

Supplementary Materials

Table S1. Chemical analyses.

Sample No.		8334	8335	8336	8337	8338	8339	8340	8341	8342	8343
Date of sampling		2019-10-21	2019-10-21	2019-10-21	2019-10-21	2019-10-21	2019-10-21	2019-10-21	2019-10-21	2019-10-21	2019-10-21
Sample name		Hnevkovice WWTP 1	Hnevkovice WWTP 2	Hnevkovice WWTP 3	Hnevkovice WWTP 4	Hnevkovice WWTP 5	Hnevkovice WWTP 6	Hnevkovice WWTP 7	Hnevkovice WWTP 8	Hnevkovice stream	Hnevkovice above WWTP
Bisphenol A	ng/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Carbamazepine	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Erythromycin	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Sulfamethoxazole	ng/L	11200	14200	14800	13400	12900	16100	12600	14300	903	10.3
Iopromide	ng/L	138	116	97.4	92.5	92.8	72.2	92.5	88.9	54.0	<50
Ibuprofen	ng/L	85.7	81.2	73.2	51.1	49.8	54.4	50.6	37.9	97.0	<20
Diclofenac	ng/L	4490	3740	3840	3940	3530	3990	4220	4270	1650	<20
Iopamidol	ng/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Atenolol	ng/L	867	678	727	718	795	826	727	819	474	<10
Caffeine	ng/L	<100	158	<100	<100	<100	<100	<100	<100	170	<100
Ketoprofen	ng/L	135	133	81.6	102	117	153	186	206	19.1	<10
Metoprolol	ng/L	1080	1110	1010	1150	1220	1090	1140	1050	621	<10
Penicillin G	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Sulfamerazine	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Sulfamethazine	ng/L	64.7	60.9	53.3	58.6	79.3	180	209	268	40.9	<10
Sulfapyridine	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trimetoprim	ng/L	834	850	998	930	963	978	864	955	324	<10

Furosemide	ng/L	2280	2210	1750	1990	2370	2220	2310	2540	362	<50
Gemfibrozil	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hydrochlorothiazide	ng/L	2910	2870	2700	2930	2730	2950	2390	3470	933	<50
Naproxen	ng/L	<50	<50	<50	<50	<50	<50	<50	<50	102	<50
Triclocarban	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Triclosan	ng/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Chloramphenicol	ng/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Bezafibrate	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Warfarin	ng/L	10.4	<10	<10	<10	10.1	<10	<10	10.2	<10	<10
Saccharin	ng/L	237	240	244	189	154	206	151	204	224	<50
Gabapentin	ng/L	2540	2250	1850	1800	1480	1970	1340	1670	1620	<10
Tramadol	ng/L	1370	1240	1260	1310	1330	1260	1200	1230	679	<10
Paracetamol	ng/L	<10	41.6	<10	<10	<10	<10	<10	<10	19.2	<10
Sulfanilamide	ng/L	130	140	129	136	129	134	133	197	70.6	<50
Clarithromycin	ng/L	105	95.8	94.5	82.2	74.0	74.9	78.7	75.3	268	<10
Roxithromycin	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Azithromycin	ng/L	187	165	189	159	128	142	141	133	47.5	<10
Carbamazepine-E	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbamazepine-DHH	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbamazepine-DH	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Oxcarbazepine	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ibuprofen-2-hydroxy	ng/L	434	327	312	255	261	261	243	184	462	<30
Ibuprofen-carboxy	ng/L	<20	72.6	<20	<20	<20	<20	<20	<20	<20	<20

Diclofenac-4-hydroxy	ng/L	2020	2220	1920	1670	1900	1790	1880	1880	444	<20
Naproxen-O-desmeth.	ng/L	<20	<20	<20	<20	<20	<20	<20	<20	38.5	<20
Venlafaxine	ng/L	47.4	48.5	49.8	49.9	52.8	51.8	48.4	53.3	23.3	<10
Sertraline	ng/L	31.4	32.1	36.9	33.6	28.9	33.9	31.6	32.9	12.7	<10
Ranitidine	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iohexol	ng/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Carbamazepine-2-hydr.	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Clofibric acid	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cotinine	ng/L	20.9	24.1	<20	<20	21.7	<20	21.1	28.7	28.5	<20
Paraxanthine	ng/L	673	698	582	424	551	394	354	319	703	<100
Acesulfame	ng/L	1060	902	951	887	848	872	672	854	1120	<50
Bisphenol B	ng/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Bisphenol S	ng/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Oxypurinol	ng/L	19200	17900	21200	18200	21500	17900	18100	21500	14600	<50
Tiamulin	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acebutolol	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Alfuzosin	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bisoprolol	ng/L	187	157	157	154	165	155	155	169	77.1	<10
Celiprolol	ng/L	1490	1480	1390	1430	1380	1320	1420	1360	847	<10
Citalopram	ng/L	165	160	141	157	141	147	139	138	50.1	<20
Clindamycin	ng/L	14.5	12.6	13.6	14.1	14.1	15.5	14.8	15.1	12.6	<10
Cyclophosphamide	ng/L	54.6	53.7	58.5	50.5	56.4	54.3	51.7	55.9	25.8	<10
Diltiazem	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Fexofenadine	ng/L	374	385	345	341	334	331	339	367	215	<10
Fluconazole	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Fluoxetine	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
lomeprol	ng/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Irbesartan	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ivermectin	ng/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Lamotrigine	ng/L	1740	1780	1750	1780	1890	1870	1740	1700	931	<10
Lovastatin	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Memantine	ng/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Mirtazapine	ng/L	55.8	53.6	38.1	46.4	55.5	51.0	43.5	54.9	11.4	<10
Phenazone	ng/L	82.7	80.7	77.2	77.4	87.4	89.5	83.6	98.0	19.2	<10
Primidone	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Propranolol	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Propyphenazone	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Simvastatin	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Sotalol	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Telmisartan	ng/L	6100	6450	6880	6330	6300	6140	6680	6440	2790	32.2
Valsartan	ng/L	565	497	447	406	384	365	380	367	258	<10
Metformin	ng/L	515	1950	542	689	453	476	376	361	956	22.3
DEET	ng/L	24.8	23.6	17.4	18.5	23.7	15.8	23.4	15.1	36.8	<10
OMC	ng/L	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000
PFOS	ng/L	<5,0	<5,0	<5,0	<5,0	<5,0	<5,0	<5,0	<5,0	<5,0	<5,0
PFOA	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Benzotriazole	ng/L	1430	1460	1420	1320	1120	1100	1010	1090	1060	<20
Benzotriazole methyl	ng/L	639	677	695	657	608	636	491	578	328	<20
4-formylaminoantipyrene	ng/L	4030	3930	4800	4290	4440	4770	4330	4070	1320	<10
Atorvastatin	ng/L	32.7	31.0	26.2	32.0	34.1	37.5	34.9	33.7	15.2	<10
Butylparaben	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Climbazole	ng/L	96.5	84.3	91.1	85.2	88.8	92.1	85.7	92.5	31.9	<10
Cyclamate	ng/L	291	381	217	204	162	158	114	123	391	<100
Diatrizoate	ng/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Ethylparaben	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylparaben	ng/L	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Norverapamil	ng/L	<10	<10	10.1	<10	<10	<10	<10	<10	<10	<10
Propylparaben	ng/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Salbutamol	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Sucralose	ng/L	4990	4320	5200	4390	4330	4550	4250	4210	2460	<1000
Valsartan acid	ng/L	1110	999	1060	1060	1060	1020	992	1160	586	<10
Verapamil	ng/L	66.2	74.5	76.7	56.5	53.1	60.6	61.5	62.5	16.9	<10
	ng/L	<2,0	<2,0	<2,0	<2,0	2.1	<2,0	<2,0	<2,0	<2,0	<2,0
Sample No.	ng/L	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0
17a-ethynilestradiol	ng/L	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0	<1,0	1.2	<1,0
17-alpha-estradiol	ng/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
17-beta-estradiol	ng/L	2.1	2.1	1.0	1.2	1.8	1.1	1.6	1.0	4.6	<1,0
Estriol	ng/L	<0,5	<0,5	<0,5	<0,5	<0,5	<0,5	<0,5	<0,5	<0,5	<0,5

Estrone	ng/L	<0,5	<0,5	<0,5	<0,5	<0,5	<0,5	<0,5	<0,5	<0,5	<0,5
Progesterone	ng/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Testosterone	ng/L	22.7	28.2	<20	<20	22.7	21.9	<20	26.4	<20	<20
	ng/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Sample No.	ng/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Enrofloxacin	ng/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Norfloxacin											
Ciprofloxacin											
Ofloxacin											
Doxycycline											