Electronic Supplementary Material (ESI) for Environmental Science: Processes & Impacts.

Supplementary Information

Temporal analysis of *E. coli*, TSS and wastewater micropollutant loads from combined sewer overflows: implications for management

Madoux-Humery Anne-Sophie[a*], Sarah M. Dorner[b], Sébastien Sauvé[c], Khadija Aboulfadl[c], Martine Galarneau[d], Pierre Servais[e], Michèle Prévost[a]

Supplementary Information (SI):

Number of pages: 6

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Figures

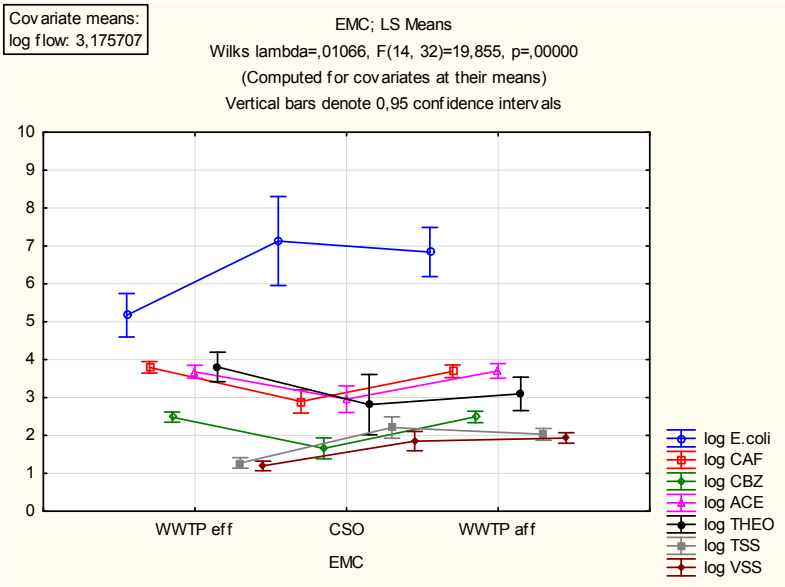

Figure S1: Responses vs EMC at the mean of Log Flow

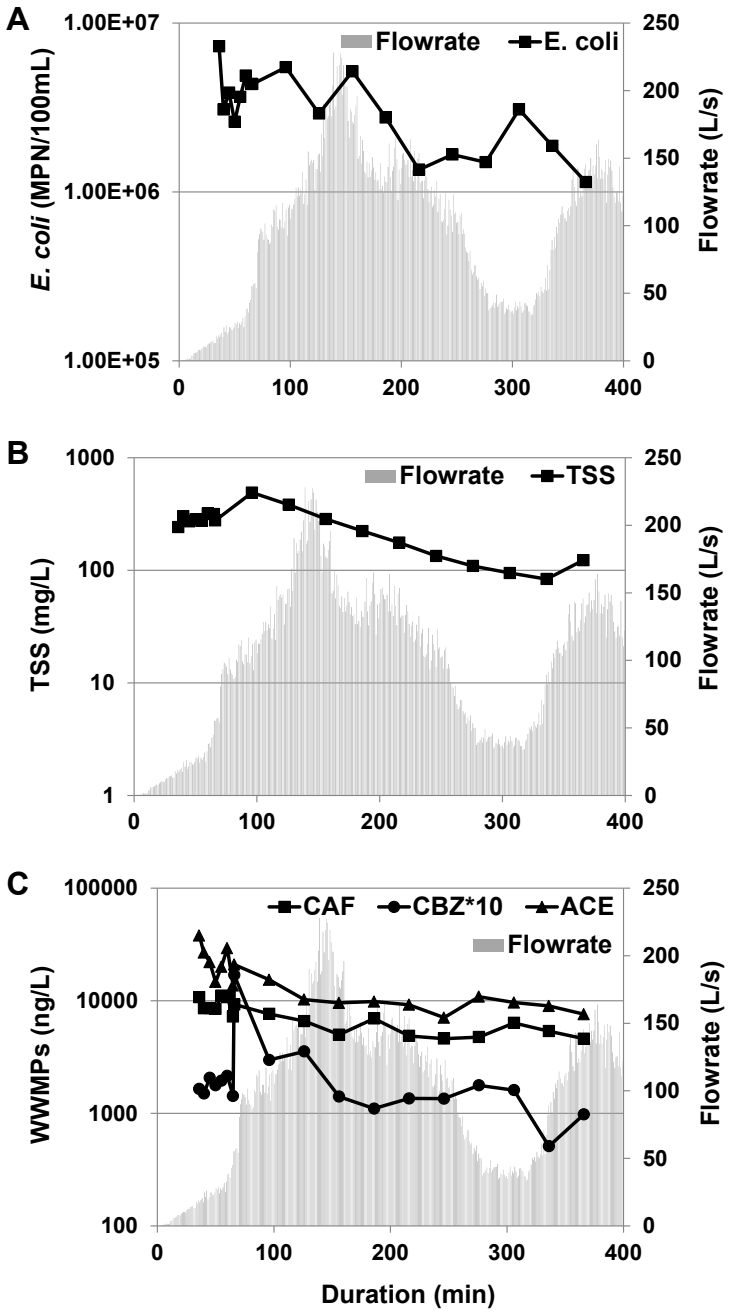

Figure S2: Concentrations of pollutants and fluctuations of the flowrate during an overflow event in snowmelt (#1). (A) *E. coli*, (B) TSS, (C) CAF, CBZ and ACE.

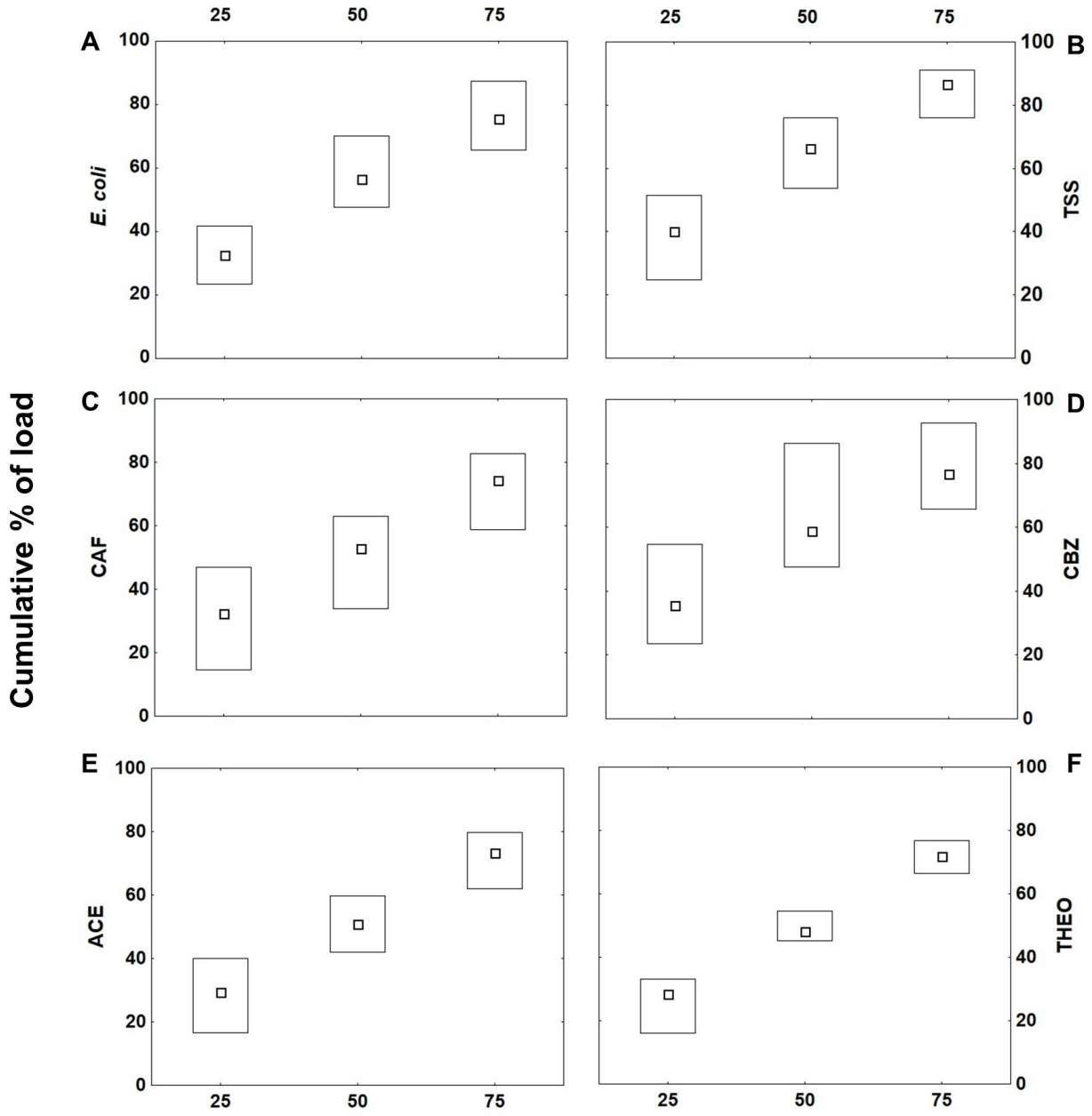

Figure S3: Cumulative percentage of load discharged versus cumulative fraction of discharged volume. (A) *E. coli*, (B) TSS (C) CAF, (D) CBZ, (E) ACE, (F) THEO.

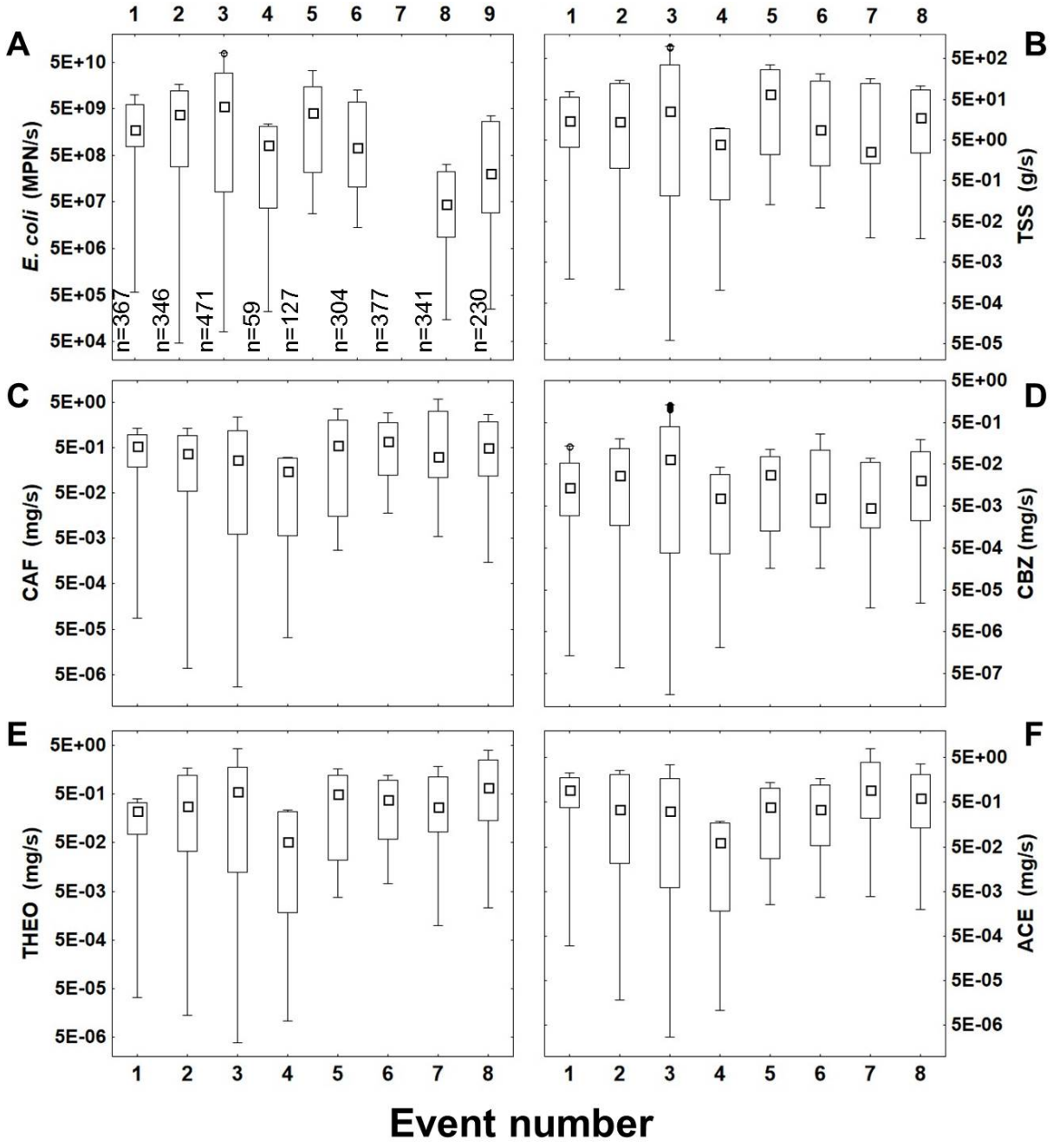

Figure S4: Box-plots of pollutant loads measured in CSOs for different events. (A) *E. coli*, (B) TSS, (C) CAF; (D): CBZ; (E) THEO, (F) ACE. The number of interpolated values (n) is indicated in box A.

Table

Table S1: Impact of EMC on each of the responses

effect	df	Log*E. coli* p	logCAF p	logCBZ p	logACE p	logTHEO p	logTSS p
intercept	1	**0,000453**	**0,000000**	**0,000000**	**0,000000**	**0,000083**	**0,000012**
Log flow	1	0,931557	**0,000261**	**0,000027**	**0,003144**	0,117484	0,583767
EMC	2	**0,000083**	**0,000637**	**0,000496**	**0,012668**	**0,007178**	**0,000000**
Error	22						
Total	25						
Significant responses are in bold font							

In all cases the EMC factor has a highly significant impact on each of the responses.