

Stormwater Sampling Results

SW1 - Troy Meadow Road, Troy Hills - Wetland

Date	Time	Alkalinity (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	TSS (mg/l)	TDS (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)
Stormwater Event 1													
9/19/2003	0:11	51	13.9	14.0	12.0	170	1.35	0.40	0.99	< 0.03	2.34	0.15	0.27
9/19/2003	4:13	15	6.0	3.1	140	49	0.95	0.08	0.63	< 0.03	1.58	0.14	0.52
9/19/2003	8:06	32	10.5	2.5	16.0	92	1.20	0.05	1.06	< 0.03	2.26	0.11	0.20
9/19/2003	12:55	60	11.3	< 2.0	6.0	200	1.23	0.13	1.43	< 0.03	2.66	0.09	0.17
Stormwater Event 2													
10/14/2003	17:36	180	10.3	2.0	480	330	4.76	0.21	0.41	< 0.03	5.17	0.05	4.85
10/14/2003	23:43	17	11.5	9.7	64.0	87	1.70	0.24	0.64	< 0.03	2.34	0.19	0.40
10/15/2003	2:45	25	11.3	7.1	30.0	81	1.27	0.10	0.73	< 0.03	2.00	0.21	0.39
10/15/2003	6:25	49	11.4	5.3	20.0	160	1.55	0.06	1.01	< 0.03	2.56	0.14	0.28
10/15/2003	13:45	89	8.2	< 2.0	5.0	230	0.49	0.08	1.03	< 0.03	1.52	0.08	0.07
Stormwater Event 3													
10/26/2003	11:36	180	6.8	2.4	3,000	340	4.95	0.15	0.38	< 0.03	5.33	0.04	0.17
10/27/2003	0:30	39	28.2	4.3	15.0	130	1.74	0.24	0.62	< 0.03	2.36	0.31	0.55
10/27/2003	7:07	43	14.5	8.8	8.0	140	1.93	< 0.05	0.52	< 0.03	2.45	0.20	0.29
10/27/2003	15:00	20	11.8	6.3	92.0	52	3.36	< 0.05	0.43	< 0.03	3.79	0.18	0.43
10/28/2003	15:25	92	6.2	< 2.0	16.0	240	1.76	< 0.05	0.85	< 0.03	2.61	0.07	0.14

Stormwater Sampling Results

SW2 - Stag Mountain Road, West Mahwah - Forested

Date	Time	Alkalinity (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	TSS (mg/l)	TDS (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)
Stormwater Event 1													
9/19/2003	3:15	59	5.4	< 2.0	100	170	0.72	0.05	0.73	< 0.03	1.45	0.07	0.23
9/19/2003	4:30	77	6.8	< 2.0	29.0	310	0.72	< 0.05	0.89	< 0.03	1.61	0.07	0.16
9/19/2003	5:30	110	6.1	< 2.0	28.0	220	0.59	< 0.05	0.67	< 0.03	1.26	0.04	0.23
9/19/2003	6:50	46	2.8	< 2.0	14.0	120	0.85	< 0.05	0.49	< 0.03	1.34	0.02	0.07
Stormwater Event 2													
10/15/2003	0:20	59	4.8	2.9	26.0	120	0.92	< 0.05	0.69	< 0.03	1.61	0.02	0.11
10/15/2003	1:35	12	3.2	< 2.0	25.0	34	0.47	< 0.05	0.40	< 0.03	0.87	0.02	0.11
10/15/2003	2:45	6.0	1.9	< 2.0	2.0	35	0.28	< 0.05	0.36	< 0.03	0.64	0.01	0.07
10/15/2003	7:20	3.6	1.2	< 2.0	< 0.5	36	0.24	< 0.05	< 0.02	< 0.03	0.24	< 0.01	0.05
Stormwater Event 3													
10/27/2003	8:00	3.9	1.1	< 2.0	< 0.5	39	2.67	< 0.05	< 0.02	< 0.03	2.67	< 0.01	0.03
10/27/2003	13:00	4.6	1.6	< 2.0	1.5	41	0.37	< 0.05	< 0.02	< 0.03	0.37	< 0.01	< 0.02
10/27/2003	15:00	6.3	2.5	< 2.0	3.0	46	0.86	< 0.05	< 0.02	< 0.03	0.86	0.01	< 0.02
10/28/2003	3:00	3.7	2.0	< 2.0	3.0	31	0.41	< 0.05	< 0.02	< 0.03	0.41	< 0.01	< 0.02
10/28/2003	16:30	5.4	1.2	< 2.0	< 0.5	28	0.86	< 0.05	< 0.02	< 0.03	0.86	< 0.01	0.02

Stormwater Sampling Results

SW3 - Route 287 at Bridal Way, Franklin Lakes - Highway

Date	Time	Alkalinity (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	TSS (mg/l)	TDS (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)
Stormwater Event 1													
9/19/2003	2:30	72	3.7	< 2.0	13.0	150	0.53	< 0.05	1.39	< 0.03	1.92	0.07	0.11
9/19/2003	4:45	84	2.5	< 2.0	11.0	190	0.12	< 0.05	0.96	< 0.03	1.08	0.07	0.12
9/19/2003	6:25	87	2.4	< 2.0	7.0	200	0.14	< 0.05	0.73	< 0.03	0.87	0.08	0.13
9/19/2003	7:25	92	2.3	< 2.0	8.0	220	0.13	< 0.05	0.71	< 0.03	0.84	0.09	0.13
Stormwater Event 2													
10/15/2003	0:55	14	2.1	< 2.0	510	97	0.73	0.09	0.42	< 0.03	1.15	0.05	0.66
10/15/2003	2:10	20	2.9	< 2.0	610	92	0.75	0.09	0.49	< 0.03	1.24	0.04	0.52
Stormwater Event 3													
10/27/2003	15:30	66	1.9	< 2.0	6.5	180	0.27	< 0.05	0.71	< 0.03	0.98	0.07	0.09
10/27/2003	17:30	61	1.5	< 2.0	5.5	170	0.22	< 0.05	0.72	< 0.03	0.94	0.06	0.09
10/28/2003	3:30	100	1.9	< 2.0	6.0	270	0.33	< 0.05	0.64	< 0.03	0.97	0.09	0.10
10/28/2003	6:00	5.8	1.6	< 2.0	1.0	42	0.20	< 0.05	< 0.02	< 0.03	0.20	< 0.01	< 0.02

Stormwater Sampling Results

SW4 - Outfall downstream of the Jackson Avenue Bridge, Pompton Plains - Industrial/commercial

Date	Time	Alkalinity (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	TSS (mg/l)	TDS (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)
Stormwater Event 1													
9/19/2003	0:50	35	30.4	21.0	220	140	3.57	0.80	0.85	< 0.03	4.42	0.13	0.44
9/19/2003	2:15	9.2	2.9	< 2.0	80	56	0.66	0.15	0.43	< 0.03	1.09	0.04	0.14
9/19/2003	3:30	9.5	3.1	< 2.0	5.0	70	0.44	0.18	0.48	< 0.03	0.92	0.03	0.05
9/19/2003	6:15	6.4	3.8	< 2.0	2.5	72	0.38	0.20	0.43	< 0.03	0.81	0.02	0.06
Stormwater Event 2													
10/14/2003	23:09	140	55.0	37.0	280	490	5.51	0.68	3.05	< 0.03	8.56	< 0.01	0.75
10/15/2003	0:20	11	3.1	2.7	13.0	53	0.59	0.23	0.46	< 0.03	1.05	0.03	0.14
10/15/2003	1:20	5.3	1.9	< 2.0	44.0	71	0.20	0.13	0.38	< 0.03	0.58	0.02	0.08
10/15/2003	3:45	12	5.6	2.3	2.5	73	0.50	0.20	0.51	< 0.03	1.01	0.02	0.08
Stormwater Event 3													
10/27/2003	0:10	12	12.9	7.4	64	110	1.78	0.73	0.84	< 0.03	2.62	0.04	0.25
10/27/2003	7:30	14	4.1	< 2.0	6.5	81	0.60	0.20	0.61	< 0.03	1.21	0.02	0.05
10/27/2003	13:45	13	2.8	2.0	260	75	1.12	0.13	0.36	< 0.03	1.48	0.02	0.37
10/27/2003	14:50	4.3	2.0	< 2.0	51	60	0.58	0.12	0.38	< 0.03	0.96	0.02	0.11

Stormwater Sampling Results

SW5 - Inlet to detention basin, Canterbury Estates, Basking Ridge - Residential

Date	Time	Alkalinity (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	TSS (mg/l)	TDS (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)
Stormwater Event 1													
9/18/2003	19:10	100	4.0	< 2.0	2.5	270	0.67	0.06	2.10	< 0.03	2.77	0.02	0.06
9/18/2003	22:50	110	20.6	9.1	11,000	220	6.85	0.33	1.69	< 0.03	8.54	0.07	1.66
9/19/2003	3:50	20	21.0	3.1	2,300	150	3.59	0.18	0.66	< 0.03	4.25	0.18	1.33
9/19/2003	6:30	19	5.7	2.2	1,200	110	3.23	0.20	0.57	< 0.03	3.80	0.12	0.98
9/19/2003	13:34	110	5.2	< 2.0	44.0	290	0.72	0.06	1.65	< 0.03	2.37	0.03	0.12
Stormwater Event 2													
10/14/2003	23:45	13	9.6	4.7	380	70	1.93	0.21	0.62	< 0.03	2.55	0.19	0.59
10/15/2003	1:15	17	12.0	8.0	210	310	2.56	0.58	1.34	< 0.03	3.90	0.23	0.53
10/15/2003	1:50	18	12.2	7.1	140	91	2.44	0.52	1.32	< 0.03	3.76	0.21	0.48
10/15/2003	5:55	57	9.8	3.7	31.0	160	1.03	0.15	1.44	< 0.03	2.47	0.07	0.20
Stormwater Event 3													
10/26/2003	23:59	18	11.9	6.8	170	67	3.75	0.50	0.81	< 0.03	4.56	0.34	0.57
10/27/2003	8:25	41	6.7	3.0	32.0	160	1.49	0.21	0.82	< 0.03	2.31	0.17	0.24
10/27/2003	14:05	24	7.0	3.8	290	86	1.88	0.23	0.63	< 0.03	2.51	0.20	0.43
10/27/2003	23:45	51	4.9	< 2.0	30.0	190	1.19	0.11	1.02	< 0.03	2.21	0.11	0.16
10/28/2003	14:30	84	2.2	< 2.0	2.0	210	0.46	< 0.05	2.10	< 0.03	2.56	0.03	0.06

Stormwater Sampling Results

SW6 - Uniprise Center (Corporate Park), Bernardsville - Commercial

Date	Time	Alkalinity (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	TSS (mg/l)	TDS (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)
Stormwater Event 1													
9/18/2003	23:15	30	12.3	13.0	76.0	130	1.20	0.16	0.76	< 0.03	1.96	0.07	0.19
9/19/2003	4:45	30	4.5	< 2.0	15.0	110	0.36	0.09	0.53	< 0.03	0.89	0.03	0.07
9/19/2003	6:05	67	5.8	< 2.0	3.0	200	0.56	0.07	0.73	< 0.03	1.29	0.06	0.09
9/19/2003	14:15	120	7.9	< 2.0	57.0	410	0.71	< 0.05	0.89	< 0.03	1.60	0.07	0.12
Stormwater Event 2													
10/14/2003	19:35	250	6.1	< 2.0	24.0	270	0.78	0.08	1.14	< 0.03	1.92	0.07	0.14
10/15/2003	0:05	9.3	2.7	2.0	19.0	62	0.22	0.06	0.43	< 0.03	0.65	0.01	0.07
10/15/2003	0:55	9.9	2.2	< 2.0	9.5	67	1.14	0.13	0.39	< 0.03	1.53	0.01	0.11
10/15/2003	1:30	37	4.6	< 2.0	9.5	130	0.16	0.07	0.65	< 0.03	0.81	0.03	0.08
10/15/2003	5:40	14	7.7	< 2.0	3.0	360	0.45	< 0.05	1.03	< 0.03	1.48	0.05	0.11
Stormwater Event 3													
10/26/2003	23:40	18	14.5	9.3	5.5	56	7.05	0.69	0.69	< 0.03	7.74	0.67	0.69
10/27/2003	7:55	120	8.0	< 2.0	5.0	360	3.10	0.34	1.44	< 0.03	4.54	0.11	0.16
10/27/2003	13:45	28	9.6	4.2	23.0	84	1.94	0.29	0.58	< 0.03	2.52	0.09	0.19
10/28/2003	0:05	130	14.8	3.7	4.5	320	1.79	0.16	1.05	< 0.03	2.84	0.05	0.10
10/28/2003	14:50	160	10.8	< 2.0	3.0	490	0.90	0.09	1.21	< 0.03	2.11	0.04	0.09

Stormwater Sampling Results

SW7 - Young's Road at Glen Eagle, Harding Township - Low-density residential

Date	Time	Alkalinity (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	TSS (mg/l)	TDS (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)
Stormwater Event 1													
9/18/2003	18:20	71	1.1	< 2.0	1.0	240	0.41	< 0.05	2.38	< 0.03	2.79	< 0.01	< 0.02
9/18/2003	23:30	64	5.4	2.1	150	190	2.32	0.10	0.52	< 0.03	2.84	< 0.01	0.30
9/19/2003	0:44	56	4.8	2.2	54	110	0.85	0.07	1.32	< 0.03	2.17	0.01	0.11
9/19/2003	3:43	32	6.6	2.9	180	81	1.27	0.06	0.60	< 0.03	1.87	0.02	0.34
9/19/2003	7:47	47	4.9	< 2.0	52	120	0.69	0.06	0.96	< 0.03	1.65	0.01	< 0.02
9/19/2003	15:00	60	1.4	< 2.0	1.5	190	0.53	< 0.05	2.75	< 0.03	3.28	< 0.01	0.03
Stormwater Event 2													
10/14/2003	16:55	86	4.1	< 2.0	150	130	1.03	0.06	1.27	< 0.03	2.30	< 0.01	0.34
10/15/2003	0:55	31	8.4	5.3	72	120	0.13	< 0.05	0.53	< 0.03	0.66	0.02	0.16
10/15/2003	2:15	72	5.3	2.3	31.0	170	0.23	< 0.05	1.08	< 0.03	1.31	< 0.01	0.07
10/15/2003	3:45	78	3.8	< 2.0	11.0	180	0.24	< 0.05	1.14	< 0.03	1.38	< 0.01	0.08
Stormwater Event 3													
10/26/2003	12:05	91	6.7	2.4	1,500	170	2.62	0.06	0.72	< 0.03	3.34	< 0.01	0.62
10/26/2003	23:25	50	21.1	3.1	280	160	2.35	< 0.05	0.93	< 0.03	3.28	< 0.01	0.39
10/27/2003	7:35	77	3.5	< 2.0	41.0	190	0.61	< 0.05	1.10	< 0.03	1.71	< 0.01	0.03
10/27/2003	14:30	41	19.5	3.3	140	89	1.37	< 0.05	0.42	< 0.03	1.79	0.02	0.28
10/28/2003	0:15	51	8.7	5.9	33.0	140	0.90	0.11	1.59	< 0.03	2.49	0.03	0.11
10/28/2003	15:00	65	3.2	< 2.0	16.0	170	0.53	< 0.05	1.64	< 0.03	2.17	< 0.01	0.03

Stormwater Sampling Results

SW8 - Willow Street, Fairlawn - High-density urban

Date	Time	Alkalinity (mg/l)	TOC (mg/l)	CBOD ₅ (mg/l)	TSS (mg/l)	TDS (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)
Stormwater Event 1													
9/19/2003	1:45	5.3	4.6	2.4	8.5	45	0.81	0.26	0.44	< 0.03	1.25	0.04	0.11
9/19/2003	3:00	4.5	3.0	< 2.0	44.0	79	0.70	0.22	0.40	< 0.03	1.10	0.02	0.15
9/19/2003	4:00	3.8	1.8	< 2.0	46.0	93	0.40	0.12	0.40	< 0.03	0.80	0.01	0.13
9/19/2003	5:45	10	9.5	4.6	13.0	93	0.71	0.22	0.40	< 0.03	1.11	0.02	0.10
Stormwater Event 2													
10/14/2003	23:36	14	18.4	15.0	45.0	73	1.75	0.54	0.85	< 0.03	2.60	0.12	0.40
10/15/2003	0:53	8.0	5.3	3.3	10.0	63	1.00	0.20	0.44	< 0.03	1.44	0.06	0.15
10/15/2003	2:00	6.7	7.3	3.7	8.0	59	0.63	0.22	0.47	< 0.03	1.10	0.06	0.09
10/15/2003	6:30	15	10.1	3.1	2.5	47	0.76	0.21	0.56	< 0.03	1.32	0.06	0.09
Stormwater Event 3													
10/26/2003	23:30	27	106	17.0	82	230	9.01	2.59	2.72	< 0.03	11.73	0.22	0.67
10/27/2003	8:20	19	9.1	2.7	18	75	0.98	0.14	0.58	< 0.03	1.56	0.02	0.08
10/27/2003	14:15	6.9	2.7	2.1	41	86	0.73	0.11	0.37	< 0.03	1.10	0.01	0.10
10/27/2003	23:40	28	12.2	7.6	260	110	3.29	0.10	0.46	< 0.03	3.75	0.06	0.64