

Table S1. Summary data from all sampled storm events. Numbers in red text represent parameters which were reported as not detected, in which case the value represents half of the detection limit.

Storm Event	Start Date/Time	End Date/Time	Duration (hr)	Storm Event Flow (m ³)	Max Flow Rate (L/s)	Avg # Inf/Eff Samples	Contact Time (min)	Cumulative Flow (cf)
1	5/19/12 19:50	5/19/12 20:50	1.0	21.4	20.1	8.5	N/A	18,911
2	6/17/12 23:40	6/18/12 1:30	1.8	31.3	19.3	9.5	4.8	38,529
3	5/18/13 7:00	5/19/13 16:00	33.0	89.4	18.7	19	1.2	55,367
4	6/12/13 9:30	6/12/13 12:20	2.8	32.9	4.9	8.5	11.9	61,975
5	6/15/13 15:40	6/15/13 16:50	1.2	60.8	39.6	18.5	6.6	63,728
6	6/21/13 2:50	6/21/13 6:20	3.5	69.7	23.9	20	7.6	66,384
7	6/21/13 20:00	6/21/13 20:50	0.8	77.6	55.2	14	3.5	68,803
8	6/29/13 3:10	6/29/13 5:50	2.7	53.3	45.1	16.5	5.5	72,846
9	7/13/13 4:10	7/13/13 7:30	3.3	45.4	11.8	14.5	10.8	75,969
10	8/5/13 2:30	8/5/13 4:20	1.8	16.8	3.9	6.5	9.9	78,578
11	10/2/13 19:50	10/3/13 1:10	5.3	31.3	5.4	12	6.6	84,205
12	5/8/14 7:50	5/8/14 16:50	9.0	10.2	5.6	3	15.3	87,974
13	5/11/14 22:00	5/12/14 2:10	4.2	26.4	5.4	9	18.3	88,599
14	5/19/14 10:50	5/19/14 15:00	4.2	74.0	19.7	22.5	12.3	89,892
15	5/31/14 13:30	6/1/14 6:00	16.5	76.7	39.6	16.5	11.8	93,947
16	6/7/14 8:00	6/7/14 11:20	3.3	28.7	15.1	9	16.0	98,344
17	6/14/14 14:30	6/15/14 5:30	15.0	46.3	6.0	12.5	19.7	99,619
18	6/16/14 17:10	6/16/14 20:40	3.5	28.5	4.8	2.5	31.4	101,461
19	6/18/14 2:20	6/19/14 4:50	26.5	163.2	37.3	24	11.2	102,896
20	5/7/15 18:00	5/7/15 18:50	0.8	10.2	8.9	3.5	N/A	121,097
21	5/10/15 20:00	5/11/15 1:00	5.0	22.8	8.1	9	N/A	121,336
22	5/17/15 14:40	5/17/15 17:20	2.7	20.8	7.2	9	N/A	122,607
23	5/29/15 3:50	5/29/15 5:30	1.7	16.4	4.8	8	N/A	125,784
24	6/3/15 12:50	6/3/15 21:10	8.3	23.3	10.5	9.5	N/A	126,706
25	6/6/15 23:50	6/7/15 1:50	2.0	41.3	22.0	15	N/A	127,528
26	6/17/15 14:00	6/17/15 16:20	2.3	43.4	27.6	15	N/A	129,367
27	6/26/15 16:30	6/28/15 16:50	48.3	46.3	18.9	20.5	N/A	132,150
28	7/6/15 1:00	7/6/15 6:30	5.5	78.3	18.1	24	N/A	133,996
29	7/28/15 6:40	7/28/15 8:40	2.0	18.4	8.1	8	N/A	144,166
30	8/6/15 16:20	8/7/15 3:00	10.7	25.4	18.8	14	N/A	144,897
31	8/7/15 11:50	8/7/15 12:40	0.8	13.1	19.9	5.5	N/A	145,767
32	8/18/15 10:50	8/18/15 15:30	4.7	32.6	6.7	15	N/A	146,825
33	8/22/15 18:30	8/22/15 22:10	3.7	55.8	36.0	22	N/A	148,222
34	9/2/15 2:50	9/2/15 7:40	4.8	12.1	4.2	4.5	N/A	150,610
35	9/6/15 6:50	9/8/15 6:10	47.3	30.9	7.9	13	N/A	151,087
36	9/9/15 21:20	9/9/15 23:00	1.7	11.6	6.7	5	N/A	152,247
37	9/16/15 22:00	9/17/15 8:40	10.7	98.6	29.7	24	N/A	152,707
38	9/23/15 14:10	9/24/15 7:30	17.3	41.7	39.8	18.5	N/A	161,719
39	10/8/15 3:50	10/8/15 5:20	1.5	7.2	2.6	4	N/A	163,528
40	5/25/16 10:00	5/26/16 4:30	18.5	11.6	4.3	4.5	N/A	166,098
41	6/14/16 12:40	6/14/16 21:00	8.3	69.3	24.6	20.5	N/A	169,794
42	7/23/16 11:10	7/23/16 17:50	6.7	63.4	25.7	19.5	N/A	172,574
43	8/4/16 7:20	8/4/16 9:50	2.5	44.5	32.0	18	N/A	175,848

Table S1 (continued).

Storm Event	TP In (mg/L)	Dissolved P In (mg/L)	DRP In (mg P/L)	Chloride In (mg/L)	TSS In (mg/L)	TP Out (mg/L)	Dissolved P Out (mg/L)	DRP Out (mg P/L)	Chloride Out (mg/L)	TSS Out (mg/L)
1	0.360	0.300	0.210	no data	34.8	0.160	0.014	0.010	no data	37.8
2	0.150	0.014	0.038	no data	40.3	0.014	0.014	0.010	no data	17.7
3	0.98	0.34	0.26	6.3	160	0.081	0.015	0.010	9.6	21
4	0.29	no data	0.1	2.9	58	0.049	no data	0.014	4	8.5
5	0.49	0.082	0.061	1.1	350	0.21	0.049	0.034	2.1	150
6	0.49	0.13	0.16	2.2	170	0.18	0.019	0.046	4.9	78
7	0.38	0.09	0.09	2.8	200	0.31	0.091	0.048	2.2	180
8	0.12	0.063	0.048	0.42	110	0.11	0.055	0.036	3.5	48
9	0.16	0.085	0.073	3.3	18	0.056	0.034	0.024	3.5	16
10	0.29	0.12	0.15	2.9	70	0.081	0.02	0.015	22	9.5
11	0.68	0.22	0.34	3	190	0.063	0.015	0.032	3	4
12	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
13	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
14	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
15	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
16	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
17	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
18	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
19	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
20	0.740	no data	0.180	9.8	306	0.140	no data	0.001	48.7	27
21	0.380	no data	0.070	14.1	94	0.070	no data	0.026	18.8	5
22	0.400	no data	0.011	7.8	179	0.088	no data	0.001	17.8	16
23	0.370	no data	0.170	7.2	80	0.064	no data	0.032	13.7	7
24	0.760	no data	0.220	10.4	232	0.070	no data	0.001	13.2	14
25	0.270	no data	0.093	5.4	67	0.110	no data	0.030	5.5	19
26	0.220	no data	0.080	8.9	40	0.110	no data	0.035	5.1	28
27	0.210	no data	0.068	4.3	49	0.050	no data	0.005	4.4	15
28	0.170	no data	0.110	3.1	15	0.046	no data	0.004	4.5	7
29	0.460	no data	0.250	6.1	39	0.041	no data	0.039	5.7	7
30	0.220	no data	0.160	2.6	33	0.054	no data	0.032	3.4	5
31	0.160	no data	0.081	28.9	12	0.079	no data	0.021	17.8	20
32	0.096	no data	0.032	5.8	20	0.029	no data	0.024	3.7	5
33	0.130	no data	0.065	1.5	37	0.061	no data	0.024	1.6	23
34	0.390	no data	0.190	12.8	36	0.074	no data	0.030	9.0	5
35	0.410	no data	0.280	4.0	34	0.038	no data	0.016	3.5	5
36	0.200	no data	0.075	2.8	22	0.046	no data	0.014	2.5	5
37	0.170	no data	0.110	1.6	55	0.063	no data	0.025	2.7	36
38	0.150	no data	0.065	3.0	21	0.085	no data	0.024	2.3	33
39	1.000	no data	0.500	8.7	37	0.055	no data	0.001	9.5	8
40	2.7	no data	0.71	17.4	88	0.71	no data	0.001	58.1	24
41	0.18	no data	0.065	1	62	0.1	no data	0.034	2	34
42	0.52	no data	0.066	2.1	38.7	0.11	no data	0.044	2	24
43	0.14	no data	0.082	1	36	0.11	no data	0.064	5.8	15

Table S1 (continued).

[illegible]