	0.80	3.2	9.6	0.22		
BA-25	8/5/2004	1405	0.52	17.6	6.0	0.12	0.10	83.33%
BA-26	8/19/2004	950	0.50	21.5	12	0.11		
BA-27	9/9/2004	1140	0.47	11.1	5.2	0.09	0.05	55.56%
BA-28	9/29/2004	1038	0.34	6.5	2.0	0.10	0.08	80.00%
BA-29	10/15/2004	1050	3.2	17.6	3.5	0.10		
BA-30	10/27/2004	1038	1.4	13.8	5.2	0.16	0.09	56.25%
BA-31	11/18/2004	11:37	0.6	28.2	2.0	0.07		
BA-33	12/13/2004	13:55		-	8.0	0.34	0.23	67.65%

B.3. Event Samples Collected at the North Branch Site

Sample ID	Sample Date	Sample Time (CST)	Composite Time Span (hr)	Discharge (cfs)	Sonde Turbidity (NTU)	TSS (mg/L)	SSC (mg/L)	Total P (mg/L)	Dissolved Total P (mg/L)	Dissolved Total P (% TP)
NB-050804-1115	5/8/2004	1115	1	0.7		47		0.11		
NB-050804-2030	5/8/2004	2030	1			103		0.31		
NB-050904-030	5/9/2004	30	1			51		0.44	0.28	63.64%
NB-052004-1215	5/20/2004	1215	1			68		0.32	0.16	50.00%
NB-052104-2030	5/21/2004	2030	1			54		0.62		
NB-052204-0430	5/22/2004	430	1			55		0.35	0.26	74.29%
NB-052204-0645	5/22/2004	645	1	10.1		59		0.33		
NB-052204-1345	5/22/2004	1345	1			69		0.42		
NB-052304-0930	5/23/2004	930	1			996		1.59	0.28	17.61%
N5	5/23/2004	1100					720			
N7	5/23/2004	1300					400			
N9	5/23/2004	1500		143.0			262			
NB-052304-1800	5/23/2004	1800	2			228		0.57	0.26	45.61%
N15	5/23/2004	2100					201			
NB-052304-2330	5/23/2004	2330	1			412		0.78	0.25	32.05%
N22	5/24/2004	400					191			
N25	5/24/2004	700					158			
N28	5/24/2004	1000					354			
N2	5/24/2004	1245		234.3			143			
N4	5/24/2004	1645					118			
NB-052404-2345	5/24/2004	2345	2			118		0.40	0.20	50.00%
N10	5/25/2004	445					105			
N13	5/25/2004	1045					91			
N2	5/25/2004	1615					54			
NB-052604-1315	5/26/2004	1315	2			40		0.28		
NB-052804-1125E	5/28/2004	1125		30.7		15		0.32		
NB-053004-2245	5/30/2004	2245	1			145		0.66		
N22	5/31/2004	815					58			
N25	5/31/2004	1115					286			
N28	5/31/2004	1415					555			
NB-053104-1730	5/31/2004	1730	1	257.2		424		0.77	0.26	33.77%
N3	5/31/2004	1900					375			
NB-060104-0830	6/1/2004	830	1			81				
N22	6/1/2004	1400					101			
NB-060204-0445	6/2/2004	445	2			87		0.34		
N13	6/2/2004	1545					67			
N19	6/3/2004	345					55			
NB-060304-1100E	6/3/2004	1100				26		0.36	0.27	75.00%
NB-060504-1415E	6/5/2004	1415		16.2		13		0.46	0.43	93.48%
NB-060904-800	6/9/2004	800	1	51.1	730.4	792		1.47	0.36	24.49%
N3	6/9/2004	930		46.9	573.0		523			
N5	6/9/2004	1130		44.2	336.5		347			
NB-060904-1500	6/9/2004	1500	1	36.1	154.2	140		0.58		
N15	6/9/2004	2115		31.9	78.0		77			
NB-061004-300	6/10/2004	300	1	38.7	83.6	74		0.57		
N24	6/10/2004	615		48.5	98.6		94			
N28	6/10/2004	1015		58.0	95.9		93			
NB-061004-1200	6/10/2004	1200	1	59.5	88.3	84		0.54		
N7	6/10/2004	1530		62.2	75.3		63			
N11	6/10/2004	1930		66.5	65.7		99			
NB-061004-2300	6/10/2004	2300	1	71.6	57.0	60		0.76		

Sample ID	Sample Date	Sample Time (CST)	Composite Time Span (hr)	Discharge (cfs)	Sonde Turbidity (NTU)	TSS (mg/L)	SSC (mg/L)	Total P (mg/L)	Dissolved Total P (mg/L)	Dissolved Total P (% TP)
NB-061104-645	6/11/2004	645	2	138.8	119.5	138		0.73		
N3	6/11/2004	945		146.3	79.4		50			
N6	6/11/2004	1545		134.4	37.3		39			
N8	6/11/2004	1945		129.5	31.5		45			
N10	6/11/2004	2345		105.1	25.5		37			
NB-061204-245	6/12/2004	245	2	168.4	266.9	404		0.90	0.35	38.89%
N13	6/12/2004	545		138.8	66.5		154			
N2	6/12/2004	1130		122.0	26.6		29			
N3	6/12/2004	1330		116.1	22.7		36			
NB-061304-0030	6/13/2004	30	2	99.3	18.8	32		0.45		
N13	6/13/2004	930		73.3	14.7		24			
N14	6/13/2004	1130		90.6	62.9		68			
NB-061304-1430	6/13/2004	1430	2	144.0	241.7	184		0.70		
N2	6/13/2004	1710		114.8	79.3		97			
NB-061404-0200	6/14/2004	200	2	74.6	27.3	34		0.83		
NB-061504-0215	6/15/2004	215	2	32.5	21.2	29		0.29		
N9	6/15/2004	800		30.5	18.7		29			
NB-061704-115	6/17/2004	115	2	94.3	758.7	36		0.48		
N10	6/17/2004	1415		39.7	50.1		49			
NB-061704-2350	6/17/2004	2350	2	36.4	41.0	106		0.60		
NB-121004-1415E	12/10/2004	1415		2.5	-	36		2.15	1.21	56.28%

B.4. Low-flow Samples Collected at the North Branch Site

Sample ID	Sample Date	Sample Time (CST)	Discharge (cfs)	Sonde Turbidity (NTU)	TSS (mg/L)	Total P (mg/L)	Dissolved Total P (mg/L)	Dissolved Total P (% TP)
NB-040704E	4/7/2004	10:20			< 10	0.10	0.10	100.00%
NB-042904E	4/29/2004	10:00			< 6.7	0.15		
NB-051104E	5/11/2004	1300	1.49		10	0.21	0.20	95.24%
NB-062104E	6/21/2004	1125	6.06	13.0	13	0.57		
NB-070704E	7/7/2004	1115	0.58	9.3	6.0	0.31	0.25	80.65%
NB-072204E	7/22/2004	1335	0.43	4.6	7.2	0.45		
NB-080404E	8/4/2004	1215	0.22	11.2	7.3	0.13	0.08	61.54%
NB-081904E	8/19/2004	1005	0.11	8.1	< 4.0	0.10		
NB-090904E	9/9/2004	1240	0.20	6.5	< 4.0	0.10	0.08	80.00%
NB-092904E	9/29/2004	1630	0.22	0.5	2.8	0.14	0.08	57.14%
NB-101504E	10/15/2004	1000	0.20	2.2	< 2.0	0.09		
NB-102704E	10/27/2004	1630	0.15	41.8	7.6	0.15	0.09	60.00%
NB-111804E	11/18/2004	8:45			2.2	0.16		

B.5. Event Samples Collected at the South Branch Site

Sample ID	Sample Date	Sample Time (CST)	Composite Time Span (hr)	Discharge (cfs)	Sonde Turbidity (NTU)	TSS (mg/L)	SSC (mg/L)	Total P (mg/L)	Dissolved Total P (mg/L)	Dissolved Total P (% TP)
SB-050804-500	5/8/2004	500	1			182		0.35		
SB-050804-700	5/8/2004	700	1	6.8		181		0.33	0.11	33.33%
SB-050804-2045	5/8/2004	2045	1			298		0.53		
SB-050904-045	5/9/2004	45	1			115		0.57		
SB-052004-1200	5/20/2004	1200	1			93		0.48	0.28	58.33%
SB-052104-1015	5/21/2004	1015	1			105		0.63		
SB-052104-1945	5/21/2004	1945	2			152		0.59	0.34	57.63%
SB-052204-0630	5/22/2004	630	1	11.3		196		0.53		
SB-052204-1330	5/22/2004	1330	1			370		0.83		
SB-052304-0900	5/23/2004	900	1			4920		7.60	0.17	2.24%
S5	5/23/2004	1030					8662			
S7	5/23/2004	1230					4669			
S9	5/23/2004	1430		37.3			2286			
SB-052304-1730	5/23/2004	1730	2			972		1.63	0.19	11.66%
S15	5/23/2004	2030					2549			
SB-052304-2330	5/23/2004	2330	2			1520		2.51	0.23	9.16%
S22	5/24/2004	330					10151			
S25	5/24/2004	630					690			
S28	5/24/2004	930					767			
SB-052404-1220	5/24/2004	1220		24.0		392		0.76	0.26	34.21%
S5	5/24/2004	1630					3865			
SB-052404-2330	5/24/2004	2330	2			224		0.84	0.29	34.52%
S11	5/25/2004	430					423			
S14	5/25/2004	1030					319			
S2	5/25/2004	1600					312			
SB-052604-1300	5/26/2004	1300	2			65		0.46		
SB-052804-1120E	5/28/2004	1120		7.4		28		0.46		
SB-053004-2230	5/30/2004	2230	1			316		0.66		
S22	5/31/2004	800					1011			
SB-053104-1730	5/31/2004	1730	1			2000				
S4	5/31/2004	1900					1852			
SB-060104-0830	6/1/2004	830	1			60				
S23	6/1/2004	1400					910			
SB-060204-0430	6/2/2004	430	2			106		0.60		
S13	6/2/2004	1530					25			
S19	6/3/2004	330					9			
SB-060304-1030E	6/3/2004	1030				35		0.50	0.34	68.00%
SB-060504-1345E	6/5/2004	1345		0.8		14		0.59	0.48	81.36%
SB-060904-745	6/9/2004	745	1	16.7	1173.7	412		1.18	0.26	22.03%
S3	6/9/2004	915		15.9	1145.2		259			
SB-061004-1145	6/10/2004	1145	1	10.8	36.3	66		0.57		
S6	6/10/2004	1515		9.4	34.5		238			
S10	6/10/2004	1915		8.4	33.0		1017			
SB-061004-2245	6/10/2004	2245	1	8.1	28.9	144		1.84		
SB-061104-630	6/11/2004	630	2	21.7	58.3	540		1.70		
S3	6/11/2004	930		21.1	32.6		2440			
S4	6/11/2004	1130		17.4	23.4		1985			
S6	6/11/2004	1530		13.5	15.2		2588			
S8	6/11/2004	1930		10.7	11.5		388			

Sample ID	Sample Date	Sample Time (CST)	Composite Time Span (hr)	Discharge (cfs)	Sonde Turbidity (NTU)	TSS (mg/L)	SSC (mg/L)	Total P (mg/L)	Dissolved Total P (mg/L)	Dissolved Total P (% TP)
SB-061204-0030	6/12/2004	30	2	27.9	7.3	348		0.98	0.32	32.65%
S12	6/12/2004	330		17.7	4.4		303			
S13	6/12/2004	530		15.3	3.2		132			
S2	6/12/2004	1115		11.7	2.5		158			
S3	6/12/2004	1315		10.9	2.2		79			
SB-061304-215	6/13/2004	215	2	7.9	1.6	26		0.56		
S14	6/13/2004	1315		16.1	1.5		181			
SB-061304-1450	6/13/2004	1450		23.7	1.3	596		1.13		
SB-061304-1800	6/13/2004	1800	2	17.4	1.1	452		2.35		
SB-061404-1500	6/14/2004	1500		8.6	1.1	52		0.65		
SB-061504-GRAB	6/15/2004	815		6.9	1.1		20			
SB-061704-1630	6/17/2004	1630		10.9	23.4	768		1.64	0.50	30.49%
SB-121004-1445E	12/10/2004	1445		4.8		138		0.57	0.19	33.33%

B.6. Low-flow Samples Collected at the South Branch Site

Sample ID	Sample Date	Sample Time (CST)	Discharge (cfs)	Sonde Turbidity (NTU)	TSS (mg/L)	Total P (mg/L)	Dissolved Total P (mg/L)	Dissolved Total P (% TP)
SB-040704E	4/7/2004	10:20			< 10	0.33	0.27	81.82%
SB-042904E	4/29/2004	10:05			< 10	0.13		
SB-051104E	5/11/2004	1330	1.48		6.7	0.30	0.23	76.67%
SB-062104E	6/21/2004	1115	2.98	17.9	< 10	0.42		
SB-070704E	7/7/2004	1120	0.33	7.3	10	0.22	0.14	63.64%
SB-072204E	7/22/2004	1330	0.39	5.9	7.6	0.27		
SB-080404E	8/4/2004	1200	0.08	8.4	4.0	0.16	0.11	68.75%
SB-081904E	8/19/2004	1000	0.04	9.3	6.8	0.14		
SB-090904E	9/9/2004	1230	0.08	7.6	4.0	0.12	0.08	66.67%
SB-092904E	9/29/2004	1635	0.06	1.5	< 2.0	0.05	0.05	100.00%
SB-101504E	10/15/2004	1005	0.04	7.0	3.5	0.09		
SB-102704E	10/27/2004	1645	0.07	10.9	< 4.0	0.16	0.07	43.75%
SB-111804E	11/18/2004	8:50			2.2	0.07		