

Pharmaceuticals and Personal Care Products in Drinking Water

2017

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	5.8	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	62	36	210	100	Herbicide
Azithromycin	20	ND	ND	ND	ND	
Bezafibrate	5	ND	ND	ND	ND	
Bromacil	5	ND	ND	ND	ND	
Caffeine	5	ND	ND	ND	9.0	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	47	39	ND	20	Corrosion Inhibitor
Desisopropylatrazine	5	20	10	11	ND	Herbicide
DEET	10	10	ND	13	ND	Insect Repellent
Dehydronifedipine	5	ND	ND	ND	ND	
Diaminochlorotriazine	5	ND	ND	ND	ND	
Diazepam	5	ND	ND	ND	ND	
Dilantin	20	ND	ND	ND	ND	
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	
Metolachlor	5	ND	ND	42	26	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	5.1	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	ND	ND	ND	ND	
Trimethoprim	5	ND	ND	ND	ND	

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2,4-D	50	ND	ND	ND	ND	
4-nonylphenol - semi quantitative	100	ND	ND	ND	ND	
4-tert-Octylphenol	50	ND	ND	ND	ND	
Acesulfame-K	20	150	220	ND	ND	Artificial Sweetner
Bendroflumethiazide	10	ND	ND	ND	ND	
BPA	10	18	ND	ND	ND	Used to make plastics/resins
Butalbital	10	ND	ND	ND	ND	
Butylparaben	5	ND	ND	ND	ND	
Chloramphenicol	10	ND	ND	ND	ND	
Clofibric 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	ND	ND	ND	
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	120	ND	ND	ND	Artificial Sweetner
Triclocarban	20	ND	ND	ND	ND	
Triclosan	20	ND	ND	ND	ND	
Warfarin	5	ND	ND	ND	ND	