Water Resources Research

Supporting Information for

Predicting Unsteady Solute Transport through Green Stormwater Infrastructure with

Transit Time Distribution Theory

E.A. Parker, S.B. Grant, Y. Cao, M.A. Rippy, K. McGuire, P. Holden, M. Feraud, S. Avasarala, H. Liu, W. Hung, M. Rugh, J. Jay, J. Peng, S. Shao, D. Li

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Introduction. This Supporting Information includes a table (**Table S1**) summarizing water volume recovery and bromide mass recovery for storm simulation experiments in 2018 and 2019.

Table S1. Total inflow volume delivered to the biofilter's ponding zone, total volume recovered in the outflow tank, total ET (estimated by integrating the hourly cPET from the beginning of the storm to the beginning of the next storm (or in the case of 2018 Storm 10 and 2019 Storm 7, integrating hourly cPET over ten hours starting from the beginning of the storm)), and mass of bromide added and recovered for all storms simulated in 2018 and 2019. The inflow bromide mass column is marked not applicable (N/A) for storms that were not spiked with bromide, and the outflow bromide mass column is marked N/A for any storms that were conducted prior to the first bromide spiked storm of each year's sequence.

	Inflow Volume (L)	Biofilter Area-normalized Inflow Volume (m)	Outflow Volume Recovered (L)	Biofilter Area-normalized Outflow Volume Recovered (m)	ET (m)	Mass of Br- in Inflow (g)	Mass of Br- Recovered in Outflow (g)	Cumulative Br- Mass Recovery (%)
2018 Storm 1	1540	0.414	435	0.117	0.00282	N/A	N/A	N/A
2018 Storm 2	1557	0.419	722	0.194	0.00167	75.8	15.9	21.0
2018 Storm 3	1540	0.414	413	0.111	0.00248	N/A	5.5	28.2
2018 Storm 4	1494	0.402	658	0.177	0.00254	72.9	19.5	27.5
2018 Storm 5	1546	0.416	399	0.107	0.00253	N/A	6.6	31.9
2018 Storm 6	1547	0.416	651	0.175	0.00206	76.3	18.7	29.4
2018 Storm 7	1535	0.413	378	0.102	0.00239	N/A	7.3	32.7
2018 Storm 8	1546	0.416	702	0.189	0.00199	74.7	19.7	31.1
2018 Storm 9	1553	0.418	410	0.110	0.00202	N/A	7.3	33.5
2018 Storm 10	1546	0.416	751	0.202	0.00200	68.6	19.4	32.6
2019 Storm 1	1433	0.386	302	0.0813	0.000581	N/A	N/A	N/A
2019 Storm 2	1376	0.370	649	0.175	0.00248	N/A	N/A	N/A
2019 Storm 3	1381	0.372	266	0.0716	0.00308	171.6	9.2	5.36
2019 Storm 4	1417	0.381	342	0.0920	0.00194	N/A	13.4	13.2
2019 Storm 5	1411	0.380	654	0.176	0.00127	N/A	12.2	20.3
2019 Storm 6	1392	0.375	397	0.107	0.00211	N/A	1.3	21.0
2019 Storm 7	1386	0.373	608	0.164	0.00142	N/A	0.8	21.5