

Stream Sampling Results

BB1 - Black Brook, Pleasant Plains Road, Pleasant Plains - Intensive High Flow/Low Flow Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	13:30	6.34	17.2	3.88	25	19.2	< 2.0	-	3.0	120	1.0	0.98	0.81	0.11	< 0.02	< 0.03	0.81	0.05	0.10	-	-
06/10/03	15:00	6.45	20.1	3.63	25	21.0	< 2.0	-	7.0	140	1.6	0.96	0.15	0.14	< 0.02	< 0.03	0.15	0.06	0.10	-	-
07/14/03	11:15	6.60	21.0	2.62	59	21.2	< 2.0	-	3.0	190	4.7	1.60	1.75	0.19	< 0.02	< 0.03	1.75	0.14	0.21	< 1.0	-
07/15/03	13:30	6.51	21.8	2.10	61	21.4	< 2.0	-	8.2	190	3.3	1.64	1.96	0.22	< 0.02	< 0.03	1.96	0.14	0.23	< 1.0	-
08/05/03	14:50	6.55	23.9	3.82	51	19.0	< 2.0	-	6.0	180	6.5	1.64	0.53	0.16	0.42	< 0.03	0.95	0.17	0.25	-	-
08/06/03	12:25	6.17	22.6	2.89	41	18.2	< 2.0	-	11.0	160	4.9	1.46	2.04	0.21	< 0.02	< 0.03	2.04	0.10	0.10	-	-
08/25/03	12:20	6.57	21.3	2.66	64	34.1	< 2.0	-	3.0	190	4.1	1.94	0.79	0.22	< 0.02	< 0.03	0.79	0.13	0.24	-	-
08/26/03	13:10	6.39	21.9	2.48	53	30.4	< 2.0	-	7.0	200	2.8	1.82	0.51	0.21	< 0.02	< 0.03	0.51	0.13	0.23	-	-
11/03/03	10:50	6.56	14.7	3.61	32	28.6	< 2.0	-	2.0	130	1.9	1.24	1.31	< 0.05	< 0.02	< 0.03	1.31	0.07	0.12	-	-
11/04/03	13:50	6.91	13.4	3.06	33	30.1	< 2.0	-	2.0	160	2.2	1.33	1.40	0.05	< 0.02	< 0.03	1.40	0.08	0.14	-	-
11/17/03	13:30	3.45	6.7	8.32	36	22.2	< 2.0	-	2.0	150	1.2	0.53	2.57	0.07	0.40	< 0.03	2.97	0.03	0.05	-	-
11/18/03	8:15	3.17	6.9	6.91	39	21.0	< 2.0	-	< 0.5	160	1.7	0.55	0.20	0.10	0.44	< 0.03	0.64	0.03	0.07	-	-

Stream Sampling Results

DR1 - Dead River, Stonehouse Road, Mount Bethel - Intensive High Flow/Low Flow Station, Biomass Station, SOD Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	15:00	7.00	17.2	6.20	51	5.3	< 2.0	-	7.5	220	8.4	0.86	1.58	0.10	1.03	< 0.03	2.61	0.06	0.11	-	-
06/10/03	16:10	7.17	18.8	6.09	56	4.7	< 2.0	-	12.5	220	10.4	0.73	0.34	0.25	1.10	< 0.03	1.44	0.07	0.11	-	-
07/14/03	12:30	7.25	20.7	7.08	78	3.8	< 2.0	-	20	330	18.0	0.82	0.63	0.12	2.33	< 0.03	2.96	0.51	0.61	4.7	-
07/15/03	15:00	7.37	24.2	8.17	80	4.0	< 2.0	-	24	320	8.6	0.80	1.57	0.15	2.45	< 0.03	4.02	0.50	0.64	1.3	-
07/16/03	14:11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.22
08/05/03	14:15	NA	23.5	6.09	54	6.7	< 2.0	-	47	210	44.0	2.46	0.93	0.13	1.23	< 0.03	2.16	0.19	0.30	-	-
08/06/03	13:25	6.28	22.8	4.78	35	8.1	< 2.0	-	26	130	33.0	1.76	2.63	0.16	0.74	< 0.03	3.37	0.10	0.21	-	-
08/14/03	-	-	-	-	-	-	-	0.35	-	-	-	-	-	-	-	-	-	-	-	-	-
08/25/03	14:10	8.00	24.2	11.91	95	3.8	< 2.0	-	8.5	340	6.3	0.40	5.01	0.16	2.41	< 0.03	7.42	0.60	0.60	4.0	15.17
08/26/03	14:30	8.10	23.5	10.83	94	4.0	< 2.0	-	15.0	400	9.3	0.49	0.24	0.07	2.60	< 0.03	2.84	0.70	0.85	< 1.0	-
09/30/03	14:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.70
10/30/03	-	-	-	-	-	-	-	1.38*	-	-	-	-	-	-	-	-	-	-	-	-	-
11/03/03	14:40	6.98	16.1	6.11	72	5.4	< 2.0	-	3.0	210	5.0	0.44	0.52	< 0.05	1.47	< 0.03	1.99	0.12	0.16	-	-
11/04/03	7:05	7.10	13.9	5.92	75	5.6	< 2.0	-	6.5	240	4.0	0.49	1.21	0.09	1.16	< 0.03	2.37	0.12	0.21	-	-
11/17/03	14:20	7.35	7.7	9.72	79	3.4	< 2.0	-	5.5	260	3.4	0.40	0.46	< 0.05	3.01	< 0.03	3.47	0.44	0.47	2.0	-
11/17/03	14:25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.05
11/18/03	15:50	6.99	9.4	9.25	82	3.6	< 2.0	-	5.5	260	4.3	0.40	0.42	0.08	2.08	< 0.03	2.50	0.44	0.50	1.3	-

*single value

Stream Sampling Results

GB1 - Great Brook, Pleasant Plains Road, Great Swamp National Wildlife Refuge - Intensive High Flow/Low Flow Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	13:50	6.48	18.6	4.06	36	9.5	< 2.0	-	2.5	150	2.4	1.95	1.62	0.09	0.36	< 0.03	1.98	0.08	0.13	-	-
06/10/03	15:05	6.55	20.0	4.00	37	10.1	< 2.0	-	6.0	150	3.4	1.83	0.30	0.18	0.33	< 0.03	0.63	0.09	0.13	-	-
07/14/03	11:35	6.50	20.0	3.09	64	7.2	< 2.0	-	5.5	230	7.5	1.12	0.66	0.06	0.40	< 0.03	1.06	0.04	0.10	< 1.0	-
07/15/03	13:45	6.55	21.8	3.03	65	7.5	< 2.0	-	10.0	190	5.9	1.22	0.80	0.09	< 0.02	< 0.03	0.80	0.05	0.12	< 1.0	-
08/05/03	15:10	6.46	24.0	2.98	48	9.0	< 2.0	-	12.0	150	14.0	2.57	0.70	0.08	0.38	< 0.03	1.08	0.07	0.20	-	-
08/06/03	12:40	6.20	23.0	2.37	36	9.1	< 2.0	-	13.0	110	14.0	2.55	1.81	0.16	< 0.02	< 0.03	1.81	0.09	0.22	-	-
08/25/03	13:15	6.38	21.4	4.13	84	10.5	< 2.0	-	5.0	220	15.0	3.03	0.60	0.09	< 0.02	< 0.03	0.60	0.08	0.21	-	-
08/26/03	13:40	6.46	21.2	4.00	80	9.9	< 2.0	-	7.5	240	12.0	2.95	0.08	0.05	< 0.02	< 0.03	0.08	0.07	0.20	-	-
11/03/03	11:45	6.79	14.8	3.09	44	11.3	< 2.0	-	2.5	150	3.7	1.09	0.73	0.05	0.37	< 0.03	1.10	0.05	0.13	-	-
11/04/03	14:40	6.83	13.5	2.58	50	10.1	< 2.0	-	2.5	170	4.5	1.18	0.53	0.08	0.37	< 0.03	0.90	0.06	0.13	-	-
11/17/03	12:50	6.99	6.6	7.77	51	7.4	< 2.0	-	3.0	200	3.8	0.49	2.35	0.60	0.60	< 0.03	2.95	0.02	0.10	-	-
11/18/03	7:50	6.78	7.0	6.21	54	7.4	< 2.0	-	3.5	210	5.0	0.59	0.15	0.14	0.58	< 0.03	0.73	0.02	0.09	-	-

Stream Sampling Results

PA1 - Passaic River, Correy Road Bridge, Washington Corner - Intensive High Flow/Low Flow Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	9:15	7.17	13.8	8.88	43	3.9	< 2.0	–	4.5	150	3.3	0.69	0.64	0.13	1.11	< 0.03	1.75	0.02	0.06	–	–
06/10/03	9:15	7.30	15.5	8.37	42	3.4	< 2.0	–	12.5	170	4.3	0.75	0.38	0.24	1.23	< 0.03	1.61	0.02	0.06	–	–
07/14/03	7:35	6.96	17.6	9.19	46	2.1	< 2.0	–	1.5	200	2.8	0.41	0.38	0.09	1.19	< 0.03	1.57	0.01	0.02	< 1.0	–
07/15/03	8:15	7.00	18.0	9.17	46	2.4	< 2.0	–	6.0	150	1.9	0.40	0.51	0.11	1.16	< 0.03	1.67	0.05	0.05	< 1.0	–
08/05/03	10:50	6.86	23.1	7.65	46	3.7	< 2.0	–	4.5	150	3.7	0.62	0.68	0.07	0.95	< 0.03	1.63	0.01	0.03	–	–
08/06/03	8:55	6.80	20.6	6.71	38	6.4	< 2.0	–	19.0	89	19.0	1.47	2.54	0.23	0.78	< 0.03	3.32	0.02	0.12	–	–
08/25/03	9:00	7.12	17.5	8.34	61	2.2	< 2.0	–	3.0	180	3.7	0.34	1.43	0.07	1.14	< 0.03	2.57	< 0.01	0.05	–	–
08/26/03	8:50	7.28	18.9	9.11	51	2.5	< 2.0	–	4.0	200	2.0	0.20	0.08	< 0.05	1.11	< 0.03	1.19	< 0.01	0.09	–	–
11/03/03	6:35	6.88	12.1	9.49	56	3.4	< 2.0	–	2.0	160	2.6	0.45	0.38	< 0.05	1.16	< 0.03	1.54	< 0.01	0.12	–	–
11/04/03	8:50	6.51	13.1	9.79	55	3.0	< 2.0	–	1.5	180	2.2	0.43	1.29	0.06	1.15	< 0.03	2.44	< 0.01	0.08	–	–
11/17/03	6:55	6.99	7.2	9.83	53	1.7	< 2.0	–	0.5	170	1.9	0.35	1.21	< 0.05	1.23	< 0.03	2.44	< 0.01	0.03	1.3	–
11/18/03	9:00	6.84	6.3	10.65	55	2.0	< 2.0	–	< 0.5	230	2.3	0.34	0.06	0.06	1.29	< 0.03	1.35	< 0.01	0.03	–	–

Stream Sampling Results

PA2 - Passaic River, Maple Avenue Bridge, Millington - Intensive High Flow/Low Flow Station, Biomass Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	14:35	6.56	17.4	5.59	31	11.1	< 2.0	-	4.0	140	3.1	1.51	0.65	0.11	0.41	< 0.03	1.06	0.06	0.13	-	-
06/10/03	15:35	6.88	19.3	5.03	32	11.4	< 2.0	-	8.0	140	4.6	1.67	0.30	0.16	0.39	< 0.03	0.69	0.07	0.12	-	-
07/14/03	12:00	6.72	21.7	4.77	53	8.1	< 2.0	-	18.0	200	19.0	1.61	1.01	0.11	0.46	< 0.03	1.47	0.05	0.12	< 1.0	-
07/15/03	14:15	5.69	23.1	4.59	53	7.5	< 2.0	-	20.0	210	11.0	1.64	0.68	0.16	0.48	< 0.03	1.16	0.01	0.07	< 1.0	-
07/16/03	14:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.03
08/05/03	14:35	7.07	24.2	6.02	26	8.5	2.4	-	58	110	76.0	2.57	1.41	0.17	0.78	< 0.03	2.19	0.10	0.27	-	-
08/06/03	13:05	6.28	22.6	4.63	27	8.6	< 2.0	-	25	100	28.0	2.15	1.32	0.16	0.50	< 0.03	1.82	0.06	0.14	-	-
08/24/03	17:35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.12
08/25/03	14:00	6.68	22.3	3.67	61	12.5	< 2.0	-	8.0	200	13.0	2.80	2.62	0.14	0.41	< 0.03	3.03	0.09	0.17	1.3	-
08/26/03	14:05	6.74	23.3	3.88	66	11.5	< 2.0	-	9.0	200	11.0	2.28	0.46	0.15	0.40	< 0.03	0.86	0.10	0.19	< 1.0	-
09/30/03	13:55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.2
11/03/03	13:30	6.99	14.9	4.44	38	14.0	< 2.0	-	4.5	140	4.4	1.23	0.85	< 0.05	0.38	< 0.03	1.23	0.05	0.10	-	-
11/04/03	7:50	6.83	14.1	5.33	45	14.0	< 2.0	-	6.5	160	6.6	1.36	1.09	0.07	0.50	< 0.03	1.59	0.06	0.15	-	-
11/17/03	12:05	7.01	6.1	8.79	51	9.5	< 2.0	-	3.0	170	5.0	0.66	1.50	0.07	0.57	< 0.03	2.07	0.03	0.09	2.7	-
11/17/03	12:10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.9
11/18/03	16:30	6.84	7.0	8.75	53	9.5	< 2.0	-	3.5	200	5.3	0.69	0.44	0.10	0.59	< 0.03	1.03	0.03	0.05	2.7	-

Stream Sampling Results

PA 3 - Passaic River, Mountain Avenue Bridge, Gillette - Intensive High Flow/Low Flow Station, Biomass Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	13:05	6.77	16.6	5.13	34	10.6	< 2.0	–	7.5	150	6.2	1.21	0.53	0.13	0.52	< 0.03	1.05	0.06	0.12	–	–
06/10/03	14:15	6.71	18.3	4.96	35	10.6	< 2.0	–	10.5	170	6.8	1.09	0.27	0.25	0.56	< 0.03	0.83	0.07	0.12	–	–
07/14/03	10:45	6.97	21.7	6.18	59	6.4	< 2.0	–	20	240	19.0	1.36	1.13	0.10	1.07	< 0.03	2.20	0.19	0.29	1.3	–
07/15/03	13:00	7.00	22.8	5.79	61	6.6	< 2.0	–	40	240	12.0	1.93	0.78	0.19	1.12	< 0.03	1.90	0.17	0.35	< 1.0	–
07/16/03	15:42	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2.67
08/05/03	13:50	6.95	24.7	5.73	42	8.8	< 2.0	–	47	190	45.0	2.34	0.70	0.18	1.10	< 0.03	1.80	0.14	0.21	–	–
08/06/03	11:55	5.93	22.7	4.97	34	8.1	< 2.0	–	48	110	47.0	2.80	1.68	0.17	0.67	< 0.03	2.35	0.09	0.23	–	–
08/24/03	17:00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3.12
08/25/03	12:00	7.11	22.2	6.06	76	10.6	< 2.0	–	33	240	29.0	2.96	2.62	0.16	1.16	< 0.03	3.78	0.27	0.41	1.3	–
08/26/03	12:45	7.28	23.9	5.98	75	9.9	< 2.0	–	31	250	26.0	2.61	0.32	0.18	1.32	< 0.03	1.64	0.20	0.20	< 1.0	–
09/30/03	16:04	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	9.86
11/03/03	9:55	6.80	15.1	4.18	42	12.4	< 2.0	–	5.0	140	5.3	0.82	1.64	< 0.05	0.50	< 0.03	2.14	0.06	0.12	–	–
11/04/03	6:15	6.51	13.8	3.82	46	13.1	< 2.0	–	4.0	170	4.4	0.85	2.07	0.06	0.46	< 0.03	2.53	0.08	0.15	–	–
11/17/03	11:30	6.88	6.9	9.81	57	7.8	< 2.0	–	4.5	200	4.9	0.61	0.64	0.09	1.05	< 0.03	1.69	0.15	0.20	3.3	–
11/17/03	11:40	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	10.6
11/18/03	15:15	7.39	8.3	11.21	61	7.7	< 2.0	–	0.5	210	4.3	0.57	0.18	0.12	1.36	< 0.03	1.54	0.13	0.19	1.3	–

Stream Sampling Results

PA4 - Passaic River, Main Street Bridge, Chatham - Intensive High Flow/Low Flow Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	12:15	6.90	16.2	9.09	34	10.0	< 2.0	–	15.0	150	8.3	1.47	0.79	0.12	0.62	< 0.03	1.41	0.07	0.17	–	–
06/10/03	13:00	6.97	18.0	6.67	36	10.3	< 2.0	–	17.0	150	9.0	1.49	0.34	0.32	0.63	< 0.03	0.97	0.08	0.15	–	–
07/14/03	10:15	7.41	21.7	8.65	60	5.9	< 2.0	–	11.0	240	11.0	0.85	0.60	0.06	1.57	< 0.03	2.17	0.17	0.23	2.0	–
07/15/03	12:00	7.63	24.4	10.31	61	6.2	< 2.0	–	13.0	220	5.7	0.70	0.39	0.10	1.65	< 0.03	2.04	0.17	0.28	29.0	–
08/05/03	13:10	7.67	25.9	6.52	64	7.3	< 2.0	–	40	240	33.0	2.32	1.15	0.13	1.33	< 0.03	2.48	0.20	0.34	–	–
08/06/03	11:20	7.12	23.9	5.83	38	7.4	< 2.0	–	63	130	51.0	3.16	2.95	0.19	1.03	< 0.03	3.98	0.13	0.29	–	–
08/25/03	11:15	7.68	22.2	9.08	70	10.5	< 2.0	–	7.0	280	9.6	1.79	1.29	0.07	1.89	< 0.03	3.18	0.23	0.35	–	–
08/26/03	11:30	7.74	23.3	8.26	73	10.0	< 2.0	–	8.5	270	6.8	1.44	0.09	< 0.05	1.92	< 0.03	2.01	0.21	0.29	–	–
11/03/03	9:05	7.05	13.8	6.61	42	12.5	< 2.0	–	9.0	160	7.6	1.06	0.89	< 0.05	0.52	< 0.03	1.41	0.07	0.14	–	–
11/04/03	13:00	6.78	14.2	6.26	44	12.9	< 2.0	–	8.0	170	7.1	1.09	0.78	0.06	0.55	< 0.03	1.33	0.09	0.19	–	–
11/17/03	10:40	7.68	7.0	11.61	62	7.7	< 2.0	–	5.0	200	4.6	0.60	0.67	0.11	1.36	< 0.03	2.03	0.12	0.15	2.0	–
11/18/03	6:25	6.67	6.5	9.51	60	8.2	< 2.0	–	3.5	210	5.0	0.60	0.33	0.10	1.02	< 0.03	1.35	0.14	0.24	2.0	–

Stream Sampling Results

PA 5 - Passaic River, Eagle Rock Avenue Bridge, East Hanover - Intensive High Flow/Low Flow Station, Weekly Characterization Station, Biomass Station, SOD Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)	
06/03/03	14:30	6.82	16.2	5.32	35	9.9	< 2.0	–	11.0	140	13.0	1.33	0.75	0.17	0.86	< 0.03	1.61	0.14	0.20	–	–	
06/09/03	10:30	6.65	15.8	6.13	32	9.5	< 2.0	–	7.5	140	5.5	0.85	0.20	0.14	0.66	< 0.03	0.86	0.10	0.25	–	–	
06/10/03	11:20	6.85	17.5	5.49	36	9.8	< 2.0	–	9.5	160	7.2	0.82	0.41	0.34	0.67	< 0.03	1.08	0.12	0.17	–	–	
06/17/03	10:20	7.06	19.5	5.11	45	10.4	< 2.0	–	7.0	160	3.5	0.87	0.73	0.17	0.77	< 0.03	1.50	0.19	0.24	–	–	
07/01/03	13:30	6.90	24.9	3.33	61	12.8	2.2	–	9.0	210	7.8	1.80	1.09	0.31	1.06	< 0.03	2.15	0.35	0.47	–	–	
07/08/03	16:25	6.94	28.3	4.36	71	7.4	2.6	–	24	270	7.0	1.03	1.05	0.24	2.28	< 0.03	3.33	0.40	0.53	–	–	
07/14/03	12:40	7.16	23.5	4.92	64	6.1	< 2.0	–	22	280	20.0	1.28	1.10	0.24	2.14	< 0.03	3.24	0.24	0.38	2.7	2.89	
07/15/03	11:15	7.23	24.7	4.79	68	5.8	< 2.0	–	29	250	9.3	1.28	0.91	0.28	2.56	< 0.03	3.47	0.26	0.45	1.3	–	
07/22/03	12:30	7.22	24.0	5.50	57	5.4	< 2.0	–	28	270	23.0	1.17	1.22	0.33	2.42	< 0.03	3.64	0.26	0.45	–	–	
07/29/03	13:10	6.91	25.5	5.44	58	8.9	< 2.0	–	24	220	21.0	1.89	1.49	0.28	1.44	< 0.03	2.93	0.27	0.43	–	–	
08/05/03	12:08	6.84	26.1	4.67	57	6.5	< 2.0	–	15.0	240	16.0	1.02	1.09	0.12	1.74	< 0.03	2.83	0.26	0.31	–	–	
08/06/03	9:30	6.54	23.4	6.13	26	5.1	< 2.0	–	49	75	60.0	2.41	1.19	0.16	0.92	< 0.03	2.11	0.15	0.31	–	–	
08/14/03	–	–	–	–	–	–	–	0.41*	–	–	–	–	–	–	–	–	–	–	–	–	–	
08/19/03	13:00	6.91	24.5	4.29	60	13.0	< 2.0	–	13.0	200	17.0	3.18	1.27	0.23	1.10	< 0.03	2.37	0.36	0.52	–	–	
08/24/03	16:50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	< 0.67	
08/25/03	11:35	7.19	22.7	5.30	83	10.7	< 2.0	–	40	320	34.0	2.94	0.91	0.28	2.65	< 0.03	3.56	0.38	0.58	< 1.0	–	
08/26/03	10:00	7.14	22.6	5.34	82	9.8	< 2.0	–	11.0	300	31.0	2.54	0.56	0.29	3.26	< 0.03	3.82	0.40	0.64	< 1.0	–	
09/03/03	14:19	6.52	18.2	6.72	41	5.2	< 2.0	–	22	180	32.0	1.75	1.74	0.15	1.80	< 0.03	3.54	0.19	0.30	–	–	
09/08/03	12:55	7.23	21.2	7.44	60	7.6	< 2.0	–	40	250	25.0	2.02	1.01	0.13	2.01	< 0.03	3.02	0.25	0.40	–	–	
09/16/03	13:10	7.28	22.2	6.78	45	5.3	< 2.0	–	43	180	26.0	2.29	1.08	0.12	1.43	< 0.03	2.51	0.23	0.35	–	–	
09/24/03	14:00	7.08	20.1	5.72	42	6.3	< 2.0	–	12.0	180	14.0	1.53	1.12	< 0.05	1.19	< 0.03	2.31	0.16	0.28	–	–	
09/30/03	14:35	6.60	17.9	6.44	50	7.9	< 2.0	–	3.5	210	11.0	0.95	0.95	0.08	1.16	< 0.03	2.11	0.17	0.24	–	–	
09/30/03	15:00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	32.4	
10/07/03	13:30	6.88	12.3	9.43	63	8.7	< 2.0	–	7.0	240	14.0	1.00	0.99	0.11	2.29	< 0.03	3.28	0.28	0.38	–	–	
10/14/03	13:20	7.31	15.9	6.95	74	6.5	< 2.0	–	23	300	24.0	1.43	0.92	0.12	3.54	< 0.03	4.46	0.36	0.48	–	–	
11/03/03	15:45	6.73	15.5	5.37	43	11.4	< 2.0	–	4.5	140	5.6	0.76	0.67	< 0.05	0.58	< 0.03	1.25	0.11	0.17	–	–	
11/04/03	9:46	6.64	13.9	5.32	41	12.5	< 2.0	–	5.0	150	5.6	0.75	1.66	0.05	0.56	< 0.03	2.22	0.12	0.18	–	–	
11/05/03	–	–	–	–	–	–	–	0.29	–	–	–	–	–	–	–	–	–	–	–	–	–	
11/17/03	10:15	7.11	6.5	11.02	63	7.9	< 2.0	–	4.5	260	6.3	0.70	0.81	0.10	1.88	< 0.03	2.69	0.25	0.33	1.3	–	
11/17/03	10:32	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	16.2
11/18/03	12:39	6.87	7.5	10.52	65	7.7	< 2.0	–	4.5	240	5.6	0.75	0.55	0.18	2.15	< 0.03	2.70	0.28	0.35	2.7	–	

*single value

Stream Sampling Results

PA6 - Passaic River, Horseneck Road Bridge, Montville - Intensive High Flow/Low Flow Station, Biomass Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	11:55	6.97	16.8	6.15	32	7.0	< 2.0	–	3.0	170	3.0	0.50	0.42	0.15	0.65	< 0.03	1.07	0.10	0.17	–	–
06/10/03	12:10	6.63	18.1	5.60	35	7.5	< 2.0	–	5.5	180	3.2	0.48	0.46	0.27	0.67	< 0.03	1.13	0.12	0.17	–	–
07/14/03	11:50	7.18	22.6	5.54	69	4.8	< 2.0	–	20	320	18.0	1.15	0.57	0.26	2.87	< 0.03	3.44	0.47	0.66	2.0	0.89
07/15/03	10:10	7.12	22.0	5.74	72	5.0	< 2.0	–	32	320	4.7	1.38	0.88	0.34	3.47	< 0.03	4.35	0.52	0.77	< 1.0	–
08/05/03	12:50	6.79	25.2	5.35	49	5.3	< 2.0	–	27	220	21.0	1.21	1.12	0.15	1.34	< 0.03	2.46	0.25	0.34	–	–
08/06/03	10:39	7.03	24.3	6.21	40	6.3	< 2.0	–	30	140	25.0	1.24	14.80	0.24	1.00	< 0.03	15.80	0.19	0.30	–	–
08/24/03	15:25	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1.01
08/25/03	12:25	7.33	22.3	6.36	89	6.6	< 2.0	–	19.0	380	15.0	1.28	0.77	0.32	3.45	< 0.03	4.22	0.43	0.64	< 1.0	–
08/26/03	11:10	7.34	22.9	6.52	86	6.3	< 2.0	–	24	380	14.0	1.16	0.47	0.32	4.04	< 0.03	4.51	0.52	0.74	< 1.0	–
09/30/03	13:16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	90.3
11/03/03	14:49	6.81	15.5	5.68	44	9.2	< 2.0	–	3.0	160	3.9	0.43	0.54	< 0.05	0.59	< 0.03	1.13	0.09	0.15	–	–
11/04/03	10:46	6.52	14.3	5.34	49	9.8	< 2.0	–	2.0	160	3.7	0.45	1.31	< 0.05	0.62	< 0.03	1.93	0.13	0.18	–	–
11/17/03	11:35	7.17	8.3	10.36	69	5.8	< 2.0	–	3.5	300	4.1	0.52	0.68	0.18	2.18	< 0.03	2.86	0.37	0.43	2.0	–
11/17/03	11:42	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	11.6
11/18/03	11:30	7.06	9.0	10.25	68	5.6	< 2.0	–	6.0	280	5.8	0.61	0.44	0.22	2.23	< 0.03	2.67	0.40	0.45	2.0	–

Stream Sampling Results

PA7 - Passaic River, Passaic Avenue Bridge, Two Bridges - Intensive High Flow/Low Station, Weekly Characterization Station, Biomass Station,

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/03/03	13:15	6.84	15.6	5.21	33	7.2	< 2.0	–	9.5	150	4.8	0.68	1.11	0.19	0.65	< 0.03	1.76	0.12	0.21	–	–
06/09/03	13:00	7.03	16.4	4.87	35	7.6	< 2.0	–	3.0	150	2.3	0.46	0.31	0.12	0.61	< 0.03	0.92	0.11	0.19	–	–
06/10/03	16:40	6.69	18.4	5.46	34	7.6	< 2.0	–	10.5	160	3.5	0.47	0.34	0.29	0.61	< 0.03	0.95	0.13	0.17	–	–
06/17/03	13:15	6.89	19.5	5.18	38	7.6	< 2.0	–	6.0	170	1.9	0.49	0.62	0.09	0.68	< 0.03	1.30	0.17	0.21	–	–
07/01/03	14:30	6.95	24.3	3.92	56	9.4	< 2.0	–	6.0	250	5.7	1.40	0.97	0.27	1.01	< 0.03	1.98	0.38	0.47	–	–
07/08/03	14:50	6.94	27.1	4.84	67	6.5	< 2.0	–	16.0	280	5.2	0.67	0.83	0.20	2.30	< 0.03	3.13	0.40	0.51	–	–
07/14/03	14:05	7.24	24.0	5.44	67	5.3	< 2.0	–	14.0	300	13.0	0.70	0.89	0.22	2.61	< 0.03	3.50	0.35	0.45	4.0	42.3
07/15/03	11:55	7.21	24.1	5.55	70	5.4	< 2.0	–	20	330	2.9	0.73	0.57	0.23	2.81	< 0.03	3.38	0.42	0.58	2.7	
07/22/03	14:30	7.39	24.2	6.19	78	4.4	< 2.0	–	18.0	370	14.0	0.66	1.89	0.13	3.53	< 0.03	5.42	0.52	0.68	–	–
07/29/03	14:15	7.01	25.3	5.85	58	7.5	< 2.0	–	21	230	15.0	1.27	1.43	0.33	1.60	< 0.03	3.03	0.30	0.42	–	–
08/05/03	14:20	7.08	24.7	5.25	46	5.6	< 2.0	–	28	200	29.0	1.57	1.35	0.16	1.64	< 0.03	2.99	0.33	0.45	–	–
08/06/03	11:15	7.14	24.4	6.14	43	5.4	< 2.0	–	33	170	25.0	1.32	1.01	0.15	1.04	< 0.03	2.05	0.21	0.33	–	–
08/19/03	14:25	7.05	24.2	4.75	63	10.3	< 2.0	–	16.0	240	14.0	2.01	0.87	0.30	1.25	< 0.03	2.12	0.35	0.48	–	–
08/24/03	12:55	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	10.7
08/25/03	13:00	7.34	24.4	6.01	88	7.2	< 2.0	–	14.0	360	11.0	0.91	0.82	0.26	2.99	< 0.03	3.81	0.36	0.51	< 1.0	–
08/26/03	12:05	7.37	23.9	6.42	100	6.7	< 2.0	–	12.0	380	10.0	0.75	0.34	0.28	3.20	< 0.03	3.54	0.36	0.49	1.3	–
09/03/03	15:30	7.09	18.4	7.11	46	4.3	< 2.0	–	23	220	25.0	1.45	1.27	0.17	2.05	< 0.03	3.32	0.34	0.47	–	–
09/08/03	14:10	7.30	21.0	7.71	66	6.2	< 2.0	–	16.0	290	6.3	0.95	0.95	0.15	2.14	< 0.03	3.09	0.28	0.37	–	–
09/16/03	14:30	7.61	22.6	6.95	67	5.1	< 2.0	–	26	280	6.9	1.08	1.04	0.10	2.40	< 0.03	3.44	0.41	0.53	–	–
09/24/03	15:00	7.19	20.3	6.28	53	5.5	< 2.0	–	26	200	16.0	1.34	1.14	< 0.05	1.26	< 0.03	2.40	0.14	0.30	–	–
09/30/03	11:45	7.17	17.6	6.87	44	6.3	< 2.0	–	14.0	200	10.0	0.98	0.84	0.08	0.82	< 0.03	1.66	0.13	0.24	–	–
09/30/03	12:10	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	27.1
10/07/03	14:35	7.26	13.1	8.85	68	6.2	< 2.0	–	6.0	270	8.6	0.76	0.67	0.17	2.09	< 0.03	2.76	0.33	0.43	–	–
10/14/03	14:25	7.21	16.5	7.48	82	5.0	< 2.0	–	2.5	300	7.4	0.55	0.90	0.15	3.02	< 0.03	3.92	0.49	0.59	–	–
11/03/03	13:59	6.76	15.4	5.80	43	9.0	< 2.0	–	8.5	150	5.7	0.61	0.72	0.06	0.48	< 0.03	1.20	0.08	0.14	–	–
11/04/03	11:23	6.48	14.0	5.30	42	9.4	< 2.0	–	9.0	160	4.0	0.59	1.24	0.05	0.49	< 0.03	1.73	0.10	0.21	–	–
11/17/03	12:25	7.11	7.3	10.73	66	5.8	< 2.0	–	4.5	280	4.2	0.95	0.44	0.19	1.77	< 0.03	2.21	0.28	0.35	2.7	–
11/17/03	12:33	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	60.3
11/18/03	13:23	6.94	8.4	10.26	66	5.8	< 2.0	–	4.5	260	4.9	0.56	0.37	0.27	2.07	< 0.03	2.44	0.34	0.41	2.0	–

Stream Sampling Results

PA8 - Passaic River, Route 23 Bridge, Little Falls - Intensive High Flow/Low Flow Station, Biomass Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	13:30	6.61	17.2	6.37	33	6.4	< 2.0	–	4.0	160	2.7	0.40	0.37	0.12	0.64	< 0.03	1.01	0.08	0.14	–	–
06/10/03	12:45	6.96	18.9	6.24	34	7.2	< 2.0	–	7.5	170	3.0	0.41	0.41	0.30	0.63	< 0.03	1.04	0.10	0.16	–	–
07/14/03	14:45	7.30	23.8	6.54	66	4.7	< 2.0	–	10.0	330	7.7	0.48	1.12	0.16	2.59	< 0.03	3.71	0.35	0.44	9.3	4.01
07/15/03	13:15	7.38	24.3	7.03	67	5.2	< 2.0	–	13.0	310	3.1	0.53	0.91	0.15	2.81	< 0.03	3.72	0.35	0.49	5.3	–
08/05/03	14:50	6.91	25.0	5.88	56	5.5	< 2.0	–	20	240	12.0	0.85	1.29	0.12	1.63	< 0.03	2.92	0.24	0.26	–	–
08/06/03	11:51	6.82	24.6	6.69	49	5.2	< 2.0	–	30	190	19.0	1.04	0.88	0.14	1.07	< 0.03	1.95	0.15	0.27	–	–
08/24/03	11:40	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	4.01
08/25/03	14:15	7.38	23.8	6.92	75	5.7	< 2.0	–	8.0	300	6.8	0.63	0.57	0.18	2.52	< 0.03	3.09	0.28	0.39	4.7	–
08/26/03	12:45	7.29	23.9	6.81	80	5.6	< 2.0	–	7.5	320	6.4	0.53	0.26	0.16	2.74	< 0.03	3.00	0.29	0.38	2.0	–
09/30/03	10:50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	9.55
11/03/03	12:33	6.95	15.3	7.04	50	7.5	< 2.0	–	6.0	150	4.6	0.46	0.66	0.10	0.56	< 0.03	1.22	0.07	0.11	–	–
11/04/03	11:48	6.64	14.1	6.31	42	8.4	< 2.0	–	7.0	150	4.9	0.56	1.13	< 0.05	0.57	< 0.03	1.70	0.09	0.19	–	–
11/17/03	14:00	7.28	7.5	11.10	64	5.1	< 2.0	–	4.0	270	5.0	0.44	0.36	0.14	1.74	< 0.03	2.10	0.23	0.29	2.7	–
11/18/03	13:55	6.99	8.4	10.70	66	4.8	< 2.0	–	2.5	260	4.4	0.50	0.69	0.15	1.91	< 0.03	2.60	0.26	0.32	2.7	–
11/18/03	14:00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	14.7

Stream Sampling Results

PA9 - Passaic River, Glover Avenue Bridge, West Patterson - Intensive High Flow/Low Flow Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	13:55	6.83	16.9	9.01	33	6.1	< 2.0	–	4.0	160	3.2	0.43	0.35	0.13	0.67	< 0.03	1.02	0.07	0.15	–	–
06/10/03	15:10	6.96	18.4	8.86	34	6.2	< 2.0	–	8.0	160	2.8	0.45	0.28	0.08	0.67	< 0.03	0.95	0.09	0.16	–	–
07/14/03	15:40	7.48	24.2	7.48	67	4.5	< 2.0	–	6.5	330	5.0	0.32	1.25	0.10	2.47	< 0.03	3.72	0.30	0.37	8.7	–
07/15/03	14:35	7.72	25.2	8.88	65	5.5	< 2.0	–	12.0	290	2.7	0.36	0.53	0.19	2.57	< 0.03	3.10	0.34	0.44	7.3	–
08/05/03	15:50	7.08	24.9	6.89	54	4.5	< 2.0	–	19.0	240	15.0	0.92	1.00	0.11	1.52	< 0.03	2.52	0.21	0.29	–	–
08/06/03	13:53	7.00	24.7	7.52	47	5.6	< 2.0	–	28	190	20.0	1.04	0.76	0.19	1.13	< 0.03	1.89	0.16	0.27	–	–
08/25/03	15:00	7.38	24.4	8.48	75	5.7	< 2.0	–	5.0	310	5.9	0.49	0.66	0.09	2.38	< 0.03	3.04	0.30	0.41	6.7	–
08/26/03	15:10	7.68	24.7	8.45	86	5.3	< 2.0	–	5.0	330	4.6	0.43	0.15	< 0.05	2.61	< 0.03	2.76	0.29	0.40	–	–
11/03/03	11:20	6.96	14.9	9.79	42	7.0	< 2.0	–	7.5	150	5.7	0.53	1.16	0.08	0.58	< 0.03	1.74	0.07	0.12	–	–
11/04/03	13:56	6.95	13.9	9.58	43	7.5	< 2.0	–	10.0	160	5.1	0.52	0.24	< 0.05	0.62	< 0.03	0.86	0.09	0.14	–	–
11/17/03	15:05	7.28	7.6	11.90	63	4.5	< 2.0	–	2.5	260	3.4	0.39	0.29	0.17	1.76	< 0.03	2.05	0.24	0.32	–	–
11/18/03	17:28	7.21	8.5	11.24	65	4.6	< 2.0	–	2.5	220	3.7	0.45	0.28	0.14	1.96	< 0.03	2.24	0.29	0.36	–	–

Stream Sampling Results

PA10 - Passaic River, Morlott Avenue Bridge, Patterson - Intensive High Flow/Low Flow Station, Weekly Characterization Station; Biomass Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/03/03	13:50	7.46	16.3	8.98	31	5.4	< 2.0	-	16.0	150	7.7	0.92	0.99	0.13	0.66	< 0.03	1.65	0.07	0.21	-	-
06/09/03	14:50	7.27	17.4	9.93	34	5.7	< 2.0	-	9.0	160	2.9	0.50	0.49	0.11	0.69	< 0.03	1.18	0.07	0.15	-	-
06/10/03	16:10	7.29	18.4	9.68	34	6.0	< 2.0	-	10.0	160	3.2	0.52	0.39	0.34	0.69	< 0.03	1.08	0.09	0.15	-	-
06/17/03	14:20	7.34	20.1	9.14	39	6.4	< 2.0	-	14.0	160	2.5	0.53	0.65	0.09	0.77	< 0.03	1.42	0.12	0.18	-	-
07/01/03	15:20	7.00	24.6	7.94	53	7.4	< 2.0	-	6.0	220	4.5	1.00	0.93	0.17	1.09	< 0.03	2.02	0.26	0.34	-	-
07/08/03	13:35	8.02	27.5	9.74	65	4.5	< 2.0	-	12.0	280	3.0	0.44	0.45	0.05	1.91	< 0.03	2.36	0.25	0.34	-	-
07/14/03	16:15	8.09	24.2	9.56	71	4.4	< 2.0	-	2.5	360	3.3	0.21	0.96	0.06	2.70	< 0.03	3.66	0.31	0.34	8.7	3.56
07/15/03	15:10	8.28	25.4	10.14	70	5.5	2.0	-	8.5	330	2.1	0.25	1.10	0.15	2.65	< 0.03	3.75	0.29	0.39	9.3	-
07/22/03	15:05	7.75	24.4	8.44	62	5.1	< 2.0	-	11.0	310	10.0	0.50	1.08	0.07	2.42	< 0.03	3.50	0.32	0.46	-	-
07/29/03	14:47	8.02	26.7	9.15	57	6.4	< 2.0	-	9.5	250	8.0	0.64	1.31	0.19	1.40	< 0.03	2.71	0.22	0.32	-	-
08/05/03	16:45	7.14	24.7	6.89	50	4.5	< 2.0	-	15.0	230	17.0	0.91	0.65	0.16	1.40	< 0.03	2.05	0.21	0.29	-	-
08/06/03	14:30	7.48	24.8	8.15	44	5.7	< 2.0	-	31	190	24.0	1.21	1.26	0.17	1.19	< 0.03	2.45	0.16	0.32	-	-
08/19/03	15:05	7.45	25.2	7.00	60	9.4	< 2.0	-	12.0	230	7.0	1.10	0.68	0.14	1.25	< 0.03	1.93	0.26	0.36	-	-
08/24/03	9:55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.34
08/25/03	15:35	8.30	25.7	11.02	66	5.8	< 2.0	-	9.0	320	4.5	0.46	0.50	0.07	2.16	< 0.03	2.66	0.25	0.36	10.7	-
08/26/03	15:35	8.40	25.4	11.90	79	5.1	< 2.0	-	5.0	350	4.7	0.34	0.15	< 0.05	2.37	< 0.03	2.52	0.26	0.37	8.0	-
09/03/03	16:00	7.32	19.2	8.93	67	4.2	< 2.0	-	9.5	290	7.7	0.61	0.93	0.11	2.42	< 0.03	3.35	0.33	0.39	-	-
09/08/03	15:16	8.11	22.1	10.71	67	4.8	< 2.0	-	10.0	280	3.3	0.42	1.07	0.11	1.86	< 0.03	2.93	0.22	0.22	-	-
09/16/03	15:15	7.83	23.1	8.33	70	4.2	< 2.0	-	18.0	270	5.0	0.59	0.90	0.10	2.02	< 0.03	2.92	0.31	0.38	-	-
09/24/03	16:05	7.69	20.4	8.19	46	6.2	< 2.0	-	15.0	180	17.0	1.33	1.01	0.07	1.27	< 0.03	2.28	0.23	0.36	-	-
09/30/03	9:40	7.58	18.1	9.14	45	5.0	< 2.0	-	23	190	15.0	1.19	0.65	0.06	0.89	< 0.03	1.54	0.11	0.20	-	-
09/30/03	9:40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.3
10/07/03	15:20	7.61	14.0	10.72	61	4.9	< 2.0	-	6.0	250	6.2	0.57	0.55	0.08	1.65	< 0.03	2.20	0.21	0.28	-	-
10/14/03	15:15	8.02	16.7	12.02	75	4.5	2.0	-	10.0	280	6.5	0.43	0.80	0.05	2.33	< 0.03	3.13	0.28	0.36	-	-
11/03/03	10:40	7.10	15.3	11.31	41	7.6	< 2.0	-	7.5	150	11.0	0.59	1.89	0.05	0.61	< 0.03	2.50	0.07	0.15	-	-
11/04/03	14:36	7.20	14.0	11.22	44	7.6	< 2.0	-	8.5	160	5.2	0.58	1.45	< 0.05	0.62	< 0.03	2.07	0.09	0.14	-	-
11/17/03	15:35	7.45	7.5	12.42	63	4.6	< 2.0	-	3.5	280	3.1	0.38	0.64	0.12	1.89	< 0.03	2.53	0.24	0.27	2.0	-
11/17/03	15:49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	181
11/18/03	16:53	7.47	8.2	11.98	66	4.4	< 2.0	-	3.0	260	3.4	0.44	0.37	0.13	1.87	< 0.03	2.24	0.28	0.35	2.7	-

Stream Sampling Results

PA11 - Passaic River, Passaic above Dundee Dam - Intensive High Flow/Low Flow Station, Biomass Station, SOD Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	15:20	7.08	17.8	9.35	36	5.9	< 2.0	–	11.0	160	1.3	0.74	0.53	0.14	0.69	< 0.03	1.22	0.07	0.19	–	–
06/10/03	15:50	7.30	18.9	9.27	34	6.2	< 2.0	–	12.5	170	4.6	0.58	1.88	0.35	0.70	< 0.03	2.58	0.09	0.16	–	–
07/14/03	16:40	8.29	25.5	10.41	72	4.4	< 2.0	–	3.5	350	3.9	0.20	0.90	0.05	2.31	< 0.03	3.21	0.28	0.38	17.4	4.34
07/15/03	15:30	8.60	26.4	12.11	73	5.1	3.0	–	8.0	330	2.4	0.19	0.87	0.14	2.29	< 0.03	3.16	0.26	0.36	14.7	
07/24/03	–	–	–	–	–	–	–	1.44	–	–	–	–	–	–	–	–	–	–	–	–	–
08/05/03	16:13	6.96	24.7	6.09	46	4.1	< 2.0	–	20	190	18.0	0.82	0.79	0.15	1.28	< 0.03	2.07	0.18	0.25	–	–
08/06/03	15:05	6.93	24.7	7.51	49	4.9	< 2.0	–	18.0	180	13.0	0.63	3.41	0.10	1.15	< 0.03	4.56	0.16	0.16	–	–
08/24/03	9:05	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	5.12
08/25/03	16:00	8.61	25.9	11.74	73	6.9	2.5	–	9.0	320	6.9	0.62	0.55	0.07	1.90	< 0.03	2.45	0.20	0.36	20.0	–
08/26/03	16:10	8.86	26.1	10.58	81	5.9	3.2	–	5.5	320	7.3	0.52	0.85	< 0.05	1.74	< 0.03	2.59	0.16	0.36	12.7	–
09/30/03	8:52	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	22.8
11/03/03	9:55	6.94	14.2	11.00	42	6.9	< 2.0	–	14.0	140	10.0	0.80	1.31	0.05	0.61	< 0.03	1.92	0.07	0.16	–	–
11/04/03	15:09	7.04	14.1	10.63	42	7.5	< 2.0	–	10.0	160	7.4	0.69	1.04	< 0.05	0.63	< 0.03	1.67	0.09	0.18	–	–
11/05/03	–	–	–	–	–	–	–	0.41	–	–	–	–	–	–	–	–	–	–	–	–	–
11/17/03	16:20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	31.5
11/17/03	16:25	7.38	7.4	11.88	63	4.9	< 2.0	–	4.5	280	3.6	0.41	0.59	0.17	1.66	< 0.03	2.25	0.21	0.27	3.3	–
11/18/03	16:17	7.19	8.1	11.44	65	4.3	< 2.0	–	4.0	260	4.9	0.48	0.38	0.12	1.80	< 0.03	2.18	0.23	0.27	2.0	–

Stream Sampling Results

PE1 - Pequannock River, Hamburg Turnpike Bridge, Riverdale - Intensive High Flow/Low Flow Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	10:15	6.84	15.5	9.49	27	4.1	< 2.0	–	2.0	110	2.0	0.20	0.27	0.14	0.44	< 0.03	0.71	< 0.01	0.03	–	–
06/10/03	9:50	7.10	16.3	9.53	20	4.0	< 2.0	–	7.0	120	2.5	0.22	0.24	0.13	0.45	< 0.03	0.69	< 0.01	0.05	–	–
07/14/03	11:00	7.17	18.7	9.08	42	2.0	< 2.0	–	0.5	220	0.7	0.08	0.78	0.05	1.09	< 0.03	1.87	< 0.01	0.03	< 1.0	–
07/15/03	10:15	7.12	18.8	9.11	43	1.9	< 2.0	–	1.0	220	1.1	0.07	0.63	0.19	1.08	< 0.03	1.71	< 0.01	0.03	2.0	–
08/05/03	12:30	7.23	23.1	8.60	33	5.8	< 2.0	–	7.0	150	4.6	0.38	1.06	0.05	0.61	< 0.03	1.67	0.01	0.05	–	–
08/06/03	9:55	7.43	22.2	8.06	30	5.5	< 2.0	–	32	120	20.0	1.40	0.67	0.07	0.68	< 0.03	1.35	0.01	0.12	–	–
08/25/03	11:30	8.05	18.1	9.01	53	2.5	< 2.0	–	< 0.5	250	0.8	0.16	0.63	0.08	1.10	< 0.03	1.73	< 0.01	0.04	< 1.0	–
08/26/03	11:30	6.98	20.2	7.13	50	2.3	< 2.0	–	1.5	240	0.9	0.14	< 0.05	< 0.05	1.09	< 0.03	1.09	< 0.01	0.02	–	–
11/03/03	10:50	6.98	14.2	9.58	26	4.5	< 2.0	–	0.5	100	2.1	0.20	2.10	< 0.05	0.48	< 0.03	2.58	< 0.01	0.03	–	–
11/04/03	9:30	6.89	13.7	9.63	25	4.6	< 2.0	–	1.5	160	1.8	0.17	0.40	< 0.05	0.43	< 0.03	0.83	< 0.01	0.03	–	–
11/17/03	10:15	6.90	8.3	11.20	39	3.2	< 2.0	–	2.0	170	0.8	0.10	0.27	< 0.05	0.73	< 0.03	1.00	< 0.01	< 0.02	–	–
11/18/03	10:00	7.22	8.8	11.31	34	3.2	< 2.0	–	1.0	140	1.0	0.09	0.11	0.10	0.69	< 0.03	0.80	< 0.01	< 0.02	–	–

Stream Sampling Results

PE2 - Pequannock River, Riverdale Road Bridge, Pompton Lakes - Intensive High Flow/Low Flow Station, Weekly Characterization Station, Biomass Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/03/03	11:55	7.07	17.0	8.95	21	3.8	< 2.0	–	3.0	110	2.2	0.23	0.47	< 0.05	0.43	< 0.03	0.90	< 0.01	0.05	–	–
06/09/03	11:10	7.22	15.6	9.65	19	3.8	2.2	–	5.0	110	1.8	0.31	0.60	0.09	0.42	< 0.03	1.02	< 0.01	0.03	–	–
06/10/03	10:10	7.29	16.4	9.06	21	3.8	< 2.0	–	6.5	110	2.1	0.22	0.39	0.22	0.45	< 0.03	0.84	< 0.01	0.02	–	–
06/17/03	11:35	7.28	17.7	9.58	25	3.4	< 2.0	–	4.5	130	1.5	0.20	0.59	0.10	0.55	< 0.03	1.14	< 0.01	< 0.02	–	–
07/01/03	12:15	7.72	20.8	8.93	31	3.4	< 2.0	–	1.0	160	1.6	0.16	0.33	0.12	0.72	< 0.03	1.05	< 0.01	0.07	–	–
07/08/03	10:05	7.07	20.9	8.00	39	3.2	< 2.0	–	6.0	190	1.3	0.15	0.97	< 0.05	0.91	< 0.03	1.88	< 0.01	0.03	–	–
07/14/03	11:20	6.74	21.3	7.71	45	1.9	< 2.0	–	0.5	230	0.9	0.10	0.10	0.05	1.20	< 0.03	1.30	< 0.01	0.03	1.3	–
07/15/03	10:35	7.17	20.4	8.40	44	2.1	< 2.0	–	1.5	220	1.0	0.14	0.52	0.14	1.11	< 0.03	1.63	< 0.01	0.04	2.0	–
07/18/03	10:10	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	7.12
07/22/03	11:00	7.24	20.5	8.64	34	3.2	< 2.0	–	7.0	200	5.7	0.40	1.22	0.13	0.78	< 0.03	2.00	< 0.01	0.04	–	–
07/29/03	10:47	7.43	20.4	8.01	43	2.7	< 2.0	–	1.0	170	1.5	0.15	0.69	0.15	0.91	< 0.03	1.60	< 0.01	0.04	–	–
08/05/03	13:00	6.94	22.9	8.11	34	5.4	< 2.0	–	8.0	150	4.5	0.38	0.15	0.06	0.66	< 0.03	0.81	0.01	0.05	–	–
08/06/03	11:20	7.12	22.7	7.49	31	5.0	< 2.0	–	17.0	140	13.0	0.91	2.22	0.07	0.66	< 0.03	2.88	0.01	0.10	–	–
08/19/03	11:30	7.48	20.3	8.28	42	2.8	< 2.0	–	3.5	190	1.6	0.21	0.23	0.08	0.91	< 0.03	1.14	0.01	0.03	–	–
08/24/03	13:09	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.56
08/25/03	13:00	7.32	19.8	8.42	47	2.6	< 2.0	–	1.0	250	1.2	0.26	0.45	0.07	1.04	< 0.03	1.49	< 0.01	0.04	1.3	–
08/26/03	12:00	6.93	20.6	8.03	47	3.0	< 2.0	–	2.0	250	1.2	0.16	< 0.05	< 0.05	1.07	< 0.03	1.07	< 0.01	0.03	< 1.0	–
09/03/03	12:15	6.98	17.2	8.97	41	3.6	< 2.0	–	1.5	210	3.6	0.30	0.79	0.05	1.10	< 0.03	1.89	0.01	0.03	–	–
09/08/03	11:25	7.46	18.8	9.87	46	3.0	< 2.0	–	4.5	200	1.1	0.16	1.29	0.08	1.00	< 0.03	2.29	< 0.01	< 0.02	–	–
09/16/03	11:30	6.99	20.9	8.20	37	4.3	< 2.0	–	24	190	18.0	1.19	0.76	0.05	0.70	< 0.03	1.46	0.02	0.10	–	–
09/24/03	12:35	7.55	20.0	8.68	32	4.6	< 2.0	–	8.5	100	4.7	0.60	1.16	< 0.05	0.43	< 0.03	1.59	< 0.01	0.07	–	–
09/30/03	9:15	7.46	15.8	9.18	28	4.4	< 2.0	–	4.5	130	3.1	0.41	0.92	0.05	0.50	< 0.03	1.42	< 0.01	0.04	–	–
09/30/03	9:17	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	11.1
10/07/03	12:05	6.97	11.9	10.76	44	3.2	< 2.0	–	0.5	180	2.9	0.24	1.10	0.11	0.80	< 0.03	1.90	< 0.01	< 0.02	–	–
10/14/03	12:10	7.19	13.8	9.66	47	3.1	< 2.0	–	1.0	210	3.2	0.30	0.53	0.19	0.82	< 0.03	1.35	< 0.01	0.04	–	–
11/03/03	11:15	6.89	14.3	9.47	25	4.4	< 2.0	–	1.5	100	2.4	0.18	0.28	< 0.05	0.45	< 0.03	0.73	< 0.01	0.04	–	–
11/04/03	9:45	6.96	13.7	9.40	29	4.4	< 2.0	–	1.0	100	1.7	0.19	1.07	< 0.05	0.46	< 0.03	1.53	< 0.01	0.02	–	–
11/17/03	10:30	6.73	8.4	11.00	38	3.0	< 2.0	–	2.5	180	1.1	0.12	0.95	< 0.05	0.80	< 0.03	1.75	< 0.01	< 0.02	2.7	–
11/18/03	10:30	7.07	8.9	11.07	36	3.3	< 2.0	–	3.0	140	1.4	0.13	0.09	0.07	0.78	< 0.03	0.87	< 0.01	0.04	1.3	–
11/18/03	11:12	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	15.3

Stream Sampling Results

PK1 - Peckman River, McBride Avenue, West Patterson - Intensive High Flow Station, Biomass Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	16:00	7.53	18.8	8.84	74	4.0	< 2.0	-	4.0	390	1.9	0.23	0.28	0.26	3.11	< 0.03	3.39	0.55	0.66	-	-
06/10/03	14:40	7.67	20.7	9.06	76	4.0	< 2.0	-	6.0	410	2.1	0.21	0.57	0.44	2.87	< 0.03	3.44	0.62	0.66	-	-
07/14/03	15:15	7.91	21.6	9.45	70	3.6	< 2.0	-	1.5	430	2.2	0.16	0.33	0.08	4.76	< 0.03	5.09	1.04	1.30	1.3	18.3
07/15/03	14:15	7.91	23.6	9.31	82	4.7	< 2.0	-	4.0	400	1.2	0.16	0.55	0.16	4.84	< 0.03	5.39	1.30	1.30	1.3	-
08/05/03	15:30	7.26	23.1	7.32	79	4.9	< 2.0	-	7.0	350	10.0	0.45	0.86	0.06	3.03	< 0.03	3.89	0.62	0.72	-	-
08/06/03	13:27	7.12	23.6	7.84	63	5.1	< 2.0	-	14.0	240	12.0	0.53	0.66	0.16	1.83	< 0.03	2.49	0.41	0.47	-	-
08/24/03	10:55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.2
08/25/03	14:40	8.71	22.3	12.32	90	3.1	< 2.0	-	0.5	470	1.6	0.16	0.35	0.08	4.95	< 0.03	5.30	1.03	1.19	2.7	-
08/26/03	14:30	8.71	22.8	12.73	100	4.1	< 2.0	-	2.5	270	1.6	0.31	0.80	0.07	5.12	< 0.03	5.92	1.17	1.30	1.3	-
09/30/03	10:30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66.5
11/03/03	11:58	7.61	16.1	9.92	84	3.9	< 2.0	-	3.5	360	1.9	0.18	0.59	0.06	4.30	< 0.03	4.89	0.82	0.82	-	-
11/04/03	13:30	7.42	14.8	9.34	88	5.8	< 2.0	-	1.5	410	2.0	0.18	1.05	0.35	5.22	< 0.03	6.27	1.05	1.49	-	-
11/17/03	14:30	7.71	11.0	11.84	81	4.1	< 2.0	-	3.0	460	1.3	0.17	0.65	0.06	6.67	< 0.03	7.32	1.02	1.15	3.3	-
11/17/03	14:35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49.7
11/18/03	17:55	7.47	11.4	10.24	81	3.8	< 2.0	-	2.0	410	2.0	0.21	0.55	0.11	6.91	< 0.03	7.46	1.02	1.10	2.0	-

Stream Sampling Results

PO1 - Pompton River, Jackson Avenue Bridge (CR680), Pompton Plains - Intensive High Flow/Low Flow Station, Biomass Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	11:50	7.06	15.9	9.68	30	3.6	< 2.0	–	7.0	160	2.2	0.32	0.22	0.09	0.59	< 0.03	0.81	0.01	0.06	–	–
06/10/03	11:30	7.13	17.5	9.27	28	3.4	< 2.0	–	9.5	140	3.2	0.32	0.45	0.22	0.59	< 0.03	1.04	0.01	0.05	–	–
07/14/03	11:45	6.89	23.8	7.20	60	3.1	< 2.0	–	21	280	7.7	0.54	0.66	0.05	1.03	< 0.03	1.69	0.01	0.12	10.3	–
07/15/03	11:35	7.66	24.2	7.98	61	3.2	< 2.0	–	12.0	270	2.6	0.29	0.60	0.18	1.04	< 0.03	1.64	0.02	0.09	9.3	–
07/16/03	12:10	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	11.6
08/05/03	13:40	7.23	25.1	8.04	61	4.0	< 2.0	–	10.0	250	6.9	0.31	0.30	0.08	0.91	< 0.03	1.21	0.03	0.08	–	–
08/06/03	12:06	7.48	24.7	8.13	54	3.9	< 2.0	–	30	240	18.0	0.92	1.79	0.11	0.86	< 0.03	2.65	0.03	0.15	–	–
08/24/03	14:20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	4.67
08/25/03	13:15	7.52	22.6	8.66	60	3.0	< 2.0	–	5.5	270	2.5	0.23	0.72	0.13	0.86	< 0.03	1.58	< 0.01	0.06	2.0	–
08/26/03	12:45	7.39	23.1	8.29	60	3.0	< 2.0	–	3.0	260	2.1	0.25	0.11	0.08	0.91	< 0.03	1.02	< 0.01	0.05	< 1.0	–
09/30/03	10:40	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	12.7
11/03/03	11:45	6.90	14.4	9.58	37	4.1	< 2.0	–	2.5	130	2.7	0.25	0.50	0.06	0.60	< 0.03	1.10	0.01	0.06	–	–
11/04/03	10:15	7.01	13.8	9.72	37	4.0	< 2.0	–	4.5	140	2.3	0.23	0.34	0.05	0.64	< 0.03	0.98	0.02	0.05	–	–
11/17/03	10:45	6.96	7.2	11.57	50	3.0	< 2.0	–	1.0	210	1.9	0.21	0.44	< 0.05	0.94	< 0.03	1.38	0.03	0.05	4.0	–
11/18/03	11:15	7.30	7.8	11.68	51	2.8	< 2.0	–	3.5	190	2.8	0.24	0.12	0.09	0.95	< 0.03	1.07	0.03	0.08	2.7	–
11/18/03	12:00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	151

Stream Sampling Results

PO2 - Pompton River, Route 202 Bridge, Mountainview - Intensive High Flow/Low Flow Station, Biomass Station, SOD Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	12:30	7.15	16.1	9.26	29	3.6	< 2.0	–	7.0	150	2.1	0.36	0.10	0.10	0.56	< 0.03	0.66	< 0.01	0.07	–	–
06/10/03	12:15	6.98	17.2	8.88	30	4.4	< 2.0	–	9.0	170	3.0	0.31	0.16	0.10	0.58	< 0.03	0.74	0.01	0.04	–	–
07/14/03	13:15	6.96	22.0	6.76	61	2.0	< 2.0	–	11.0	220	8.1	0.49	0.33	0.07	1.01	< 0.03	1.34	0.02	0.08	9.3	–
07/15/03	12:20	7.01	22.5	7.92	62	2.9	2.1	–	16.0	280	3.8	0.50	0.94	0.09	0.85	< 0.03	1.79	< 0.01	0.10	10.7	–
07/18/03	22:50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	10.7
07/24/03	–	–	–	–	–	–	–	0.83	–	–	–	–	–	–	–	–	–	–	–	–	–
08/05/03	14:05	7.23	25.1	7.80	61	4.3	< 2.0	–	16.0	250	11.0	0.55	0.85	0.08	0.83	< 0.03	1.68	0.01	0.10	–	–
08/06/03	13:00	7.30	24.2	7.57	52	4.5	< 2.0	–	29	240	16.0	0.89	3.94	0.10	0.86	< 0.03	4.80	0.03	0.14	–	–
08/24/03	13:45	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2.00
08/25/03	14:15	7.56	23.0	7.34	62	3.7	< 2.0	–	13.0	300	8.6	0.61	0.61	0.11	0.87	< 0.03	1.48	< 0.01	0.07	2.7	–
08/25/03	–	–	–	–	–	–	–	0.48	–	–	–	–	–	–	–	–	–	–	–	–	–
08/26/03	13:45	7.20	23.1	7.59	66	3.2	< 2.0	–	10.0	400	7.0	0.60	0.19	0.12	0.87	< 0.03	1.06	0.01	0.08	1.3	–
09/30/03	12:20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	14.9
11/03/03	12:00	6.60	14.3	9.13	39	4.2	< 2.0	–	4.0	140	2.9	0.30	1.90	0.07	0.58	< 0.03	2.48	0.01	0.04	–	–
11/04/03	11:20	6.94	14.0	8.96	38	4.3	< 2.0	–	4.0	160	2.8	0.31	1.10	0.06	0.63	< 0.03	1.73	0.01	0.05	–	–
11/17/03	11:15	6.85	7.3	10.31	54	3.1	< 2.0	–	3.0	230	2.5	0.26	0.28	< 0.05	0.94	< 0.03	1.22	0.02	0.05	2.0	–
11/17/03	12:05	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	37.1
11/18/03	12:15	7.15	8.0	11.05	56	3.3	< 2.0	–	1.5	210	2.3	0.29	0.48	0.14	0.98	< 0.03	1.46	0.02	0.05	1.3	–

Stream Sampling Results

PO3 - Pompton River, Two Bridges Road, Two Bridges - Intensive High Flow/Low Flow Station, Weekly Characterization Station, Biomass Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/03/03	13:25	7.24	15.5	8.63	27	4.0	< 2.0	-	7.5	140	4.5	0.46	1.10	0.16	0.61	< 0.03	1.71	0.02	0.09	-	-
06/09/03	12:25	7.22	16.1	9.13	32	3.6	< 2.0	-	6.0	140	2.0	0.30	0.52	0.07	0.65	< 0.03	1.17	0.01	0.06	-	-
06/10/03	12:35	6.95	17.2	8.53	30	3.9	< 2.0	-	8.5	170	3.2	0.44	0.25	0.24	0.70	< 0.03	0.95	0.02	0.07	-	-
06/17/03	13:25	7.22	19.2	8.83	33	4.0	< 2.0	-	10.0	160	2.8	0.37	0.80	0.10	0.77	< 0.03	1.57	0.02	0.05	-	-
07/01/03	14:10	7.50	23.3	8.24	45	4.0	< 2.0	-	6.0	200	4.4	0.48	0.60	0.13	1.02	< 0.03	1.62	0.05	0.13	-	-
07/08/03	15:15	6.93	26.1	6.41	56	3.0	< 2.0	-	10.0	250	3.5	0.41	1.85	0.12	1.47	< 0.03	3.32	0.11	0.17	-	-
07/14/03	13:30	7.04	23.0	6.77	59	3.2	< 2.0	-	6.5	300	6.2	0.42	0.37	0.09	1.89	< 0.03	2.26	0.17	0.25	7.3	-
07/15/03	12:35	7.01	23.2	8.90	62	3.3	2.5	-	14.0	290	3.6	0.45	0.82	0.11	1.70	< 0.03	2.52	0.10	0.21	13.4	-
07/18/03	23:20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.01
07/22/03	14:05	7.53	23.1	7.52	55	4.0	< 2.0	-	16.0	270	11.0	0.60	1.55	0.11	1.36	< 0.03	2.91	0.06	0.15	-	-
07/29/03	13:55	7.34	25.7	7.28	58	3.9	< 2.0	-	7.5	240	6.8	0.41	1.11	0.20	1.79	< 0.03	2.90	0.10	0.16	-	-
08/05/03	14:35	7.40	25.0	7.55	59	4.3	< 2.0	-	16.0	280	9.2	0.52	0.65	0.05	1.08	< 0.03	1.73	0.06	0.16	-	-
08/06/03	13:32	7.24	24.3	7.66	56	4.5	< 2.0	-	26	250	15.0	0.81	2.19	0.13	0.96	< 0.03	3.15	0.05	0.16	-	-
08/19/03	14:10	7.35	24.7	7.16	52	3.7	< 2.0	-	7.5	220	7.9	0.50	0.84	0.11	1.26	< 0.03	2.10	0.07	0.15	-	-
08/24/03	12:45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.33
08/25/03	14:45	7.51	23.7	7.58	58	3.4	< 2.0	-	9.0	170	5.8	0.43	0.53	0.09	0.48	< 0.03	1.01	< 0.01	0.20	< 1.0	-
08/26/03	14:30	6.96	24.6	5.66	58	4.2	< 2.0	-	10.0	290	5.8	0.50	0.20	0.20	1.75	< 0.03	1.95	0.13	0.22	1.3	-
09/03/03	15:12	7.15	19.6	7.94	67	3.6	< 2.0	-	5.5	260	5.4	0.46	0.69	0.11	1.20	< 0.03	1.89	0.05	0.09	-	-
09/08/03	13:45	7.56	21.7	9.01	67	3.6	< 2.0	-	7.0	290	5.0	0.39	1.01	0.07	1.89	< 0.03	2.90	0.11	0.19	-	-
09/16/03	14:10	7.57	22.1	7.83	49	3.6	< 2.0	-	17.0	210	11.0	0.77	0.87	0.07	1.10	< 0.03	1.97	0.08	0.13	-	-
09/24/03	14:35	7.58	20.0	8.64	45	4.2	< 2.0	-	17.0	200	9.7	0.74	1.16	0.06	0.87	< 0.03	2.03	0.04	0.16	-	-
09/30/03	11:35	7.41	17.4	9.09	37	4.4	< 2.0	-	9.0	170	7.7	0.62	0.73	0.06	0.75	< 0.03	1.48	0.04	0.11	-	-
09/30/03	11:57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.0
10/07/03	14:15	7.39	13.3	10.34	50	3.8	< 2.0	-	3.5	210	3.6	0.38	0.50	0.06	1.30	< 0.03	1.80	0.09	0.13	-	-
10/14/03	13:55	7.55	15.9	10.18	60	3.5	< 2.0	-	8.5	250	7.5	0.58	0.67	< 0.05	1.59	< 0.03	2.26	0.10	0.15	-	-
11/03/03	12:30	6.33	14.1	8.93	38	4.1	< 2.0	-	4.0	150	2.9	0.28	1.83	0.05	0.70	< 0.03	2.53	0.03	0.06	-	-
11/04/03	11:45	6.85	14.3	8.59	38	4.0	< 2.0	-	3.5	160	3.3	0.33	0.64	< 0.05	0.77	< 0.03	1.41	0.03	0.08	-	-
11/17/03	11:40	6.78	7.3	10.69	54	2.7	< 2.0	-	2.5	230	2.2	0.28	5.99	< 0.05	1.24	< 0.03	7.23	0.07	0.08	3.3	-
11/17/03	12:41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.5
11/18/03	12:45	7.19	8.5	10.63	52	3.5	< 2.0	-	3.0	210	3.0	0.32	0.23	0.08	1.33	< 0.03	1.56	0.08	0.12	2.7	-

Stream Sampling Results

RA1 - Ramapo River, Route 17 Bridge, Mahway - Intensive High Flow/Low Station, Biomass Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	7:00	6.90	15.1	9.50	34	4.0	< 2.0	-	4.5	170	2.0	0.29	0.65	0.11	0.62	< 0.03	1.27	0.05	0.08	-	-
06/10/03	6:45	6.99	15.6	9.19	36	4.1	< 2.0	-	8.5	180	2.9	0.33	0.38	0.32	0.68	< 0.03	1.06	0.05	0.09	-	-
07/14/03	8:25	7.12	19.6	7.07	94	2.8	< 2.0	-	2.5	400	2.9	0.19	2.06	0.16	1.53	< 0.03	3.59	0.15	0.19	4.7	-
07/15/03	7:45	7.10	19.2	8.29	96	2.6	< 2.0	-	2.5	390	1.3	0.19	0.71	0.28	1.60	< 0.03	2.31	0.15	0.22	2.7	-
07/16/03	11:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.45
08/05/03	10:00	6.71	23.4	7.92	57	4.1	< 2.0	-	14.0	230	11.0	0.62	0.54	0.08	1.10	< 0.03	1.64	0.15	0.21	-	-
08/06/03	8:10	6.80	21.7	7.89	45	4.9	< 2.0	-	48	200	30.0	1.91	1.44	0.10	0.80	< 0.03	2.24	0.09	0.29	-	-
08/24/03	10:35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.00
08/25/03	9:45	7.04	19.7	7.35	97	2.7	< 2.0	-	4.0	390	1.7	0.13	0.86	0.13	1.67	< 0.03	2.53	0.14	0.20	2.0	-
08/26/03	8:45	7.65	20.6	8.96	100	2.9	< 2.0	-	3.5	440	1.5	0.13	0.11	0.10	1.73	< 0.03	1.84	0.16	0.21	2.0	-
09/30/03	8:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.6
11/03/03	8:30	6.84	13.2	9.40	41	4.0	< 2.0	-	2.0	160	1.2	0.19	0.40	0.06	0.70	< 0.03	1.10	0.04	0.07	-	-
11/04/03	7:15	6.53	13.0	10.20	46	3.3	< 2.0	-	0.5	170	1.7	0.18	0.40	0.06	0.70	< 0.03	1.10	0.04	0.04	-	-
11/17/03	8:00	7.43	7.0	11.72	63	2.6	< 2.0	-	2.0	220	1.1	0.14	0.17	< 0.05	0.97	< 0.03	1.14	0.04	0.04	1.3	-
11/18/03	7:45	7.00	7.6	11.68	65	2.7	< 2.0	-	1.5	240	1.9	0.16	0.13	0.07	1.03	< 0.03	1.16	0.06	0.07	1.3	-
11/18/03	10:40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.4

Stream Sampling Results

RA2 - Ramapo River, Doty Road Bridge, Oakland - Intensive High Flow/Low Flow Station, SOD Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	7:40	6.77	15.3	8.81	34	4.0	< 2.0	–	4.5	150	2.7	0.45	0.40	0.10	0.70	< 0.03	1.10	0.04	0.09	–	–
06/10/03	7:25	7.05	16.0	8.53	34	3.9	< 2.0	–	10.0	160	4.0	0.41	0.44	0.41	0.74	< 0.03	1.18	0.05	0.09	–	–
07/14/03	9:20	7.35	22.4	7.17	79	2.7	< 2.0	–	3.5	350	5.2	0.19	0.47	0.11	1.33	< 0.03	1.80	0.07	0.13	1.3	–
07/15/03	8:15	7.34	22.1	8.62	81	2.8	2.3	–	3.5	350	1.5	0.20	0.87	0.17	1.28	< 0.03	2.15	0.07	0.15	2.7	–
07/24/03	–	–	–	–	–	–	–	0.86	–	–	–	–	–	–	–	–	–	–	–	–	–
08/05/03	10:40	6.86	24.2	7.04	64	3.6	< 2.0	–	8.5	260	7.4	0.37	0.39	0.11	1.06	< 0.03	1.45	0.09	0.13	–	–
08/06/03	8:45	7.07	22.8	6.78	45	4.2	< 2.0	–	14.0	180	12.0	0.62	1.40	0.16	0.96	< 0.03	2.36	0.08	0.16	–	–
08/25/03	10:30	8.15	23.3	11.21	74	3.4	4.8	0.82	8.0	330	4.5	0.21	0.64	0.09	0.87	< 0.03	1.51	0.02	0.14	10.7	–
08/26/03	9:45	7.43	23.4	9.93	81	3.8	7.0	–	13.0	300	7.1	0.30	1.32	0.07	0.83	< 0.03	2.15	0.01	0.28	–	–
11/03/03	9:15	6.87	13.2	9.00	41	3.9	< 2.0	–	3.0	150	2.2	0.23	0.23	< 0.05	0.69	< 0.03	0.92	0.03	0.06	–	–
11/04/03	8:00	6.62	13.3	10.36	42	3.6	< 2.0	–	2.0	170	2.3	0.25	0.20	< 0.05	0.74	< 0.03	0.94	0.03	0.07	–	–
11/17/03	8:45	7.13	6.6	11.05	61	2.7	< 2.0	–	1.5	240	1.4	0.20	0.23	< 0.05	1.09	< 0.03	1.32	0.04	0.07	–	–
11/18/03	8:15	6.90	7.3	11.25	60	2.8	< 2.0	–	2.0	220	1.7	0.24	0.27	0.07	1.15	< 0.03	1.42	0.04	0.09	–	–

Stream Sampling Results

RA3 - Ramapo River, Hamburg Turnpike Bridge, Pompton - Intensive High Flow/Low Flow Station, Weekly Characterization Station, Biomass Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/03/03	11:00	7.20	15.7	9.73	25	4.1	< 2.0	–	12.0	120	6.4	0.60	0.62	0.13	0.51	< 0.03	1.13	0.03	0.09	–	–
06/09/03	8:05	6.92	15.6	9.88	33	3.2	< 2.0	–	4.0	160	3.0	0.37	0.48	0.07	0.68	< 0.03	1.16	0.04	0.08	–	–
06/10/03	7:45	7.11	16.8	9.58	33	4.0	< 2.0	–	9.5	160	3.5	0.34	0.69	0.34	0.70	< 0.03	1.39	0.04	0.07	–	–
06/17/03	11:50	7.67	20.2	9.21	39	3.7	< 2.0	–	6.5	160	3.2	0.35	0.65	0.11	0.76	< 0.03	1.41	0.04	0.06	–	–
07/01/03	12:50	8.64	25.0	8.21	52	4.1	2.0	–	4.5	210	3.0	0.17	0.79	0.13	0.70	< 0.03	1.49	0.01	0.09	–	–
07/08/03	11:20	8.35	27.2	7.41	65	2.8	< 2.0	–	8.5	290	1.9	0.12	0.96	0.08	0.73	< 0.03	1.69	0.02	0.07	–	–
07/14/03	9:45	8.00	23.4	7.78	71	3.2	< 2.0	–	10.0	310	5.3	0.25	0.83	0.11	0.98	< 0.03	1.81	0.03	0.11	17.4	–
07/15/03	8:30	8.10	23.8	8.97	75	3.2	2.2	–	11.0	320	3.0	0.25	0.79	0.16	0.85	< 0.03	1.64	0.01	0.09	15.4	–
07/18/03	9:35	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	16.2
07/22/03	11:30	8.70	24.2	8.74	78	3.4	< 2.0	–	11.0	340	5.5	0.28	0.85	0.12	0.78	< 0.03	1.63	< 0.01	0.09	–	–
07/29/03	11:33	8.48	26.5	7.67	64	4.1	< 2.0	–	7.0	250	5.2	0.22	0.95	0.15	0.79	< 0.03	1.74	0.02	0.08	–	–
08/05/03	11:00	7.64	25.4	8.13	73	3.4	< 2.0	–	9.0	290	6.0	0.28	0.41	0.10	0.94	< 0.03	1.35	0.04	0.11	–	–
08/06/03	9:25	7.50	24.6	7.93	64	3.5	< 2.0	–	15.0	210	8.9	0.39	0.87	0.13	0.90	< 0.03	1.77	0.04	0.13	–	–
08/19/03	11:50	8.07	25.4	7.74	53	4.3	< 2.0	–	4.0	220	3.5	0.23	0.53	0.11	0.71	< 0.03	1.24	0.03	0.10	–	–
08/24/03	13:55	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.78
08/25/03	11:00	8.46	24.3	6.91	78	3.5	2.6	–	7.0	290	4.7	0.20	0.55	0.09	0.57	< 0.03	1.12	< 0.01	0.10	4.0	–
08/26/03	10:00	7.38	24.1	6.49	73	4.0	< 2.0	–	7.5	290	4.7	0.16	0.09	0.09	0.55	< 0.03	0.64	< 0.01	0.06	2.3	–
09/03/03	12:45	7.43	20.3	8.70	81	3.0	< 2.0	–	8.0	290	8.6	0.45	0.77	0.16	0.95	< 0.03	1.72	0.02	0.06	–	–
09/08/03	12:10	8.27	21.8	9.54	77	3.5	< 2.0	–	4.5	330	3.5	0.19	0.75	0.06	1.21	< 0.03	1.96	0.02	0.06	–	–
09/16/03	12:00	8.09	23.1	8.47	77	3.3	< 2.0	–	6.0	310	3.1	0.14	0.78	0.12	0.98	< 0.03	1.76	0.03	0.07	–	–
09/24/03	13:15	7.71	19.4	8.75	54	3.6	< 2.0	–	10.0	200	10.0	0.61	0.66	0.10	0.93	< 0.03	1.59	0.06	0.15	–	–
09/30/03	10:05	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	10.9
09/30/03	10:10	7.61	16.2	9.23	41	4.4	< 2.0	–	6.5	170	8.0	0.61	0.69	0.08	0.65	< 0.03	1.34	0.04	0.10	–	–
10/07/03	12:40	7.31	12.6	10.97	58	3.6	< 2.0	–	2.5	200	5.3	0.30	0.73	0.06	0.89	< 0.03	1.62	0.03	0.08	–	–
10/14/03	12:30	8.62	15.5	10.40	65	3.4	2.4	–	6.5	250	4.0	0.24	0.98	< 0.05	0.85	< 0.03	1.83	< 0.01	0.09	–	–
11/03/03	9:45	7.00	13.7	9.58	37	4.0	< 2.0	–	3.5	140	3.1	0.29	0.45	0.06	0.64	< 0.03	1.09	0.02	0.06	–	–
11/04/03	8:15	6.84	13.7	11.38	39	3.9	< 2.0	–	3.0	160	2.6	0.24	0.21	0.07	0.67	< 0.03	0.88	0.03	0.06	–	–
11/17/03	9:00	7.00	6.6	11.94	59	2.7	< 2.0	–	1.0	230	2.1	0.20	0.24	< 0.05	0.97	< 0.03	1.21	0.04	0.10	2.7	–
11/18/03	8:30	7.24	6.9	12.05	60	3.1	< 2.0	–	4.0	210	2.1	0.22	0.27	0.06	1.00	< 0.03	1.27	0.04	0.07	2.7	–
11/18/03	11:30	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	14.1

Stream Sampling Results

RO1 - Rockaway River, immediately downstream Boonton Dam - Intensive High Flow/Low Flow Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	11:10	7.79	17.0	9.90	31	3.9	< 2.0	–	2.0	150	1.3	0.16	0.31	< 0.05	0.47	< 0.03	0.78	< 0.01	0.03	–	–
06/10/03	10:10	7.77	17.6	9.84	29	4.0	< 2.0	–	6.5	160	2.9	0.17	0.66	0.13	0.46	< 0.03	1.12	< 0.01	0.03	–	–
07/14/03	10:45	7.15	18.9	9.25	31	4.1	< 2.0	–	1.0	150	1.9	0.18	0.68	0.11	0.59	< 0.03	1.27	< 0.01	0.02	2.0	–
07/15/03	9:00	7.26	18.6	9.10	33	4.0	< 2.0	–	5.0	150	1.5	0.19	0.26	0.18	0.64	< 0.03	0.90	0.02	0.05	< 1.0	–
07/16/03	NA	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	< 0.67
08/05/03	11:18	8.13	25.9	7.66	40	3.9	< 2.0	–	2.0	200	1.4	0.09	0.50	< 0.05	0.49	< 0.03	0.99	< 0.01	< 0.02	–	–
08/06/03	8:35	7.95	25.1	7.88	38	3.7	< 2.0	–	3.0	170	1.8	0.10	1.16	0.09	0.50	< 0.03	1.66	< 0.01	0.03	–	–
08/25/03	9:55	7.23	21.0	8.41	37	4.1	< 2.0	–	2.5	220	3.3	0.19	0.69	0.09	0.56	< 0.03	1.25	< 0.01	0.05	–	–
08/26/03	8:45	6.94	21.1	8.11	47	4.3	< 2.0	–	4.0	210	2.3	0.19	0.12	0.10	0.55	< 0.03	0.67	< 0.01	0.06	–	–
11/03/03	9:05	7.37	13.9	11.22	38	4.6	< 2.0	–	2.5	150	3.5	0.19	0.35	< 0.05	0.39	< 0.03	0.74	< 0.01	0.03	–	–
11/04/03	9:01	7.43	13.6	11.32	36	4.6	< 2.0	–	1.5	140	3.0	0.24	0.16	< 0.05	0.41	< 0.03	0.57	< 0.01	0.02	–	–
11/17/03	9:35	7.49	8.9	12.56	38	4.4	< 2.0	–	2.5	180	2.5	0.19	0.56	< 0.05	0.47	< 0.03	1.03	< 0.01	0.02	–	–
11/18/03	10:07	7.57	8.7	12.05	38	4.5	< 2.0	–	< 0.5	160	3.0	0.20	0.41	0.11	0.48	< 0.03	0.89	< 0.01	0.02	4.0	–

Stream Sampling Results

RO2 - Rockaway River, Bloomfield Avenue, Montville - Intensive High Flow/Low Flow Station, Biomass Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	11:35	7.19	17.0	8.46	33	4.2	< 2.0	–	2.5	170	1.7	0.19	0.41	0.14	0.51	< 0.03	0.92	0.02	0.06	–	–
06/10/03	10:40	7.16	17.9	8.34	32	4.6	< 2.0	–	8.0	180	2.2	0.22	0.33	0.22	0.59	< 0.03	0.92	< 0.01	0.05	–	–
07/14/03	12:15	7.26	20.3	5.93	69	4.3	< 2.0	–	4.0	310	4.1	0.25	0.72	0.31	2.92	< 0.03	3.64	0.37	0.42	1.3	7.56
07/15/03	10:38	7.25	20.1	6.39	71	4.6	< 2.0	–	6.5	320	1.5	0.25	0.53	0.18	3.26	< 0.03	3.79	0.71	0.78	< 1.0	–
08/05/03	13:45	7.65	25.7	7.16	44	4.0	< 2.0	–	12.0	200	5.5	0.33	0.30	0.09	0.53	< 0.03	0.83	0.06	0.11	–	–
08/06/03	10:13	7.12	25.0	6.86	42	4.1	< 2.0	–	13.0	160	8.3	0.39	1.21	0.12	0.55	< 0.03	1.76	0.04	0.11	–	–
08/24/03	16:15	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	26.5
08/25/03	12:05	7.50	20.0	7.07	86	4.2	< 2.0	–	3.5	360	3.3	0.27	0.64	0.37	3.13	< 0.03	3.77	0.54	0.67	< 1.0	–
08/26/03	10:45	7.33	21.0	6.89	96	4.4	< 2.0	–	5.5	360	2.3	0.23	0.34	0.26	3.02	< 0.03	3.36	0.83	0.97	< 1.0	–
09/30/03	13:45	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	22.6
11/03/03	15:20	7.35	15.6	9.56	45	5.1	< 2.0	–	4.0	180	2.9	0.24	0.44	0.05	0.50	< 0.03	0.94	0.02	0.10	–	–
11/04/03	10:20	7.06	13.9	9.17	43	4.9	< 2.0	–	4.5	160	4.0	0.34	0.30	< 0.05	0.51	< 0.03	0.81	0.04	0.07	–	–
11/17/03	11:05	7.29	9.3	10.92	54	4.8	< 2.0	–	2.5	220	2.2	0.20	4.22	0.22	0.88	< 0.03	5.10	0.13	0.16	2.7	–
11/17/03	11:12	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	30.4
11/18/03	11:50	7.05	9.4	10.92	51	3.9	< 2.0	–	3.0	200	2.4	0.22	0.16	0.11	1.03	< 0.03	1.19	0.18	0.21	2.2	–

Stream Sampling Results

WA1 - Wanaque River, Ringwood Avenue Bridge, Wanaque - Intensive High Flow/Low Flow Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	9:00	7.16	15.6	9.57	23	2.7	< 2.0	–	1.0	140	0.8	< 0.05	0.27	< 0.05	0.35	< 0.03	0.62	< 0.01	< 0.02	–	–
06/10/03	8:40	7.12	15.7	9.63	24	3.4	< 2.0	–	7.0	150	1.1	< 0.05	0.30	0.21	0.36	< 0.03	0.66	< 0.01	0.01	–	–
07/14/03	10:15	7.45	14.1	10.03	24	2.7	< 2.0	–	4.7	170	2.9	0.20	0.31	0.08	0.53	< 0.03	0.84	< 0.01	< 0.02	2.7	–
07/15/03	9:20	7.24	15.3	9.86	24	2.6	< 2.0	–	1.5	130	1.0	0.06	0.62	0.19	0.52	< 0.03	1.14	< 0.01	0.03	< 1.0	–
08/05/03	11:30	7.24	17.2	9.68	24	2.6	< 2.0	–	1.0	140	1.6	0.06	0.26	0.13	0.48	< 0.03	0.74	< 0.01	< 0.02	–	–
08/06/03	10:53	7.26	17.3	9.33	23	2.6	< 2.0	–	1.0	140	1.6	0.07	0.39	0.08	0.50	< 0.03	0.89	< 0.01	0.10	–	–
08/25/03	12:30	6.94	17.3	9.38	34	2.6	< 2.0	–	3.5	160	2.2	0.14	1.05	0.11	0.49	< 0.03	1.54	< 0.01	0.02	< 1.0	–
08/26/03	11:00	7.33	17.8	9.42	26	2.7	< 2.0	–	2.5	170	1.2	0.12	0.21	0.07	0.49	< 0.03	0.70	< 0.01	0.02	–	–
11/03/03	10:30	6.10	12.4	4.77	38	3.1	< 2.0	–	5.5	160	2.9	0.73	0.77	0.63	0.34	< 0.03	1.11	< 0.01	0.04	–	–
11/04/03	9:15	6.44	11.9	4.97	35	3.0	< 2.0	–	3.6	160	2.9	0.62	0.68	0.61	< 0.02	< 0.03	0.68	< 0.01	0.03	–	–
11/17/03	9:45	6.43	11.1	8.75	28	2.9	< 2.0	–	3.0	140	2.1	0.11	0.36	0.07	0.38	< 0.03	0.74	< 0.01	< 0.02	–	–
11/18/03	9:30	6.88	10.7	9.24	27	3.2	< 2.0	–	5.5	160	2.4	0.13	0.80	0.10	0.39	< 0.03	1.19	< 0.01	0.03	4.7	–

Stream Sampling Results

WA2 - Wanaque River, Hamburg Turnpike Bridge, Pompton Lakes - Intensive High Flow/Low Flow Station, Biomass Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	9:45	6.96	15.5	9.22	24	2.9	< 2.0	–	3.0	130	1.2	0.14	0.28	0.08	0.40	< 0.03	0.68	< 0.01	0.03	–	–
06/10/03	9:10	6.88	15.8	9.18	27	2.9	< 2.0	–	8.0	140	2.3	0.14	0.23	0.23	0.41	< 0.03	0.64	< 0.01	0.02	–	–
07/14/03	10:40	6.89	18.3	7.28	38	2.7	< 2.0	–	1.5	240	2.3	0.16	0.65	0.07	0.76	< 0.03	1.41	< 0.01	< 0.02	< 1.0	–
07/15/03	9:50	7.08	17.0	8.12	39	2.6	< 2.0	–	2.0	200	1.2	0.16	0.86	0.17	0.77	< 0.03	1.63	0.01	0.05	1.3	–
07/16/03	11:37	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	41.6
08/05/03	12:10	7.24	22.1	9.76	38	4.0	< 2.0	–	7.5	190	4.8	0.36	0.51	0.14	0.65	< 0.03	1.16	0.01	0.03	–	–
08/06/03	10:20	7.14	21.8	7.22	33	4.7	< 2.0	–	21	130	12.0	0.84	0.83	0.15	0.61	< 0.03	1.44	0.01	0.10	–	–
08/24/03	11:51	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1.56
08/25/03	11:45	6.85	18.5	7.89	34	3.0	< 2.0	–	1.0	220	1.6	0.16	0.66	0.08	0.77	< 0.03	1.43	< 0.01	0.05	1.3	–
08/26/03	10:30	7.29	19.0	7.58	46	2.7	< 2.0	–	1.0	230	1.5	0.14	0.78	< 0.05	0.90	< 0.03	1.68	< 0.01	0.05	< 1.0	–
09/30/03	8:50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	48.3
11/03/03	10:00	6.81	13.8	8.13	42	3.5	< 2.0	–	3.0	150	2.0	0.28	0.38	0.13	0.63	< 0.03	1.01	< 0.01	0.03	–	–
11/04/03	8:40	6.70	13.3	9.42	41	3.4	< 2.0	–	2.5	180	2.4	0.28	0.40	0.17	0.76	< 0.03	1.16	< 0.01	0.06	–	–
11/17/03	9:15	6.46	9.9	9.24	43	3.4	< 2.0	–	3.5	180	1.7	0.17	0.48	0.06	0.78	< 0.03	1.26	< 0.01	0.03	3.3	–
11/18/03	9:15	6.78	9.5	9.05	43	2.9	< 2.0	–	2.5	190	2.0	0.18	0.58	0.11	0.77	< 0.03	1.35	< 0.01	0.05	2.0	–
11/18/03	11:51	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	18.0

Stream Sampling Results

W11 - Whippany River, Lake Valley Road, Morristown - Intensive High Flow/Low Flow Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	10:10	7.31	14.1	8.75	25	2.9	< 2.0	–	7.5	170	3.3	0.54	0.30	0.06	1.05	< 0.03	1.35	< 0.01	0.03	–	–
06/10/03	10:00	7.17	14.7	9.12	32	2.7	< 2.0	–	10.5	190	4.7	0.50	0.27	0.12	1.12	< 0.03	1.39	0.01	0.03	–	–
07/14/03	8:00	7.23	17.6	9.53	41	1.8	< 2.0	–	6.5	210	6.2	0.52	0.64	0.07	1.13	< 0.03	1.77	0.02	0.03	< 1.0	–
07/15/03	9:20	7.27	17.7	9.67	40	2.0	< 2.0	–	8.0	250	2.1	0.46	0.22	0.10	1.12	< 0.03	1.34	0.01	0.08	< 1.0	–
08/05/03	11:25	7.26	22.9	7.31	44	3.5	< 2.0	–	8.3	170	6.7	0.69	0.40	0.10	0.86	< 0.03	1.26	0.02	0.03	–	–
08/06/03	9:15	6.93	20.6	6.29	33	6.2	< 2.0	–	25	110	20.0	1.40	1.76	0.15	0.70	< 0.03	2.46	0.02	0.10	–	–
08/14/03	–	–	–	–	–	–	–	0.34	–	–	–	–	–	–	–	–	–	–	–	–	–
08/25/03	9:15	7.43	17.2	8.63	55	1.8	< 2.0	–	2.0	210	2.3	0.33	1.15	0.08	1.12	< 0.03	2.27	0.01	0.03	–	–
08/26/03	9:30	7.25	19.4	7.88	47	1.9	< 2.0	–	6.0	200	2.8	0.37	< 0.05	< 0.05	1.26	< 0.03	1.26	0.01	0.06	–	–
10/30/03	–	–	–	–	–	–	–	0.37	–	–	–	–	–	–	–	–	–	–	–	–	–
11/03/03	7:00	7.09	13.5	9.03	56	2.9	< 2.0	–	3.5	220	2.0	0.34	0.71	< 0.05	1.44	< 0.03	2.15	< 0.01	0.04	–	–
11/04/03	9:30	6.67	13.3	8.77	56	2.6	< 2.0	–	1.0	210	1.3	0.32	0.63	< 0.05	1.30	< 0.03	1.93	0.01	0.06	–	–
11/17/03	8:35	7.41	7.0	10.62	53	1.9	< 2.0	–	1.5	220	1.2	0.29	0.44	< 0.05	1.08	< 0.03	1.52	< 0.01	0.03	–	–
11/18/03	9:30	7.52	8.1	10.15	51	2.4	< 2.0	–	1.0	190	1.3	0.30	0.43	0.10	1.07	< 0.03	1.50	< 0.01	0.10	2.7	–

Stream Sampling Results

WI2 - Whippany River East Hanover Avenue, Cedar Knolls - Intensive High Flow/Low Flow Station, Biomass Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	10:35	7.36	14.6	9.17	37	3.2	< 2.0	–	7.5	200	3.3	0.62	0.30	0.07	1.14	< 0.03	1.44	0.02	0.06	–	–
06/10/03	10:40	7.50	18.1	8.79	39	3.0	< 2.0	–	10.5	220	3.4	0.53	0.27	0.21	1.31	< 0.03	1.58	0.03	0.06	–	–
07/14/03	8:30	7.55	20.7	9.01	55	2.2	< 2.0	–	3.5	270	3.2	0.37	0.59	0.07	1.31	< 0.03	1.90	0.04	0.08	1.3	–
07/15/03	11:05	7.66	21.1	9.48	55	2.4	< 2.0	–	8.0	280	1.9	0.41	0.43	0.09	1.36	< 0.03	1.79	0.03	0.12	2.0	–
07/18/03	5:00 PM	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	8.70
08/05/03	11:50	7.62	24.3	7.41	47	3.3	< 2.0	–	10.0	210	8.8	0.67	0.63	0.09	1.10	< 0.03	1.73	0.07	0.12	–	–
08/06/03	10:00	7.29	21.9	6.80	32	6.0	< 2.0	–	26	120	22.0	1.61	2.76	0.18	0.77	< 0.03	3.53	0.04	0.16	–	–
08/24/03	16:05	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0.56
08/25/03	9:55	7.76	20.0	7.87	66	2.5	< 2.0	–	2.5	320	2.7	0.36	0.56	0.07	1.38	< 0.03	1.94	0.08	0.13	4.0	–
08/26/03	10:10	7.83	21.4	8.65	67	2.5	< 2.0	–	15.0	310	5.4	0.60	0.08	0.06	1.42	< 0.03	1.50	0.09	0.19	3.3	–
09/30/03	13:20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	13.2
11/03/03	7:30	7.58	14.2	9.32	61	3.2	< 2.0	–	1.0	280	2.2	0.43	0.51	0.07	1.28	< 0.03	1.79	0.03	0.05	–	–
11/04/03	10:10	7.62	14.2	8.94	63	3.4	< 2.0	–	1.0	280	1.9	0.42	1.71	0.07	1.33	< 0.03	3.04	0.04	0.09	–	–
11/17/03	9:10	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	94.4
11/17/03	9:15	7.71	7.4	11.78	62	2.6	< 2.0	–	3.0	260	1.4	0.28	0.21	0.06	1.57	< 0.03	1.78	0.03	0.05	2.7	–
11/18/03	9:50	7.52	8.2	10.99	64	2.4	< 2.0	–	2.5	250	1.9	0.32	0.28	0.08	1.54	< 0.03	1.82	0.03	0.08	1.3	–

Stream Sampling Results

W13 - Whippany River, Ridgedale Avenue, East Hanover - Intensive High Flow/Low Flow Station, Biomass Station, SOD Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
06/09/03	11:25	6.66	17.1	2.77	41	9.3	2.1	–	3.0	170	2.5	1.21	0.64	0.06	0.44	< 0.03	1.08	0.06	0.12	–	–
06/10/03	11:35	6.67	19.6	3.57	46	9.3	< 2.0	–	8.5	190	3.0	1.08	0.28	0.18	0.50	< 0.03	0.78	0.07	0.13	–	–
07/14/03	9:20	7.31	21.3	7.88	66	3.4	< 2.0	–	20	330	4.5	1.22	0.47	0.19	2.51	< 0.03	2.98	0.20	0.31	1.3	–
07/15/03	11:10	7.43	22.3	8.02	67	3.0	< 2.0	–	15.0	370	3.6	0.76	0.60	0.17	2.40	< 0.03	3.00	0.17	0.27	< 1.0	–
07/16/03	12:57	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	26.9
08/05/03	12:15	7.36	26.4	5.02	54	5.5	< 2.0	–	19.0	250	15.0	1.31	0.82	0.12	1.15	< 0.03	1.97	0.09	0.18	–	–
08/06/03	10:35	6.69	23.1	4.10	32	8.5	< 2.0	–	16.0	130	15.0	1.64	1.29	0.17	0.64	< 0.03	1.93	0.12	0.21	–	–
08/24/03	15:00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1.78
08/25/03	10:30	7.38	20.7	7.13	83	3.9	< 2.0	–	6.5	380	4.6	0.72	0.40	0.18	2.50	< 0.03	2.90	0.17	0.25	< 1.0	–
08/26/03	10:55	7.41	22.1	7.50	82	3.4	< 2.0	–	9.0	410	4.5	0.51	0.21	0.21	2.61	< 0.03	2.82	0.18	0.27	< 1.0	–
09/30/03	11:55	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	10.0
11/03/03	8:20	6.41	13.4	3.33	51	9.6	< 2.0	–	3.0	200	2.5	0.60	0.69	< 0.05	0.62	< 0.03	1.31	0.06	0.11	–	–
11/04/03	11:15	6.76	14.3	3.33	59	10.1	< 2.0	–	2.5	230	3.0	0.80	0.70	0.06	0.79	< 0.03	1.49	0.08	0.19	–	–
11/17/03	9:55	7.51	7.8	9.93	53	4.4	< 2.0	–	6.5	340	–	–	0.74	0.69	1.81	< 0.03	2.55	0.12	0.21	6.0	–
11/17/03	10:00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	19.3
11/18/03	13:35	7.32	9.2	9.31	85	4.5	< 2.0	–	6.5	320	4.9	0.77	0.86	0.73	1.70	< 0.03	2.56	0.08	0.17	1.3	–

Stream Sampling Results

CBB - Canoe Brook, Northfield Road (Route 508), Northfield - Baseflow/Reference Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
07/14/03	13:50	9.56	21.1	16.4	77	4.4	< 2.0	-	3.3	280	1.2	0.12	0.57	0.06	0.43	< 0.03	1.00	0.04	0.08	1.3	11.4
08/25/03	14:10	9.58	30.6	14.9	100	9.6	5.2	-	140	940	40.0	2.91	8.86	0.17	< 0.02	< 0.03	8.86	0.06	1.41	25.0	89.8
11/18/03	14:30	8.83	9.4	15.3	85	8.4	4.1	-	46	300	2.1	0.17	0.40	0.07	0.35	< 0.03	0.75	0.03	0.18	8.0	282

Stream Sampling Results

DRB - Dead River, Meeker Road, Pill Hill (Bernardsville Township) - Baseflow/Reference Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
07/14/03	10:55	7.43	19.4	7.9	130	7.4	4.7	-	9.5	280	5.6	0.37	0.20	0.07	0.61	< 0.03	0.81	0.03	0.13	< 1.0	57.5
08/25/03	11:20	7.58	19.4	7.3	150	5.1	2.4	-	< 0.5	310	18.0	0.12	3.54	0.11	0.52	< 0.03	4.06	0.02	0.12	2.3	1.78
11/17/03	15:00	7.59	9.4	10.6	120	2.8	< 2.0	-	2.5	250	< 0.5	0.05	0.10	< 0.05	0.43	< 0.03	0.53	0.01	0.03	< 1.0	9.30

Stream Sampling Results

HAB - Harmony Brook, Old Brookside Road, Mendham - Baseflow/Reference Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
07/14/03	12:25	7.23	18.2	8.2	22	1.4	< 2.0	-	1.5	220	1.0	0.11	0.26	0.07	2.15	< 0.03	2.41	< 0.01	< 0.02	< 1.0	10.4
08/25/03	13:10	7.28	17.6	8.6	32	1.7	< 2.0	-	< 0.5	210	0.6	0.06	2.54	0.09	2.26	< 0.03	4.80	< 0.01	< 0.02	< 1.0	0.45
11/17/03	7:55	6.97	7.9	10.6	23	1.8	< 2.0	-	1.5	180	< 0.5	0.06	0.40	< 0.05	1.96	< 0.03	2.36	< 0.01	< 0.02	2.0	11.2

Stream Sampling Results

PRB - Primrose Brook, Tempe Wick Road, Glen Alpin - Baseflow/Reference Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
07/14/03	11:30	7.02	17.7	9.3	29	1.7	< 2.0	-	3.0	100	1.4	0.60	0.16	0.10	0.64	< 0.03	0.80	0.01	0.04	< 1.0	2.89
08/25/03	11:50	7.27	18.8	8.2	39	2.7	< 2.0	-	1.5	110	2.5	0.70	3.28	0.12	0.57	< 0.03	3.85	0.01	0.04	1.3	1.54
11/17/03	6:30	6.52	7.1	11.8	37	2.2	< 2.0	-	2.0	100	1.6	0.44	0.48	< 0.05	0.49	< 0.03	0.97	0.02	0.05	< 1.0	15.1

Stream Sampling Results

RAB - Clove Brook, Stag Hill Road, West Mahwah - Baseflow/Reference Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
07/14/03	7:55	6.70	16.6	8.9	7	1.9	< 2.0	-	12.0	150	6.6	0.37	0.10	0.06	0.47	< 0.03	0.57	< 0.01	0.04	< 1.0	1.23
08/25/03	9:15	6.13	16.8	8.8	10	2.2	< 2.0	-	4.0	270	0.9	0.19	0.41	0.08	1.67	< 0.03	2.08	0.10	0.10	2.7	3.45
11/18/03	7:15	6.08	7.5	11.2	130	3.0	< 2.0	-	6.5	340	4.2	0.26	0.09	0.09	0.49	< 0.03	0.58	0.02	0.07	16.0	NA

Stream Sampling Results

SBB - Signac Brook, Preakness - Baseflow/Reference Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
07/14/03	12:40	7.32	20.0	8.7	85	2.0	< 2.0	–	1.0	330	1.3	0.15	0.37	0.08	0.89	< 0.03	1.26	0.01	0.11	< 1.0	8.92
08/25/03	13:45	7.97	21.5	10.7	95	2.1	< 2.0	–	0.5	330	0.8	0.13	0.30	0.07	0.79	< 0.03	1.09	< 0.01	< 0.02	< 1.0	12.2
11/18/03	11:45	7.48	9.3	11.3	89	1.8	< 2.0	–	0.5	310	1.0	0.12	0.25	0.08	1.14	< 0.03	1.39	< 0.01	0.03	2.0	–

Stream Sampling Results

TBB - Troy Brook, Troy Hills - Baseflow/Reference Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
07/14/03	11:20	7.83	20.5	8.3	110	3.2	< 2.0	-	3.0	350	4.0	0.26	0.26	0.10	0.63	< 0.03	0.89	0.06	0.09	2.7	5.89
08/25/03	11:00	8.03	19.1	9.1	110	2.4	< 2.0	-	2.0	360	4.2	0.27	0.18	0.07	0.55	< 0.03	0.73	0.04	0.09	1.3	< 0.67
11/18/03	10:44	7.92	8.7	12.6	130	3.00	< 2.0	-	6.5	340	4.2	0.26	0.09	0.09	0.49	< 0.03	0.58	0.02	0.07	16.0	73.4

Stream Sampling Results

WIB - Whippany River, Mendham - Baseflow/Reference Station

Date	Time	pH (s.u.)	Temp. (deg. C)	DO (mg/l)	Alk. (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	Average SOD (g/m ² -day)	TSS (mg/l)	TDS (mg/l)	Turbidity (NTUs)	Iron (mg/l)	TKN (mg/l)	NH ₃ -N (mg/l)	NO ₃ -N (mg/l)	NO ₂ -N (mg/l)	TN (mg/l)	D-OPO ₄ (mg/l)	TP (mg/l)	Phyto- plankton Chl-a (mg/m ³)	Avg. Peri- phyton Chl-a (mg/m ²)
07/14/03	12:00	7.46	17.3	8.9	58	1.3	< 2.0	–	1.5	170	1.5	0.16	0.06	0.06	2.14	< 0.03	2.20	0.02	0.02	< 1.0	0.45
08/25/03	12:20	7.56	17.9	8.8	78	1.4	< 2.0	–	< 0.5	180	0.7	0.39	2.33	0.06	2.23	< 0.03	4.56	0.02	0.02	< 1.0	145
11/17/03	7:25	7.49	8.4	10.4	70	1.2	< 2.0	–	2.0	170	< 0.5	0.07	0.19	< 0.05	2.02	< 0.03	2.21	< 0.01	0.02	1.3	382