

Pharmaceuticals and Personal Care Products in Drinking Water

2016

LC-MS-MS Endocrine Disruptors Positive Mode	Minimum Reporting Limit (ng/L)	Lake Ontario Raw Water (ng/L)	Lake Ontario Effluent Water (ng/L)	Otisco Lake Raw Water (ng/L)	Otisco Lake Effluent Water (ng/L)	Likely Source and/or Typical Use
1,7-Dimethylxanthine	5	ND	ND	ND	ND	
Acetaminophen	10	ND	ND	ND	ND	Pain Reliever
Albuterol	5	ND	ND	ND	ND	
Amoxicillin (semi-quantitative)	20	ND	ND	ND	ND	
Androstenedione	10	ND	ND	ND	ND	
Antipyrine	5	ND	ND	ND	ND	
Atenolol	5	ND	ND	ND	ND	
Atrazine	5	18	8	23	15	Herbicide
Azithromycin	20	ND	ND	ND	ND	
Bezafibrate	5	ND	ND	ND	ND	
Bromacil	5	ND	ND	ND	ND	
Caffeine	5	ND	ND	ND	ND	Coffee, Tea, Soft Drinks
Carbadox	5	ND	ND	ND	ND	
Carbamazepine	5	ND	ND	ND	ND	
Carisoprodol	5	ND	ND	ND	ND	
Chloridazon	5	ND	ND	ND	ND	
Chlorotoluron	5	ND	ND	ND	ND	
Cimetidine (semi quantitative)	5	ND	ND	ND	ND	
Cotinine	10	ND	ND	ND	ND	
Desethylatrazine	5	46	20	ND	ND	Corrosion Inhibitor
Desisopropylatrazine	5	16	ND	ND	ND	Herbicide
DEET	10	ND	ND	11	ND	Insect Repellent
Dehydronifedipine	5	ND	ND	ND	ND	
Diaminochlorotriazine	5	13	ND	ND	ND	Herbicide Metabolite
Diazepam	5	ND	ND	ND	ND	
Dilantin	20	24	ND	ND	ND	Anti-convulsant drug
Ditiazem	5	ND	ND	ND	ND	
Diuron	5	ND	ND	ND	ND	
Erythromycin	10	ND	ND	ND	ND	
Flumequine	20	ND	ND	ND	ND	
Isoproturon	20	ND	ND	ND	ND	
Ketoprofen	5	ND	ND	ND	ND	

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Ketorolac	5	ND	ND	ND	ND	
Lidocaine	5	ND	ND	ND	ND	
Lincomycin	10	ND	ND	ND	ND	
Linuron	5	ND	ND	ND	ND	
Lopressor	20	ND	ND	ND	ND	
Meclofenamic Acid	20	ND	ND	ND	ND	
Meprobamate	5	ND	ND	ND	ND	
Metazachlor	5	ND	ND	ND	ND	Herbicide against Grasses
Metazochlor	5	ND	ND	ND	ND	Herbicide
Nifedipine	20	ND	ND	ND	ND	
Norethisterone	10	ND	ND	ND	ND	
Oxolinic acid	10	ND	ND	ND	ND	
Pentoxifylline	5	ND	ND	ND	ND	
Primidone	5	ND	ND	ND	ND	
Progesterone	10	ND	ND	ND	ND	
Propazine	5	ND	ND	ND	ND	
Quinoline	5	ND	ND	ND	ND	
Simazine	5	8.3	ND	ND	ND	Herbicide
Sulfachloropyridazine	5	ND	ND	ND	ND	
Sulfadiazine	5	ND	ND	ND	ND	
Sulfadimethoxine	5	ND	ND	ND	ND	
Sulfamerazine	5	ND	ND	ND	ND	
Sulfamethazine	5	ND	ND	ND	ND	
Sulfamethizole	5	ND	ND	ND	ND	
Sulfamethoxazole	5	ND	ND	ND	ND	
Sulfathiazole	5	ND	ND	ND	ND	
Testosterone	10	ND	ND	ND	ND	
Theobromine	10	ND	ND	ND	ND	
Theophylline	20	21	ND	ND	ND	Lung disease medicine
Trimethoprim	5	ND	ND	ND	ND	

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2,4-D	50	ND	ND	ND	ND	Herbicide
4-nonylphenol - semi quantitative	100	ND	ND	110	ND	Detergents
4-tert-Octylphenol	50	ND	ND	ND	ND	
Acesulfame-K	20	130	82	31	30	Artificial Sweetner
Bendroflumethiazide	10	ND	ND	ND	ND	
BPA	10	ND	ND	ND	ND	
Butalbital	10	ND	ND	ND	ND	
Butylparaben	5	ND	ND	ND	ND	
Chloramphenicol	10	ND	ND	ND	ND	
Clofibrac Acid	5	ND	ND	ND	ND	
Cyanazine	5	ND	ND	ND	ND	
Diclofenac	5	ND	ND	ND	ND	
Estradiol	10	ND	ND	ND	ND	
Estriol	10	ND	ND	ND	ND	
Estrone	5	ND	5	ND	ND	Steroid
Ethinyl Estradiol - 17 beta	10	ND	ND	ND	ND	
Ethylparaben	20	ND	ND	ND	ND	
Gemfibrozil	5	ND	ND	ND	ND	
Ibuprofen	25	ND	ND	ND	ND	
Iohexal	20	ND	ND	ND	ND	
Iopromide	10	ND	ND	ND	ND	
Isobutylparaben	10	ND	ND	ND	ND	
Methylparaben	20	ND	ND	ND	ND	
Naproxen	10	ND	ND	ND	ND	
4-nonylphenol	100	ND	ND	ND	ND	
Propylparaben	5	ND	ND	ND	ND	
Sucralose	100	140	ND	260	ND	Artificial Sweetner
Triclocarban	20	ND	ND	ND	ND	
Triclosan	20	ND	ND	ND	ND	
Warfarin	5	ND	ND	ND	ND	