Supplementary material S1. In house method performance and literature findings

Compound	Sample type	Compound concentration (µg/L	Mean values ± sd[a] (µg/L)	No. of samples	RSD[b] %	MDL[c] (µg/L)	PQL (µg/L)	SM[e], 1998 MDL (µg/L)	EPA 8260B MDL (µg/L)
Vinyl chloride	CW[f]	0.2	0.250±0.02	6	8.0	0.10	0.50	0.120	0.17
	GW[g]	0.2	0.190±0.02	6	10.5	0.10	0.50		
Chloroform	CW	0.4	0.637±0.07	6	10.2	0.32	1.60	0.126	0.03
	GW	0.4	0.365±0.02	6	5.9	0.11	0.55		
1,1,1-TCE	CW	0.4	0.485±0.01	6	2.2	0.052	0.26	0.043	0.08
	GW	0.4	0.465±0.01	6	2.3	0.052	0.26		
1,2-DCE	CW	0.4	0.348±0.01	6	2.8	0.049	0.25	0.055	0.04
	GW	0.4	0.347±0.01	6	2.4	0.040	0.20		
Benzene	CW	0.4	0.215±0.005	6	2.6	0.027	0.14	0.036	0.04
	GW	0.4	0.252±0.015	6	5.9	0.073	0.37		
Trichloroethene	CW	0.4	0.400±0.025	6	6.1	0.121	0.60	0.045	0.19
	GW	0.4	0.302±0.012	6	3.9	0.058	0.29		
BDCM	CW	0.4	0.518±0.019	6	3.7	0.096	0.48	0.112	0.08
	GW	0.4	0.487±0.008	6	1.7	0.040	0.20		
Toluene	CW	0.4	0.707±0.043	6	6.1	0.211	1.06	0.047	0.11
	GW	0.4	0.605±0.021	6	3.4	0.102	0.51		
DBCM	CW	0.4	0.478±0.019	6	4.1	0.096	0.48	0.133	0.05
	GW	0.4	0.482±0.008	6	1.6	0.037	0.19		
Tetrachloroethene	CW	0.4	0.365±0.021	6	5.7	0.102	0.51	0.047	0.05
	GW	0.4	0.475±0.008	6	1.8	0.041	0.20		
Chlorbenzene	CW	0.4	0.467±0.025	6	5.4	0.124	0.62	0.052	0.04
	GW	0.4	0.433±0.005	6	1.2	0.026	0.13		
Ethylbenzene	CW	0.4	0.360±0.026	6	7.4	0.130	0.65	0.032	0.06
	GW	0.4	0.323±0.008	6	2.5	0.040	0.20		
m+p xylene	CW	0.4	0.240±0.032	6	13.2	0.156	0.78	0.038	0.05/0.13
	GW	0.4	0.187±0.001	6	4.4	0.040	0.20		
o-xylene	CW	0.4	0.308±0.042	6	13.5	0.206	1.03	0.038	0.11
	GW	0.4	0.202±0.012	6	5.8	0.058	0.29		
Bromoform	CW	0.4	0.292±0.029	6	10.0	0.144	0.72	0.131	0.12
	GW	0.4	0.243±0.016	6	6.7	0.081	0.40		
1,2-dichlorbenzene	CW	0.4	0.545±0.046	6	8.5	0.229	1.15	0.031	0.03
	GW	0.4	0.562±0.016	6	6.8	0.079	0.40		
1,4-dichlorbenzene	CW	0.4	0.505±0.053	6	10.5	0.263	1.32	0.031	0.03
	GW	0.4	0.543±0.037	6	6.8	0.181	0.90		

[a]sd – standard deviation
[b]RSD – relative standard deviation of recovery
[c]MDL - method detection limit
[d]PQL – practical quantitation level
[e]SM – Standard Methods for the examination of Water and Wastewater (AWWA- APHA-WEF, 1998)
[f]CW – clean water matrix
[g]GW – natural matrix