

2023 Lake Michigan Source Water Quality

Results below are based on monitoring of raw lake water entering our plants (before treatment). These samples were analyzed by the Milwaukee Water Works and an external laboratory in 2023.

MRL = Minimum reporting limit (lowest concentration that a lab can accurately report for a method)

*If more than one method/lab was used or the MRL changed during the year, the highest MRL is listed.

--- indicates the result was below the detection limit.

General Chemistry

Analyte	Detected Above MRL?	Min	Median	Max	MRL*	Units
Alkalinity	Yes	98.2	112	120	20	mg/L as CaCO ₃
Ammonia	No	---	---	0.08	0.10	mg/L
Bromide	Yes	21	31	95	10	µg/L
Chlorate	Yes	---	17	170	10	µg/L
Chloride	Yes	13.4	14.3	22.8	2.0	mg/L
Chlorite	No	---	---	3.0	10	µg/L
Color (Apparent)	No	3	3	3	3	Pt/Co Units
Color (True)	No	3	3	3	3	Pt/Co Units
Conductivity	Yes	281	300	338	10	µS/cm
Cyanide, Total	No	---	---	---	0.005	mg/L
Fluoride	Yes	0.07	0.11	0.12	0.05	mg/L
Hardness, calcium	Yes	81.3	89.1	114	0.25	mg/L
Hardness, magnesium	Yes	48.5	48.5	48.5	0.41	mg/L
Hardness, total	Yes	123	135	151	0.66	mg/L
Nitrate	Yes	0.20	0.31	0.55	0.10	mg/L
Nitrite	Yes	---	0.003	0.011	0.010	mg/L
Ortho-phosphate	Yes	---	---	0.151	0.109	mg/L
Perchlorate	Yes	0.10	0.10	0.10	0.05	µg/L
pH	Yes	7.97	8.30	8.50	0.10	SU
Solids, Suspended	No	---	---	---	10	mg/L
Solids, Total	Yes	180	183	185	10	mg/L
Sulfate	Yes	22.0	22.6	23.9	5.00	mg/L
Total Organic Carbon	Yes	1.66	1.82	2.11	0.50	mg/L
Turbidity	Yes	0.20	0.88	13.9	0.10	NTU

Disinfection By-Products

Analyte	Detected Above MRL?	Min	Median	Max	MRL*	Units
Bromate	No	---	---	---	2.62	µg/L
Bromodichloromethane	Yes	---	1.35	2.70	0.50	µg/L
Bromoform	No	---	0.16	0.31	0.50	µg/L
Chloroform	Yes	---	1.70	3.40	0.50	µg/L
Dibromochloromethane	Yes	---	0.80	1.60	0.50	µg/L

Aldehydes

Analyte	Detected Above MRL?	Min	Median	Max	MRL*	Units
Acetaldehyde	Yes	---	---	13	5.10	µg/L
Benzaldehyde	No	---	---	---	5.10	µg/L
Butanal	No	---	---	---	5.10	µg/L
Crotonaldehyde	No	---	---	---	5.10	µg/L
Cyclohexanone	No	---	---	---	5.10	µg/L
Decanal	No	---	---	---	5.10	µg/L
Formaldehyde	No	---	---	4.3	5.10	µg/L
Glyoxal	Yes	---	---	5.8	5.10	µg/L
Heptanal	No	---	---	---	5.10	µg/L
Hexanal	No	---	---	---	5.10	µg/L
Methyl glyoxal	No	---	---	---	5.10	µg/L
Nonanal	No	---	---	---	5.10	µg/L
Octanal	No	---	---	---	5.10	µg/L
Pentanal	No	---	---	---	5.10	µg/L
Propanal	No	---	---	3.2	5.10	µg/L

Metals

Analyte	Detected Above MRL?	Min	Median	Max	MRL*	Units
Aluminum	Yes	---	---	88.8	72.7	µg/L
Antimony	No	---	---	0.19	1.00	µg/L
Arsenic	No	0.44	0.73	0.85	1.00	µg/L
Barium	Yes	19.4	20.9	21.6	2.00	µg/L
Beryllium	No	---	---	---	0.30	µg/L
Boron	Yes	23.5	23.5	23.5	5.00	µg/L
Cadmium	No	---	---	---	0.50	µg/L

Calcium	Yes	32.9	33.2	33.4	0.10	mg/L
Cerium	No	---	---	---	1.00	µg/L
Cesium	No	---	---	---	1.00	µg/L
Chromium	Yes	---	---	0.87	0.90	µg/L
Chromium, Hexavalent	Yes	0.14	0.16	0.17	0.02	µg/L
Cobalt	No	---	---	---	2.00	µg/L
Copper	Yes	---	23.9	31.1	2.21	µg/L
Dysprosium	No	---	---	---	1.00	µg/L
Erbium	No	---	---	---	1.00	µg/L
Europium	No	---	---	---	1.00	µg/L
Gadolinium	No	---	---	---	1.00	µg/L
Gallium	No	0.21	0.22	0.22	1.00	µg/L
Germanium	No	---	---	---	1.00	µg/L
Gold	No	0.21	0.41	0.61	1.00	µg/L
Hafnium	No	---	---	---	1.00	µg/L
Holmium	No	---	---	---	1.00	µg/L
Iron	Yes	---	0.01	0.02	0.01	mg/L
Lanthanum	No	---	---	---	1.00	µg/L
Lead	No	---	---	---	0.50	µg/L
Lithium	Yes	2.2	2.2	2.2	2.00	µg/L
Lutetium	No	---	---	---	1.00	µg/L
Magnesium	Yes	11.5	11.7	11.8	0.10	mg/L
Manganese	Yes	---	0.68	2.02	2.00	µg/L
Mercury	No	---	---	---	0.10	µg/L
Molybdenum	No	0.94	0.97	1.00	2.00	µg/L
Neodymium	No	---	---	---	1.00	µg/L
Nickel	No	---	0.38	0.79	1.00	µg/L
Niobium	No	---	---	---	1.00	µg/L
Osmium	No	---	---	---	1.00	µg/L
Palladium	No	---	---	---	1.00	µg/L
Phosphorus	No	---	---	---	10.0	µg/L
Platinum	No	---	---	---	1.00	µg/L
Potassium	Yes	1.50	1.50	1.50	0.20	mg/L
Praseodymium	No	---	---	---	1.00	µg/L
Rhenium	No	---	---	---	1.00	µg/L
Rhodium	No	---	---	---	1.00	µg/L
Rubidium	Yes	1.10	1.15	1.20	1.00	µg/L
Ruthenium	No	---	---	---	1.00	µg/L
Samarium	No	---	---	---	1.00	µg/L
Selenium	No	---	---	---	2.00	µg/L

Silica, Total	Yes	1.60	1.65	1.70	0.04	mg/L
Silver	No	---	---	---	0.50	µg/L
Sodium	Yes	8.2	8.3	8.4	0.10	mg/L
Strontium	Yes	117	118	118	2.00	µg/L
Tantalum	No	---	---	---	1.00	µg/L
Tellurium	No	---	---	---	1.00	µg/L
Thallium	No	---	---	---	0.30	µg/L
Thorium	No	---	---	---	1.00	µg/L
Thulium	No	---	---	---	1.00	µg/L
Tin	No	---	---	---	1.00	µg/L
Titanium	No	---	---	---	5.00	µg/L
Tungsten	No	---	---	---	1.00	µg/L
Uranium	No	0.34	0.35	0.35	1.00	µg/L
Vanadium	No	---	---	---	2.00	µg/L
Ytterbium	No	---	---	---	1.00	µg/L
Zinc	No	---	---	3.50	5.00	µg/L
Zirconium	No	---	---	---	1.00	µg/L

Nitrosamines

Analyte	Detected Above MRL?	Min	Median	Max	MRL*	Units
N-Nitrosodiethylamine (NDEA)	No	---	---	0.0010	0.0020	µg/L
N-Nitrosodimethylamine (NDMA)	Yes	---	---	0.0052	0.0020	µg/L
N-Nitrosodi-N-butylamine (NDBA)	No	---	---	---	0.0020	µg/L
N-Nitrosodi-N-propylamine (NDPA)	No	---	---	---	0.0020	µg/L
N-Nitrosodiphenylamine (NDPhA)	No	---	---	---	0.0200	µg/L
N-Nitrosomethylethylamine (NMEA)	No	---	---	---	0.0020	µg/L
N-Nitrosomorpholine (NMOR)	No	---	---	---	0.0020	µg/L
N-Nitrosopiperidine (NPIP)	No	---	---	---	0.0020	µg/L
N-Nitrosopyrrolidine (NPYR)	No	---	---	---	0.0020	µg/L

Per & Polyfluorinated Alkyl Substances (PFAS)

Analyte	Detected Above MRL?	Min	Median	Max	MRL*	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	No	---	---	---	2.00	ng/L
4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	No	---	---	---	2.00	ng/L
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	No	---	---	---	2.00	ng/L
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	No	---	0.38	0.75	2.00	ng/L

8:2 Fluorotelomer sulfonic acid (8:2 FTS)	No	---	---	---	2.00	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	No	---	---	---	2.00	ng/L
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	No	---	---	---	2.00	ng/L
N-ethylperfluorooctanesulfonamidoacetic acid	No	---	---	---	2.00	ng/L
N-methylperfluorooctanesulfonamidoacetic acid	No	---	---	---	2.00	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	No	---	---	---	2.00	ng/L
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	No	---	---	---	2.00	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	No	---	---	---	2.00	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	No	---	---	---	2.00	ng/L
Perfluorobutanesulfonic acid (PFBS)	No	---	---	0.45	2.00	ng/L
Perfluorobutanoic acid (PFBA)	Yes	1.80	2.80	3.80	2.00	ng/L
Perfluorodecanoic acid (PFDA)	No	---	---	---	2.00	ng/L
Perfluorododecanoic acid (PFDoA)	No	---	---	---	2.00	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	No	---	---	---	2.00	ng/L
Perfluoroheptanoic acid (PFHpA)	No	1.10	1.25	1.30	2.00	ng/L
Perfluorohexanesulfonic acid (PFHxS)	No	0.71	0.79	0.79	2.00	ng/L
Perfluorohexanoic acid (PFHxA)	No	1.50	1.50	1.60	2.00	ng/L
Perfluorononanoic acid (PFNA)	No	---	0.20	0.46	2.00	ng/L
Perfluorooctanesulfonic acid (PFOS)	Yes	2.30	2.55	2.60	2.00	ng/L
Perfluorooctanoic acid (PFOA)	Yes	2.10	2.35	2.60	2.00	ng/L
Perfluoropentanesulfonic acid (PFPeS)	No	---	---	---	2.00	ng/L
Perfluoropentanoic acid (PFPeA)	No	1.40	1.50	1.60	2.00	ng/L
Perfluorotetradecanoic acid (PFTeDA)	No	---	---	---	2.00	ng/L
Perfluorotridecanoic acid (PFTrDA or PFTRiA)	No	---	---	---	2.00	ng/L
Perfluoroundecanoic acid (PFUnA)	No	---	---	---	2.00	ng/L

Pharmaceuticals and Personal Care Products

Analyte	Detected Above MRL?	Min	Median	Max	MRL*	Units
17a-Estradiol	No	---	---	---	0.005	µg/L
17a-Ethynyl estradiol	No	---	---	---	0.010	µg/L
4-Nonylphenol	No	---	---	---	0.200	µg/L
4-Phenylphenol	No	---	---	---	0.050	µg/L
4-tert-Octylphenol	No	---	---	---	0.020	µg/L
Acesulfame-K	Yes	0.021	0.025	0.028	0.020	µg/L
Acetaminophen	No	---	---	---	0.02	µg/L
Amoxicillin	No	---	---	---	1.00	µg/L

Androstenedione	No	---	---	---	0.005	µg/L
Antipyrine	No	---	---	---	0.005	µg/L
Atenolol	No	---	---	---	0.005	µg/L
Azithromycin	No	---	---	---	0.010	µg/L
Bezafibrate	No	---	---	---	0.005	µg/L
Bisphenol A	No	---	---	---	0.020	µg/L
Caffeine	No	---	---	---	0.010	µg/L
Carbadox	No	---	---	---	0.005	µg/L
Carbamazepine	No	---	---	---	0.005	µg/L
Chloramphenicol	No	---	---	---	0.005	µg/L
Cimetidine	No	---	---	---	0.005	µg/L
Clofibric acid	No	---	---	---	0.005	µg/L
Codeine	No	---	---	---	0.005	µg/L
Cotinine	No	---	---	---	0.005	µg/L
DEET	No	---	---	---	0.010	µg/L
Dexamethasone	No	---	---	---	0.005	µg/L
Diazepam	No	---	---	---	0.005	µg/L
Diclofenac acid	No	---	---	---	0.005	µg/L
Diethylstilbestrol (DES)	No	---	---	---	0.010	µg/L
Dilantin	No	---	---	---	0.010	µg/L
Diltiazem	Yes	---	0.070	0.140	0.010	µg/L
Diphenhydramine	No	---	---	---	0.005	µg/L
Epitestosterone	No	---	---	---	0.005	µg/L
Equilin	No	---	---	---	0.010	µg/L
Erythromycin	No	---	---	---	0.020	µg/L
Estradiol	No	---	---	---	0.010	µg/L
Estriol	No	---	---	---	0.010	µg/L
Estrone	No	---	---	---	0.005	µg/L
Fluoxetine (Prozac)	No	---	---	---	0.005	µg/L
Gemfibrozil	No	---	---	---	0.005	µg/L
Ibuprofen	No	---	---	---	0.020	µg/L
Iohexol	No	---	---	---	0.050	µg/L
Iopromide	No	---	---	---	0.010	µg/L
Levothyroxine (Synthroid)	No	---	---	---	0.020	µg/L
Lincomycin	No	---	---	---	0.005	µg/L
Meprobamate	No	---	---	---	0.005	µg/L
Metformin	Yes	0.017	0.025	0.032	0.020	µg/L
Monensin	No	---	---	---	0.005	µg/L
Naproxen	No	---	---	---	0.020	µg/L
Narasin	No	---	---	---	0.020	µg/L
Nicotine	No	---	---	---	0.400	µg/L
Oleandomycin	No	---	---	---	0.005	µg/L

Paraxanthine	No	---	---	---	0.020	µg/L
Penicillin G	No	---	---	---	0.010	µg/L
Penicillin V	No	---	---	---	0.010	µg/L
Pentachlorophenol	No	---	---	---	0.050	µg/L
Prednisone	No	---	---	---	0.005	µg/L
Primidone	No	---	---	---	0.005	µg/L
Progesterone	No	---	---	---	0.005	µg/L
Quinoline	No	---	---	---	0.050	µg/L
Roxithromycin	No	---	---	---	0.005	µg/L
Salicylic acid	No	---	---	---	0.200	µg/L
Salinomycin	No	---	---	---	0.020	µg/L
Sucralose	No	0.080	0.083	0.085	0.100	µg/L
Sulfadiazine	No	---	---	---	0.005	µg/L
Sulfadimethoxine	No	---	---	---	0.005	µg/L
Sulfamerazine	No	---	---	---	0.010	µg/L
Sulfamethazine	No	---	---	---	0.005	µg/L
Sulfamethizole	No	---	---	---	0.010	µg/L
Sulfamethoxazole	No	---	---	---	0.010	µg/L
Sulfasalazine	No	---	---	---	0.050	µg/L
Sulfathiazole	No	---	---	---	0.005	µg/L
TCDPP	No	---	---	---	0.400	µg/L
TCEP (Tris(chloropropyl) phosphate)	No	---	---	---	0.010	µg/L
TCPP (Tris(2-chloroisopropyl)phosphate)	No	---	---	---	0.400	µg/L
Testosterone	No	---	---	---	0.005	µg/L
Tetrabromobisphenol A	No	---	---	---	0.050	µg/L
Theobromine	No	---	---	---	0.400	µg/L
Theophylline	No	---	---	---	0.020	µg/L
Trichlorophenols, Total	No	---	---	---	0.100	µg/L
Triclocarban	No	---	---	---	0.050	µg/L
Triclosan	No	---	---	---	0.050	µg/L
Trimethoprim	No	---	---	---	0.005	µg/L
Tylosin	No	---	---	---	0.005	µg/L
Virginiamycin M1	No	---	---	---	0.005	µg/L

Semi-Volatile Organic Compounds

Analyte	Detected Above MRL?	Min	Median	Max	MRL*	Units
1,2,4,5-Tetrachlorobenzene	No	---	---	---	0.99	µg/L
1-Methylnaphthalene	No	---	---	---	0.10	µg/L
1-Naphthol	No	---	---	---	1.00	µg/L

2,2',3,3',4,4',6-Heptachlorobiphenyl	No	---	---	---	0.49	µg/L
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	No	---	---	---	0.49	µg/L
2,2',3',4,6-Pentachlorobiphenyl	No	---	---	---	0.10	µg/L
2,2',4,4',5,6'-Hexachlorobiphenyl	No	---	---	---	0.10	µg/L
2,2',4,4'-Tetrachlorobiphenyl	No	---	---	---	0.10	µg/L
2,3-Dichlorobiphenyl	No	---	---	---	0.10	µg/L
2,4,5-TP (Silvex)	No	---	---	---	0.10	µg/L
2,4,5-Trichlorobiphenyl	No	---	---	---	0.01	µg/L
2,4-D	No	---	---	---	0.10	µg/L
2,4-Dinitrotoluene	No	---	---	---	0.49	µg/L
2,6-Dinitrotoluene	No	---	---	---	0.49	µg/L
2-Chlorobiphenyl	No	---	---	---	0.10	µg/L
2-Methylnaphthalene	No	---	---	---	0.10	µg/L
3-Hydroxycarbofuran	No	---	---	---	0.50	µg/L
4,4'-DDD	No	---	---	---	0.10	µg/L
4,4'-DDE	No	---	---	---	0.10	µg/L
4,4'-DDT	No	---	---	---	0.10	µg/L
Acenaphthene	No	---	---	---	0.10	µg/L
Acenaphthylene	No	---	---	---	0.10	µg/L
Acetochlor	No	---	---	---	0.10	µg/L
Alachlor	No	---	---	---	0.10	µg/L
Aldicarb	No	---	---	---	0.50	µg/L
Aldicarb sulfone	No	---	---	---	0.70	µg/L
Aldicarb sulfoxide	No	---	---	---	0.50	µg/L
Aldrin	No	---	---	---	0.10	µg/L
alpha-BHC	No	---	---	---	0.10	µg/L
alpha-Chlordane	No	---	---	---	0.10	µg/L
Ametryn	No	---	---	---	0.10	µg/L
Anilazine	No	---	---	---	0.99	µg/L
Anthracene	No	---	---	---	0.10	µg/L
Aspon	No	---	---	---	0.10	µg/L
Atraton	No	---	---	---	0.10	µg/L
Atrazine	No	0.029	0.031	0.033	0.096	µg/L
Azinphos-ethyl	No	---	---	---	0.49	µg/L
Azinphos-methyl	No	---	---	---	0.49	µg/L
Bendiocarb	No	---	---	---	0.49	µg/L
Benfluralin	No	---	---	---	0.10	µg/L
Benzo(a)anthracene	No	---	---	---	0.10	µg/L
Benzo(a)pyrene	No	---	---	---	0.02	µg/L
Benzo(b)fluoranthene	No	---	---	---	0.10	µg/L

Benzo(g,h,i)perylene	No	---	---	---	0.10	µg/L
Benzo(k)fluoranthene	No	---	---	---	0.10	µg/L
beta-BHC	No	---	---	---	0.10	µg/L
Bolstar	No	---	---	---	0.10	µg/L
Bromacil	No	---	---	---	0.10	µg/L
Butachlor	No	---	---	---	0.10	µg/L
Butylate	No	---	---	---	0.10	µg/L
Butylbenzylphthalate	No	---	---	---	0.99	µg/L
Carbaryl	No	---	---	---	0.50	µg/L
Carbofuran	No	---	---	---	0.90	µg/L
Carbophenothion	No	---	---	---	0.49	µg/L
Carboxin	No	---	---	---	0.10	µg/L
Chlordane	No	---	---	---	0.10	µg/L
Chlorfenvinphos	No	---	---	---	4.90	µg/L
Chlorobenzilate	No	---	---	---	0.10	µg/L
Chloroneb	No	---	---	---	0.10	µg/L
Chloropropylate	No	---	---	---	0.10	µg/L
Chlorothalonil	No	---	---	---	0.10	µg/L
Chlorpropham	No	---	---	---	0.10	µg/L
Chlorpyrifos	No	---	---	---	0.10	µg/L
Chlorpyrifos methyl	No	---	---	---	0.49	µg/L
Chrysene	No	---	---	---	0.10	µg/L
cis-Nonachlor	No	---	---	---	0.10	µg/L
cis-Permethrin	No	---	---	---	0.10	µg/L
Clomazone	No	---	---	---	0.10	µg/L
Coumaphos	No	---	---	---	0.10	µg/L
Crotoxyphos	No	---	---	---	0.49	µg/L
Cyanazine	No	---	---	---	0.10	µg/L
Cycloate	No	---	---	---	0.10	µg/L
Dalapon	No	---	---	---	1.00	µg/L
DCPA	No	---	---	---	0.10	µg/L
delta-BHC	No	---	---	---	0.10	µg/L
Demeton-O	No	---	---	---	0.49	µg/L
Demeton-S	No	---	---	---	0.49	µg/L
Desethylatrazine	No	0.025	0.025	0.025	0.97	µg/L
Desisopropylatrazine	No	---	---	---	0.99	µg/L
Di(2-ethylhexyl)adipate	No	---	---	---	0.59	µg/L
Di(2-ethylhexyl)phthalate	No	---	---	---	0.59	µg/L
Diazinon	No	---	---	---	0.10	µg/L
Dibenzo(a,h)anthracene	No	---	---	---	0.10	µg/L
Dicamba	No	---	---	---	0.10	µg/L
Dichlobenil	No	---	---	---	0.10	µg/L

Dichlofenthion	No	---	---	---	0.10	µg/L
Dichloran	No	---	---	---	0.49	µg/L
Dichlorvos	No	---	---	---	0.10	µg/L
Dicrotophos	No	---	---	---	0.49	µg/L
Dieldrin	No	---	---	---	0.10	µg/L
Diethylphthalate	No	---	---	---	0.99	µg/L
Dimethoate	No	---	---	---	0.49	µg/L
Dimethylphthalate	No	---	---	---	0.99	µg/L
Di-n-butyl phthalate	No	---	---	---	2.00	µg/L
Di-n-octyl phthalate	No	---	---	---	2.00	µg/L
Dinoseb	No	---	---	---	0.10	µg/L
Dioxathion	No	---	---	---	0.49	µg/L
Diphenamid	No	---	---	---	0.10	µg/L
Diquat	No	---	---	---	0.40	µg/L
Disulfoton	No	---	---	---	0.10	µg/L
Disulfoton sulfone	No	---	---	---	0.10	µg/L
Disulfoton sulfoxide	No	---	---	---	9.90	µg/L
Dyfonate (Fonofos)	No	---	---	---	0.10	µg/L
Endosulfan I	No	---	---	---	0.10	µg/L
Endosulfan II	No	---	---	---	0.10	µg/L
Endosulfan sulfate	No	---	---	---	0.10	µg/L
Endothall	No	---	---	---	5.00	µg/L
Endrin	No	---	---	---	0.01	µg/L
Endrin aldehyde	No	---	---	---	0.49	µg/L
E-Phosphamidon	No	---	---	---	0.49	µg/L
EPN	No	---	---	---	0.49	µg/L
EPTC	No	---	---	---	0.10	µg/L
Erucylamide	No	1.50	1.70	1.90	4.90	µg/L
Esfenvalerate	No	---	---	---	0.49	µg/L
Ethalfuralin	No	---	---	---	0.10	µg/L
Ethion	No	---	---	---	4.90	µg/L
Ethofumesate	No	---	---	---	0.49	µg/L
Ethoprop	No	---	---	---	0.10	µg/L
Etridiazole	No	---	---	---	0.10	µg/L
Famphur	No	---	---	---	0.10	µg/L
Fenamiphos	No	---	---	---	0.10	µg/L
Fenarimol	No	---	---	---	0.99	µg/L
Fenitrothion	No	---	---	---	0.49	µg/L
Fenoxaprop-ethyl	No	---	---	---	0.99	µg/L
Fensulfothion	No	---	---	---	0.49	µg/L
Fenthion	No	---	---	---	0.10	µg/L
Fluazifop-butyl	No	---	---	---	0.10	µg/L

Fluchloralin	No	---	---	---	0.10	µg/L
Fluometuron	No	---	---	---	0.49	µg/L
Fluoranthene	No	---	---	---	0.10	µg/L
Fluorene	No	---	---	---	0.10	µg/L
Fluridone	No	---	---	---	0.99	µg/L
gamma-BHC (Lindane)	No	---	---	---	0.02	µg/L
gamma-Chlordane	No	---	---	---	0.10	µg/L
Glyphosate	No	---	---	---	6.00	µg/L
Heptachlor	No	---	---	---	0.04	µg/L
Heptachlor epoxide	No	---	---	---	0.02	µg/L
Hexachlorobenzene	No	---	---	---	0.10	µg/L
Hexachlorocyclopentadiene	No	---	---	---	0.10	µg/L
Hexazinone	No	---	---	---	0.10	µg/L
Indeno(1,2,3-cd)pyrene	No	---	---	---	0.10	µg/L
Iprodione	No	---	---	---	0.49	µg/L
Isophenophos	No	---	---	---	0.49	µg/L
Isophorone	No	---	---	---	0.10	µg/L
Leptophos	No	---	---	---	0.49	µg/L
Malathion	No	---	---	---	0.10	µg/L
Metalaxyl	No	---	---	---	0.49	µg/L
Methomyl	No	---	---	---	0.50	µg/L
Methoxychlor	No	---	---	---	0.10	µg/L
Methyl paraoxon	No	---	---	---	0.49	µg/L
Methyl parathion	No	---	---	---	0.49	µg/L
Metolachlor	No	---	---	---	0.10	µg/L
Metribuzin	No	---	---	---	0.10	µg/L
Metsulfuron-methyl	No	---	---	---	9.90	µg/L
Mevinphos	No	---	---	---	0.10	µg/L
MGK 264 isomer a	No	---	---	---	0.10	µg/L
MGK 264 isomer b	No	---	---	---	0.10	µg/L
MGK 326	No	---	---	---	0.10	µg/L
Mirex	No	---	---	---	0.49	µg/L
Molinate	No	---	---	---	0.10	µg/L
Monocrotophos	No	---	---	---	0.49	µg/L
Naled	No	---	---	---	0.49	µg/L
Naphthalene	No	---	---	---	0.05	µg/L
Napropamide	No	---	---	---	0.10	µg/L
Norflurazon	No	---	---	---	0.99	µg/L
Oryzalin	No	---	---	---	9.90	µg/L
Oxadiazon	No	---	---	---	0.10	µg/L
Oxamyl	No	---	---	---	1.00	µg/L
Oxychlordane	No	---	---	---	0.10	µg/L

Oxyfluorfen	No	---	---	---	0.49	µg/L
Paraquat	No	---	---	---	0.40	µg/L
Parathion	No	---	---	---	0.49	µg/L
PCB-1016	No	---	---	---	0.08	µg/L
PCB-1221	No	---	---	---	0.10	µg/L
PCB-1232	No	---	---	---	0.10	µg/L
PCB-1242	No	---	---	---	0.10	µg/L
PCB-1248	No	---	---	---	0.10	µg/L
PCB-1254	No	---	---	---	0.10	µg/L
PCB-1260	No	---	---	---	0.10	µg/L
Pebulate	No	---	---	---	0.10	µg/L
Pendimethalin	No	---	---	---	0.10	µg/L
Pentachlorobenzene	No	---	---	---	0.49	µg/L
Pentachloronitrobenzene	No	---	---	---	0.49	µg/L
Pentachlorophenol	No	---	---	---	0.99	µg/L
Phenanthrene	No	---	---	---	0.097	µg/L
Phorate	No	---	---	---	0.10	µg/L
Phosmet	No	---	---	---	0.49	µg/L
Picloram	No	---	---	---	0.10	µg/L
Profluralin	No	---	---	---	0.10	µg/L
Prometon	No	---	---	---	0.99	µg/L
Prometryn	No	---	---	---	0.10	µg/L
Pronamide	No	---	---	---	0.10	µg/L
Propachlor	No	---	---	---	0.10	µg/L
Propanil	No	---	---	---	0.49	µg/L
Propazine	No	---	---	---	0.10	µg/L
Propiconazole a	No	---	---	---	4.90	µg/L
Propiconazole b	No	---	---	---	4.90	µg/L
Pyrene	No	---	---	---	0.10	µg/L
Simazine	No	---	---	---	0.07	µg/L
Simetryn	No	---	---	---	0.10	µg/L
Stirophos	No	---	---	---	0.10	µg/L
Sulfotepp	No	---	---	---	0.49	µg/L
Tebuthiuron	No	---	---	---	9.90	µg/L
TEPP	No	---	---	---	0.99	µg/L
Terbacil	No	---	---	---	0.10	µg/L
Terbufos	No	---	---	---	0.49	µg/L
Terbutryn	No	---	---	---	0.10	µg/L
Thiabendazole	No	---	---	---	9.90	µg/L
Thiobencarb	No	---	---	---	0.10	µg/L
Thionazin	No	---	---	---	0.49	µg/L
Tokuthion (Prothiofos)	No	---	---	---	0.49	µg/L

Total PCBs as DCB	No	---	---	---	0.10	µg/L
Toxaphene	No	---	---	---	0.50	µg/L
trans-Nonachlor	No	---	---	---	0.10	µg/L
trans-Permethrin	No	---	---	---	0.10	µg/L
Triadimefon	No	---	---	---	0.49	µg/L
Trichloronate	No	---	---	---	0.49	µg/L
Tricyclazole	No	---	---	---	0.99	µg/L
Trifluralin	No	---	---	---	0.10	µg/L
Vernolate	No	---	---	---	0.10	µg/L
Vinclozolin	No	---	---	---	0.49	µg/L
Z-Phosphamidon	No	---	---	---	0.49	µg/L

Volatile Organic Compounds

Analyte	Detected Above MRL?	Min	Median	Max	MRL*	Units
1,1,1,2-Tetrachloroethane	No	---	---	---	0.50	µg/L
1,1,1-Trichloroethane	No	---	---	---	0.50	µg/L
1,1,2,2-Tetrachloroethane	No	---	---	---	0.50	µg/L
1,1,2-Trichloro-1,2,2-trifluoroethane	No	---	---	---	0.50	µg/L
1,1,2-Trichloroethane	No	---	---	---	0.50	µg/L
1,1-Dichloroethane	No	---	---	---	0.50	µg/L
1,1-Dichloropropanone	No	---	---	---	5.00	µg/L
1,1-Dichloropropene	No	---	---	---	0.50	µg/L
1,2,3-Trichlorobenzene	No	---	---	---	0.50	µg/L
1,2,3-Trichloropropane	No	---	---	---	0.50	µg/L
1,2,3-Trimethylbenzene	No	---	---	---	0.50	µg/L
1,2,4-Trichlorobenzene	No	---	---	---	0.50	µg/L
1,2,4-Trimethylbenzene	No	---	---	---	0.50	µg/L
1,2-Dibromo-3-chloropropane (DBCP)	No	---	---	---	0.20	µg/L
1,2-Dibromoethane (EDB)	No	---	---	---	0.20	µg/L
1,2-Dichlorobenzene	No	---	---	---	0.50	µg/L
1,2-Dichloroethane	No	---	---	---	0.50	µg/L
1,2-Dichloropropane	No	---	---	---	0.25	µg/L
1,3,5-Trimethylbenzene	No	---	---	---	0.50	µg/L
1,3-Butadiene	No	---	---	---	5.00	µg/L
1,3-Dichlorobenzene	No	---	---	---	0.50	µg/L
1,3-Dichloropropane	No	---	---	---	0.50	µg/L
1,4-Dichlorobenzene	No	---	---	---	0.50	µg/L
1,4-Dioxane	No	---	---	---	5.00	µg/L
1-Chlorobutane	No	---	---	---	5.00	µg/L
2,2-Dichloropropane	No	---	---	---	0.50	µg/L

2-Butanone (MEK)	No	---	---	---	5.00	µg/L
2-Chlorotoluene	No	---	---	---	0.50	µg/L
2-Hexanone	No	---	---	---	5.00	µg/L
2-Nitropropane	No	---	---	---	2.00	µg/L
4-Chlorotoluene	No	---	---	---	0.50	µg/L
4-Isopropyltoluene	No	---	---	---	0.50	µg/L
4-Methyl-2-pentanone (MIBK)	No	---	---	---	2.00	µg/L
Acetone	No	---	---	---	5.00	µg/L
Acrylonitrile	No	---	---	---	1.00	µg/L
Allyl chloride	No	---	---	---	5.00	µg/L
Benzene	No	---	---	---	0.50	µg/L
Benzyl chloride	No	---	---	---	0.50	µg/L
Bis(2-chloroethyl)ether	No	---	---	---	2.00	µg/L
Bromobenzene	No	---	---	---	0.50	µg/L
Bromochloromethane	No	---	---	---	0.50	µg/L
Bromomethane	No	---	---	---	0.50	µg/L
Carbon disulfide	No	---	---	---	0.50	µg/L
Carbon tetrachloride	No	---	---	---	0.50	µg/L
Chloroacetonitrile	No	---	---	---	5.00	µg/L
Chlorobenzene	No	---	---	---	0.50	µg/L
Chloroethane	No	---	---	---	0.50	µg/L
Chloromethane	No	---	---	---	0.50	µg/L
Chloroprene	No	---	---	---	5.00	µg/L
cis-1,2-Dichloroethylene	No	---	---	---	0.50	µg/L
cis-1,3-Dichloropropylene	No	---	---	---	0.50	µg/L
Cyclohexanone - 524.2	No	---	---	---	5.00	µg/L
Dibromomethane	No	---	---	---	0.50	µg/L
Dichlorodifluoromethane	No	---	---	---	0.50	µg/L
Dichloromethane	No	---	---	---	0.50	µg/L
Epichlorohydrin	No	---	---	---	1.00	µg/L
Ethyl acrylate	No	---	---	---	1.00	µg/L
Ethyl ether	No	---	---	---	2.00	µg/L
Ethyl methacrylate	No	---	---	---	1.00	µg/L
Ethyl tert-butyl ether	No	---	---	---	2.00	µg/L
Ethylbenzene	No	---	---	---	0.50	µg/L
Hexachlorobutadiene	No	---	---	---	0.25	µg/L
Hexachloroethane	No	---	---	---	2.00	µg/L
Isopropyl ether	No	---	---	---	0.50	µg/L
Isopropylbenzene	No	---	---	---	0.25	µg/L
Methacrylonitrile	No	---	---	---	5.00	µg/L
Methyl acrylate	No	---	---	---	1.00	µg/L
Methyl iodide	No	---	---	---	2.00	µg/L

Methyl methacrylate	No	---	---	---	1.00	µg/L
Methyl tert-butyl ether (MTBE)	No	---	---	---	0.50	µg/L
m-Xylene & p-Xylene	No	---	---	---	0.50	µg/L
Naphthalene	No	---	---	---	0.10	µg/L
n-Butyl acrylate	No	---	---	---	1.00	µg/L
n-Butylbenzene	No	---	---	---	0.50	µg/L
Nitrobenzene	No	---	---	---	5.00	µg/L
n-Propylbenzene	No	---	---	---	0.50	µg/L
o-Xylene	No	---	---	---	0.50	µg/L
Pentachloroethane	No	---	---	---	2.00	µg/L
Propionitrile	No	---	---	---	5.00	µg/L
sec-Butylbenzene	No	---	---	---	0.50	µg/L
Styrene	No	---	---	---	0.50	µg/L
tert-Amyl methyl ether	No	---	---	---	3.00	µg/L
tert-Butyl alcohol	No	---	---	---	2.00	µg/L
tert-Butylbenzene	No	---	---	---	0.50	µg/L
Tetrachloroethene	No	---	---	---	0.50	µg/L
Tetrahydrofuran	No	---	---	---	5.00	µg/L
Toluene	No	---	---	---	0.50	µg/L
trans-1,2-Dichloroethylene	No	---	---	---	0.50	µg/L
trans-1,3-Dichloropropylene	No	---	---	---	0.50	µg/L
trans-1,4-Dichloro-2-butylene	No	---	---	---	5.00	µg/L
Trichloroethylene	No	---	---	---	0.50	µg/L
Trichlorofluoromethane	No	---	---	---	0.50	µg/L
Vinyl acetate	No	---	---	---	5.00	µg/L
Vinyl chloride	No	---	---	---	0.20	µg/L