

Appendix 3. Concentrations of pharmaceuticals and organic wastewater compounds in 24-hour flow-weighted influent and effluent composite samples.

[Values in micrograms per liter. Compounds in bold were not detected in wastewater samples. ND, North District Wastewater Treatment Plant; CD1, Central District Wastewater Treatment Plant 1; CD2, Central District Wastewater Treatment Plant 2; SD1, South District Wastewater Treatment Plant 1; SD2, South District Wastewater Treatment Plant 2; HS, Homestead Wastewater Treatment Plant; E, estimated; —, not detected; nd, not determined due to lost sample]

Compound	ND influent wet	CD1 influent wet	CD2 influent wet	SD1 influent wet	SD2 influent wet	HS influent wet	ND influent dry	CD1 influent dry	CD2 influent dry	SD1 influent dry	SD2 influent dry	HS influent dry	ND effluent wet	CD1 effluent wet	CD2 effluent wet	SD1 effluent wet	SD2 effluent wet	HS effluent wet	ND effluent dry	CD1 effluent dry	CD2 effluent dry	SD1 effluent dry	SD2 effluent dry	HS effluent dry	
Diazinon, oxygen analog	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Dichlorvos	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Dicrotophos	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Dieldrin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Dimethoate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Ethion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Ethion monoxon	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Fenamiphos	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Fenamiphos sulfone	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Fenamiphos sulfoxide	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Fipronil	E 0.036	E 0.041	E 0.041	E 0.0803	E 0.0622	E 0.0505	E 0.046	E 0.149	E 0.083	E 0.059	E 0.043	E 0.024	E 0.038	E 0.040	E 0.046	E 0.0788	E 0.0677	E 0.0158	E 0.050	E 0.112	E 0.084	E 0.063	E 0.057	E 0.027	
Fipronil sulfide	E 0.008	E 0.008	E 0.008	E 0.0089	E 0.0087	E 0.0080	—	0.014	E 0.008	E 0.011	E 0.009	E 0.006	E 0.008	E 0.010	E 0.010	E 0.0105	E 0.0101	E 0.0066	E 0.007	0.019	E 0.011	E 0.011	E 0.008	E 0.006	
Fipronil sulfone	—	—	—	—	E 0.0107	—	—	—	—	—	—	—	—	—	—	—	—	—	—	E 0.011	—	E 0.010	E 0.009	—	
Fonofos	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hexazinone	—	E 0.034	E 0.023	0.0309	0.0232	—	—	—	—	0.033	0.028	—	—	0.028	0.017	0.035	0.0254	—	0.032	0.042	0.04	0.036	0.03	—	
Iprodione	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Isofenphos	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Malaoxon	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Malathion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Metaxyl	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Methidathion	—	—	—	—	—	0.114	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Methyl_parathion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Metolachlor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Metribuzin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.022	—	
Myclobutanil	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Paraoxon-methyl	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Pendimethalin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Phorate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Phorate oxygen analog	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Phosmet	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Phosmet_oxon	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Prometon	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Prometryn	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Pronamide	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Simazine	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Tebuthiuron	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Terbufos	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Terbufos oxygen analog sulfone	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Terbutylazine	—	—	—	—	—	0.122	—	—	—	—	—	—	—	—	—	—	—	0.0602	—	—	—	—	—	—	
Tribufos	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Wastewater-indicator compounds																									
1,7-Dimethylxanthine (para-Xanthine)	E 1.38	1.18	1.19	E 5.20	E 1.27	E 7.66	10.5	E 9.34	1.22	11.1	8.77	8.77	—	—	—	—	E 0.449	—	—	—	0.914	0.143	—	1.26	0.148
1-Methylnaphthalene	E 0.123	E 0.437	0.352	E 0.064	E 0.101	E 0.152	0.415	nd	E 0.363	E 0.0626	E 0.117	E 0.0504	—	—	—	—	—	—	—	—	nd	E 0.0077	—	—	—
2,2',4,4'-Tetrabromodiphenylether (PBDE 47)	—	—	—	—	—	—	—	nd	—	—	—	—	—	—	—	—	—	—	—	—	nd	—	—	—	—
2,6-Dimethylnaphthalene	E 0.119	E 0.482	0.327	E 0.049	E 0.059	E 0.052	0.562	nd	E 0.456	E 0.0651	E 0.108	E 0.0194	—	E 0.0134	E 0.0061	—	—	—	—	—	nd	—	—	—	—
2-Methylnaphthalene	0.264	E 0.793	0.605	E 0.156	E 0.230	E 0.339	0.759	nd	E 0.620	E 0.144	0.271	E 0.110	—	—	—	—	—	—	—	—	nd	E 0.0110	—	—	—
3,4-Dichlorophenyl isocyanate	—	—	—	—	—	—	—	nd	—	—	—	—	E 0.353	E 0.275	E 0.174	E 0.227	E 0.316	E 0.053	E 0.207	nd	E 0.216	E 0.112	E 0.165	E 0.0463	
3- <i>beta</i> -Coprostanol	E 102	E 49.5	E 63.2	E 83.6	E 78.5	E 71.8	E 86.7	nd	E 117	E 102	E 68.2	E 63.3	E 4.18	—	—	E 3.14	E 2.64	—	E 2.28	nd	E 0.793	E 2.84	E 4.37	E 0.243	
3-Methyl-1H-indole (skatol)	1.25	E 0.460	0.823	E 1.08	1.5	E 1.16	1.58	nd	E 0.337	E 1.13	1.78	E 0.437	E 0.0125	—	—	E 0.062	E 0.059	E 0.004	—	nd	E 0.0233	—	E 0.0183	E 0.0040	
3-tert-Butyl-4-hydroxyanisole (BHA)	—	E 0.124	E 0.108	E 0.160	E 0.178	E 0.118	E 0.274	nd	E 0.0844	E 0.279	E 0.317	E 0.0588	—	—	—	E 0.286	—	—	E 0.120	nd	E 0.130	E 0.177	E 0.311	—	
4-Cumylphenol	—	—	—	—	E 0.085	E 0.092	E 0.192	nd	—	—	—	—	—	—	—	—	—	—	—	—	nd	—	—	—	—
4-n-Octylphenol	—	—	—	—	—	—	—	nd	—	—	—	—	—	—	—	—	—	—	—	—	nd	—	—	—	—
4-Nonylphenol (total, NP)	E 46.0	E 26.5	E 24.4	E 24.1	E 19.2	E 5.19	E 116	nd	E 27.8	E 36.2	E 36.5	E 3.81	E 1.01	E 1.41	—	E 2.41	E 2.12	E 0.65	E 2.20	nd	E 1.80	E 1.98	E 4.72	—	
4-Nonylphenol diethoxylate (NP ₂ EO)	—	E 5.45	E 8.15	—	—	E 1.58	E 37.4	nd	E 4.29	—	—	—	E 1.97	E 4.40	—	E 0.82	E 1.07	—	E 3.50	nd	E 5.22	E 1.40	E 1.79	—	
4-Nonylphenol monoethoxylate (NP ₁ EO)	E 14.5	—	E 15.8	E 4.01	—	—	E 6.67	nd	E 25.7	—	—	E 3.51	E 0.944	—	U-D	E 0.53	E 0.59	—	E 1.50	nd	E 2.02	E 0.847	E 1.29	—	
4-Octylphenol diethoxylate (OP ₂ EO)	4.0	3.34	5.58	4.66	4.44	6.71	33	nd	14.7	37.4	47.8	12.4	E 0.888	E 1.34	E 0.903	E 1.17	E 0.694	E 0.056	E 1.24	nd	E 2.01	E 1.12	E 0.816	—	
4-Octylphenol monoethoxylate (OP ₁ EO)	E 5.49	E 3.17	E 3.18	—	—	E 1.31	E 4.44	nd	E 2.92	E 2.83	E 2.63	—	E 0.905	E 0.676	E 0.666	E 0.62	E 0.65	—	—	nd	E 1.40	—	—	—	
4-tert-Octylphenol (OP)	E 9.12	E 4.83	E 3.72	E 5.51	E 5.87	E 1.18	E 10.8	nd	E 3.72	E 7.63	E 6.05	—	E 0.241	E 0.163	—	E 0.409	E 0.387	E 0.043	—	nd	—	—	—	—	
5-Methyl-1H-benzotriazole	E 0.514	—	—	—	—	—	—	nd	E 0.713	—	—	—	E 0.101	E 0.592	E 0.350	E 0.397	E 0.371	—	—	nd	E 1.24	E 0.354	E 0.518	—	
Acetophenone	0.833	E 0.889	0.686	E 0.482	E 0.478	E 0.479	0.81	nd	0.689	E 1.72	1.61	—	E 0.161	—	—	0.578	E 0.284	E 0.281	—	nd	—	—	—	—	
Anthouracene	—	E 0.0379	E 0.0279	—	—	E 0.079	E 0.0390	nd	—	E 0.0385	E 0.0730	E 0.0341	E 0.0131	—	—	—	—	—	—	nd	—	—	E 0.0114	—	
Anthouraquinone	—	—	—	—	—	—	—	nd	—	—	—	—	E 0.0296	—	—	—	—	E 0.038	—	nd	—	—	—	E 0.0217	
Benzo[a]pyrene	E 0.102	E 0.0461	E 0.0233	E 0.015	E 0.010	—	—	nd	E 0.0264	—	—	—	E 0.0128	—	—	—	—	—	—	nd	—	—	—	—	
Benzophenone	1.44	E 0.523	0.486	E 0.57	E 0.67	E 0.49	1.39	nd	0.438	E 0.893	E 1.07	E 0.236	0.324	E 0.182	E 0.168	0.56	0.42	E 0.10							

Appendix 3. Concentrations of pharmaceuticals and organic wastewater compounds in 24-hour flow-weighted influent and effluent composite samples.

[Values in micrograms per liter. Compounds in bold were not detected in wastewater samples. ND, North District Wastewater Treatment Plant; CD1, Central District Wastewater Treatment Plant 1; CD2, Central District Wastewater Treatment Plant 2; SD1, South District Wastewater Treatment Plant 1; SD2, South District Wastewater Treatment Plant 2; HS, Homestead Wastewater Treatment Plant; E, estimated; —, not detected; nd, not determined due to lost sample]

Compound	ND influent wet	CD1 influent wet	CD2 influent wet	SD1 influent wet	SD2 influent wet	HS influent wet	ND influent dry	CD1 influent dry	CD2 influent dry	SD1 influent dry	SD2 influent dry	HS influent dry	ND effluent wet	CD1 effluent wet	CD2 effluent wet	SD1 effluent wet	SD2 effluent wet	HS effluent wet	ND effluent dry	CD1 effluent dry	CD2 effluent dry	SD1 effluent dry	SD2 effluent dry	HS effluent dry
Carbazole	—	—	—	—	—	E 0.144	—	nd	—	—	—	E 0.0528	—	—	—	—	—	—	—	nd	—	—	—	—
Cholesterol	E 125	E 79.5	E 74.2	E 97.0	E 88.8	E 90.9	E 96.7	nd	E 86.6	E 129	E 92.7	E 55.6	E 2.74	E 4.10	—	E 2.88	E 4.02	—	E 2.43	nd	E 0.716	E 3.84	E 5.38	E 0.393
Cotinine	—	—	—	E 0.547	E 0.646	E 0.469	—	nd	—	—	—	E 0.352	—	—	E 0.0491	E 0.216	E 0.090	—	E 0.0733	nd	E 0.137	—	E 0.439	—
Fluoranthene	E 0.189	E 0.122	E 0.0618	E 0.063	E 0.059	E 0.092	E 0.0699	nd	—	—	—	E 0.0514	E 0.0162	E 0.0116	—	E 0.019	E 0.022	—	—	nd	E 0.0099	E 0.0203	E 0.0250	—
Galaxolide (HHCB)	7.42	E 5.13	3.72	E 4.06	E 4.26	E 2.93	6.21	nd	E 3.28	E 6.09	E 7.06	E 1.70	1.89	2.04	E 1.45	2.54	4.34	0.795	2.57	nd	1.58	E 2.92	E 3.98	E 1.03
Indole	E 4.06	E 2.00	E 2.23	E 0.836	E 3.59	E 0.066	2.36	nd	E 1.86	—	—	E 0.162	—	—	—	E 0.056	E 0.056	—	—	nd	—	—	—	—
Isoborneol	1.07	E 0.872	0.914	E 1.05	E 1.20	E 0.457	1.24	nd	E 0.958	E 1.43	1.38	E 0.298	—	—	—	—	—	—	—	nd	—	—	—	—
Isophorone	—	E 0.515	—	—	—	—	—	nd	—	—	—	—	E 0.0246	E 0.0304	E 0.0279	E 0.034	E 0.039	E 0.008	—	nd	—	—	—	—
Isopropylbenzene (Cumene)	E 0.0413	E 0.108	E 0.0893	—	—	E 0.006	E 0.0826	nd	E 0.0574	—	—	—	—	—	—	—	—	—	—	nd	—	—	—	—
Isoquinoline	—	—	—	—	—	—	—	nd	—	—	—	—	—	—	—	—	—	—	—	nd	—	—	—	—
Limonene	E 7.52	E 4.89	E 5.03	E 1.93	E 1.86	E 1.02	E 6.30	nd	E 9.82	E 1.78	E 2.31	E 1.10	—	—	—	—	—	—	—	nd	E 0.0874	—	—	—
Menthol	E 13.1	E 7.69	E 7.36	E 14.1	E 16.0	E 8.39	14.3	nd	E 5.73	E 19.3	18.1	E 4.12	—	E 0.147	E 0.0879	0.367	—	E 0.032	—	nd	—	—	—	—
Methyl salicylate	0.74	E 0.201	0.456	E 0.473	E 0.389	E 0.586	—	nd	—	E 0.699	0.689	E 0.246	—	—	—	—	—	E 0.020	—	nd	—	—	—	—
N,N-Diethyl-meta-toluamide (DEET)	—	E 0.792	0.87	E 1.08	E 1.61	E 1.55	0.338	nd	E 0.497	E 0.562	0.644	E 0.190	0.246	0.287	E 0.0947	0.474	E 0.193	E 0.040	—	nd	E 0.286	E 0.0752	E 0.188	—
Naphthalene	0.388	E 0.596	0.495	E 0.232	E 0.257	E 0.248	0.599	nd	E 0.405	E 0.237	0.312	E 0.110	—	—	—	—	—	E 0.013	—	nd	E 0.0177	—	—	—
para-Cresol	E 31.1	E 4.76	E 20.7	E 7.39	E 45.6	E 0.060	E 64.7	nd	E 5.14	—	29.3	—	0.291	0.435	E 0.0853	—	E 0.056	—	0.286	nd	0.251	—	—	—
Phenanthourene	0.213	E 0.224	E 0.148	E 0.142	E 0.154	E 0.294	E 0.191	nd	E 0.178	E 0.150	0.297	E 0.129	—	—	—	E 0.016	E 0.013	—	—	nd	—	—	E 0.0198	—
Phenol	12.4	—	6.82	—	E 14.9	—	E 21.0	nd	—	—	16.1	—	—	—	—	—	—	—	—	nd	—	—	—	—
Pyrene	—	—	—	E 0.017	—	E 0.026	—	nd	—	—	—	—	E 0.0155	E 0.0178	E 0.0140	E 0.014	E 0.015	—	E 0.0142	nd	E 0.0246	E 0.0170	E 0.0226	—
Tetrachloroethylene	E 0.214	E 0.324	E 0.281	E 0.210	E 0.10	E 0.008	E 0.534	nd	E 0.262	E 0.128	E 0.116	E 0.0481	E 0.100	E 0.205	E 0.101	E 0.167	E 0.086	—	E 0.223	nd	E 0.216	E 0.118	E 0.135	—
Tonalide (AHTN)	—	—	0.78	E 0.536	E 0.664	E 0.319	—	nd	E 0.699	E 0.779	—	E 0.168	E 0.130	E 0.129	E 0.0951	0.201	0.327	E 0.045	E 0.161	nd	E 0.108	E 0.260	E 0.320	—
Tri(2-butoxyethyl) phosphate	E 4.15	E 5.23	E 5.64	E 10.2	E 6.42	E 15.1	E 4.94	nd	E 3.25	E 8.67	E 8.38	E 11.3	E 1.87	E 4.19	E 2.41	E 11.8	E 7.91	E 1.33	E 2.18	nd	E 1.21	E 3.66	E 5.45	E 3.09
Tri(2-chloroethyl) phosphate	—	—	E 0.163	E 0.178	E 0.197	E 0.161	—	nd	E 0.118	—	—	—	E 0.184	E 0.143	E 0.0957	0.247	0.257	0.216	0.271	nd	0.201	0.266	0.301	—
Tri(dichloroisopropyl) phosphate	0.254	E 0.166	E 0.169	E 0.296	E 0.352	E 0.340	0.453	nd	E 0.158	E 0.328	0.394	—	0.302	0.202	E 0.127	0.465	0.518	0.336	0.366	nd	0.245	0.482	0.505	—
Tributyl phosphate	—	—	0.352	E 0.185	E 0.106	E 0.161	—	nd	E 0.286	—	—	—	0.206	E 0.190	E 0.124	E 0.240	E 0.150	E 0.097	E 0.429	nd	E 0.244	E 0.169	E 0.164	—
Triclosan	5.6	E 3.36	2.78	E 3.58	E 3.69	E 2.43	3.84	nd	E 3.14	E 5.90	E 7.82	E 1.48	0.344	—	—	0.795	0.574	—	0.687	nd	0.367	—	E 1.01	—
Triethyl citrate (ethyl citrate)	1.08	E 0.386	0.404	E 0.556	E 0.605	E 0.409	0.813	nd	E 0.259	E 0.810	E 0.984	E 0.277	0.416	0.301	E 0.236	0.673	0.512	E 0.118	0.402	nd	0.427	E 0.518	E 0.669	—
Triphenyl phosphate	E 0.127	E 0.0741	E 0.0702	E 0.09	E 0.09	E 0.13	E 0.122	nd	E 0.0771	E 0.151	E 0.152	—	E 0.0401	E 0.0472	E 0.0389	E 0.09	E 0.09	E 0.03	E 0.0770	nd	E 0.0575	E 0.115	E 0.150	—
Pharmaceutical compounds																								
Acetaminophen	E 26.7	E 34.8	E 24.6	E 17.5	E 21.7	E 44.6	61	E 40.0	E 28.7	40.1	35	E 122	E 0.059	—	—	—	—	E 0.021	—	—	—	—	—	—
Albuterol	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Carbamazepine	0.174	0.029	0.106	0.149	0.147	0.231	0.104	0.138	0.084	0.182	0.192	—	0.156	0.122	0.132	0.181	0.172	0.185	0.146	0.174	0.131	0.246	0.199	0.195
Codeine	—	—	—	E 0.0042	—	E 0.0106	—	—	—	E 0.027	E 0.028	E 0.009	—	E 0.032	E 0.003	0.0512	E 0.0327	E 0.0176	E 0.030	—	0.046	0.055	0.044	—
Dehydronifedipine	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	E 0.006	E 0.007	E 0.003	—	E 0.012	E 0.004	E 0.007
Diltiazem	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	E 0.044	E 0.019	—	E 0.021	E 0.020	E 0.013	E 0.049	E 0.028	E 0.014
Diphenhydramine	—	—	—	—	—	—	—	—	—	—	—	—	—	0.057	E 0.011	0.181	0.0899	0.0507	E 0.024	0.06	0.044	0.104	0.072	0.117
Ibuprofen	9.5	1.582	6.577	—	—	—	0.164	5.101	5.2	13	5.495	4.615	—	—	—	—	—	—	0.437	0.605	—	—	1.27	0.213
Thiabendazole	—	—	—	—	—	E 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Warfarin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Antibiotics																								
Fluoroquinolones																								
Ciprofloxacin	0.91	0.544	1.085	0.597	1.257	1.355	0.249	0.947	0.447	0.932	0.491	0.74	0.492	0.126	0.115	0.439	0.579	0.068	0.797	0.748	1.095	0.446	0.574	0.097
Enrofloxacin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lomefloxacin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Norfloxacin	—	—	0.035	—	—	—	—	—	0.011	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ofloxacin	0.342	0.243	0.603	0.37	0.544	0.597	0.157	1.287	0.334	1.146	0.802	1.735	0.314	0.578	0.668	0.374	0.37	0.297	0.336	0.593	0.827	0.783	0.549	1.212
Sarafloxacin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Macrolides																								
Azithouromycin	—	0.181	0.026	0.741	1.64	0.877	0.039	0.128	0.141	—	—	0.376	0.151	0.226	0.181	0.518	0.562	0.291	0.424	0.278	0.529	0.503	0.588	0.196
Erythouromycin	—	—	—	0.009	0.01	0.008	—	—	—	—	—	—	0.019	0.012	0.015	0.019	0.016	0.02	—	0.016	—	—	—	0.01
Erythouromycin-H2O	0.185	0.014	0.145	0.012	0.026	0.009	0.074	0.153	0.172	0.219	0.184	0.201	0.051	0.063	0.077	0.063	0.049	0.019	0.082	0.103	0.126	0.114	—	0.093
Roxithouromycin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tylosin	—	—	—	—	—	—	—	—	—	—	—	—	0.017	0.023	0.022	—	—	—	—	—	—	—	—	—
Virginiamycin	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sulfonamides																								
Sulfachloropyridazine	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sulfadiazine	—	—	—	0.105	—																			

Appendix 3. Concentrations of pharmaceuticals and organic wastewater compounds in 24-hour flow-weighted influent and effluent composite samples.

[Values in micrograms per liter. Compounds in bold were not detected in wastewater samples. ND, North District Wastewater Treatment Plant; CD1, Central District Wastewater Treatment Plant 1; CD2, Central District Wastewater Treatment Plant 2; SD1, South District Wastewater Treatment Plant 1; SD2, South District Wastewater Treatment Plant 2; HS, Homestead Wastewater Treatment Plant; E, estimated; —, not detected; nd, not determined due to lost sample]

Compound	ND influent wet	CD1 influent wet	CD2 influent wet	SD1 influent wet	SD2 influent wet	HS influent wet	ND influent dry	CD1 influent dry	CD2 influent dry	SD1 influent dry	SD2 influent dry	HS influent dry	ND effluent wet	CD1 effluent wet	CD2 effluent wet	SD1 effluent wet	SD2 effluent wet	HS effluent wet	ND effluent dry	CD1 effluent dry	CD2 effluent dry	SD1 effluent dry	SD2 effluent dry	HS effluent dry	
Others																									
Chloramphenicol	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lincomycin	0.007	—	—	—	—	—	—	0.011	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ormetoprim	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Trimethoprim	0.319	0.091	0.318	0.418	0.342	0.688	0.203	0.663	0.286	0.484	0.548	0.435	0.292	0.337	0.243	0.277	0.293	0.03	0.652	0.377	1.083	0.425	0.361	0.094	
Hormone																									
17-beta-Estradiol	0.068	0.037	0.016	0.076	0.042	0.021	0.011	0.016	—	0.219	0.089	0.052	0.022	0.019	0.068	0.02	0.08	0.011	0.015	0.014	—	0.00974	—	0.016	