

The method detection limit (MDL) is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.

The Routine Reporting Limit (RL) is the lowest reported value for a particular parameter. This value is based on the lowest calibration point.

All values assume that samples are run at no dilution.

Drinking Water Parameters

Organics				
Analyte	Method	Technique	Calculated MDL	Routine Reporting Limit
1,2-Dibromoethane	504.1	GC/ECD	0.008 µg/l	0.01 µg/l
1,2-Dibromo-3-chloropropane	504.1	GC/ECD	0.008 µg/l	0.01 µg/l
1,2,3-Trichloropropane	504.1	GC/ECD	0.007 µg/l	0.01 µg/l

Drinking Water Parameters

Organics				
Analyte	Method	Technique	Calculated MDL	Routine Reporting Limit
AlphaBHC	505	GC/ECD	0.09 µg/l	0.1 µg/l
BetaBHC	505	GC/ECD	0.09 µg/l	0.1 µg/l
Lindane	505	GC/ECD	0.09 µg/l	0.1 µg/l
DeltaBHC	505	GC/ECD	0.07 µg/l	0.1 µg/l
Heptachlor	505	GC/ECD	0.09 µg/l	0.1 µg/l
Aldrin	505	GC/ECD	0.08 µg/l	0.1 µg/l
HeptachlorEpoxide	505	GC/ECD	0.08 µg/l	0.1 µg/l
Endosulfan1	505	GC/ECD	0.09 µg/l	0.1 µg/l
DDE	505	GC/ECD	0.07 µg/l	0.1 µg/l
Dieldrin	505	GC/ECD	0.08 µg/l	0.1 µg/l
Endrin	505	GC/ECD	0.08 µg/l	0.1 µg/l
Endosulfan2	505	GC/ECD	0.09 µg/l	0.1 µg/l
DDD	505	GC/ECD	0.07 µg/l	0.1 µg/l
EndrinAldehyde	505	GC/ECD	0.08 µg/l	0.1 µg/l
EndosulfanSulfate	505	GC/ECD	0.09 µg/l	0.1 µg/l
DDT	505	GC/ECD	0.08 µg/l	0.1 µg/l
EndrinKetone	505	GC/ECD	0.09 µg/l	0.1 µg/l
Methoxychlor	505	GC/ECD	0.08 µg/l	0.1 µg/l
Chlordane	505	GC/ECD	0.09 µg/l	0.1 µg/l
Toxaphene	505	GC/ECD	0.18 µg/l	0.5 µg/l
PCB 1016	505	GC/ECD	0.08 µg/l	0.1 µg/l
PCB 1260	505	GC/ECD	0.09 µg/l	0.1 µg/l
Analyte	Method	Technique	Calculated MDL	Routine Reporting Limit
Dichlorodifluoromethane	524.2	GC/MS	0.13 µg/l	0.5 µg/l
Chloromethane	524.2	GC/MS	0.12 µg/l	0.5 µg/l
Vinyl Chloride	524.2	GC/MS	0.14 µg/l	0.5 µg/l

Bromomethane	524.2	GC/MS	0.23 µg/l	0.5 µg/l
Cloroethane	524.2	GC/MS	0.25 µg/l	0.5 µg/l
Trichlorofluormethane	524.2	GC/MS	0.14 µg/l	0.5 µg/l
1,1-Dichloroethylene	524.2	GC/MS	0.12 µg/l	0.5 µg/l
Methylene Chloride	524.2	GC/MS	0.08 µg/l	0.5 µg/l
MTBE	524.2	GC/MS	0.11 µg/l	0.5 µg/l
t-1,2-Dichloroethylene	524.2	GC/MS	0.16 µg/l	0.5 µg/l
Isopropyl Ether	524.2	GC/MS	0.06 µg/l	0.5 µg/l
1,1-Dichloroethane	524.2	GC/MS	0.08 µg/l	0.5 µg/l
2,2-Dichloropropane	524.2	GC/MS	0.08 µg/l	0.5 µg/l
c-1,2-Dichloroethylene	524.2	GC/MS	0.15 µg/l	0.5 µg/l
Chloroform	524.2	GC/MS	0.21 µg/l	0.5 µg/l
Bromochloromethane	524.2	GC/MS	0.17 µg/l	0.5 µg/l
1,1,1-Trichloroethane	524.2	GC/MS	0.04 µg/l	0.5 µg/l
1,1-Dichloropropylene	524.2	GC/MS	0.10 µg/l	0.5 µg/l
Carbon Tetrachloride	524.2	GC/MS	0.09 µg/l	0.5 µg/l
Benzene	524.2	GC/MS	0.12 µg/l	0.5 µg/l
1,2-Dichloroethane	524.2	GC/MS	0.13 µg/l	0.5 µg/l
Trichloroethylene	524.2	GC/MS	0.14 µg/l	0.5 µg/l
1,2-Dichloropropane	524.2	GC/MS	0.17 µg/l	0.5 µg/l
Bromodichloromethane	524.2	GC/MS	0.11 µg/l	0.5 µg/l
Dibromomethane	524.2	GC/MS	0.12 µg/l	0.5 µg/l
c-1,3-Dichloropropylene	524.2	GC/MS	0.06 µg/l	0.5 µg/l
Toluene	524.2	GC/MS	0.33 µg/l	0.5 µg/l
t-1,3-Dichloropropylene	524.2	GC/MS	0.14 µg/l	0.5 µg/l
1,1,2-Trichloroethane	524.2	GC/MS	0.15 µg/l	0.5 µg/l
Tetrachloroethylene	524.2	GC/MS	0.10 µg/l	0.5 µg/l
1,3-Dichloropropane	524.2	GC/MS	0.16 µg/l	0.5 µg/l
Dibromochloromethane	524.2	GC/MS	0.09 µg/l	0.5 µg/l
1,2-Dibromomethane	524.2	GC/MS	0.05 µg/l	0.5 µg/l
Chlorobenzene	524.2	GC/MS	0.11 µg/l	0.5 µg/l
Ethyl Benzene	524.2	GC/MS	0.12 µg/l	0.5 µg/l
1,1,1,2-Tetrachloroethane	524.2	GC/MS	0.14 µg/l	0.5 µg/l
m&p-Xylene	524.2	GC/MS	0.21 µg/l	0.5 µg/l
o-Xylene	524.2	GC/MS	0.10 µg/l	0.5 µg/l
Styrene	524.2	GC/MS	0.10 µg/l	0.5 µg/l
Isopropyl Benzene	524.2	GC/MS	0.16 µg/l	0.5 µg/l
Bromoform	524.2	GC/MS	0.12 µg/l	0.5 µg/l
1,1,2,2-Tetrachloroethane	524.2	GC/MS	0.11 µg/l	0.5 µg/l
n-Propyl Benzene	524.2	GC/MS	0.09 µg/l	0.5 µg/l
1,2,3-Trichloropropane	524.2	GC/MS	0.20 µg/l	0.5 µg/l
Bromobenzene	524.2	GC/MS	0.11 µg/l	0.5 µg/l
1,3,5-Trimethylbenzene	524.2	GC/MS	0.12 µg/l	0.5 µg/l

2-Chlorotoluene	524.2	GC/MS	0.10 µg/l	0.5 µg/l
4-Chlorotoluene	524.2	GC/MS	0.11 µg/l	0.5 µg/l
tert-Butylbenzene	524.2	GC/MS	0.11 µg/l	0.5 µg/l
1,2,4-Trimethylbenzene	524.2	GC/MS	0.10 µg/l	0.5 µg/l
sec-Btylbenzene	524.2	GC/MS	0.09 µg/l	0.5 µg/l
p-Isopropylbenzene	524.2	GC/MS	0.07 µg/l	0.5 µg/l
1,3-Dichlorobenzene	524.2	GC/MS	0.06 µg/l	0.5 µg/l
1,4-Dichlorobenzene	524.2	GC/MS	0.11 µg/l	0.5 µg/l
n-Butylbenzene	524.2	GC/MS	0.09 µg/l	0.5 µg/l
1,2-Dichlorobenzene	524.2	GC/MS	0.10 µg/l	0.5 µg/l
1,2-Dibromo-3-chloropropane	524.2	GC/MS	0.19 µg/l	0.5 µg/l
1,2,4-Trichlorobenzene	524.2	GC/MS	0.14 µg/l	0.5 µg/l
Hexaxhlorobutadiene	524.2	GC/MS	0.11 µg/l	0.5 µg/l
Napthalene	524.2	GC/MS	0.14 µg/l	0.5 µg/l
1,2,3-Trichlorobenzene	524.2	GC/MS	0.12 µg/l	0.5 µg/l
Tert-butyl alcohol	524.2	GC/MS	2.91 µg/l	10.0 µg/l
Analyte	Method	Technique	Calculated MDL	Routine Reporting Limit
Monochloroacetic Acid	552.2	GC/ECD	0.95 µg/l	2.0 µg/l
Monobromoacetic Acid	552.2	GC/ECD	0.53 µg/l	1.0 µg/l
Dichloroacetic Acid	552.2	GC/ECD	0.30 µg/l	1.0 µg/l
Dalapon	552.2	GC/ECD	0.24 µg/l	1.0 µg/l
Trichloroacetic Acid	552.2	GC/ECD	0.20 µg/l	1.0 µg/l
Bromochloroacetic Acid	552.2	GC/ECD	0.18 µg/l	1.0 µg/l
Bromodichloroacetic Acid	552.2	GC/ECD	0.56 µg/l	1.0 µg/l
Dibromoacetic Acid	552.2	GC/ECD	0.16 µg/l	1.0 µg/l
Chlorodibromoacetic Acid	552.2	GC/ECD	0.92 µg/l	1.0 µg/l

Non-potable Parameters

Organics				
Analyte	Method	Technique	Calculated MDL	Routine Reporting Limit
AlphaBHC	608.3	GC/ECD	0.014 µg/l	0.02 µg/l
BetaBHC	608.3	GC/ECD	0.019 µg/l	0.02 µg/l
Lindane	608.3	GC/ECD	0.017 µg/l	0.02 µg/l
DeltaBHC	608.3	GC/ECD	0.016 µg/l	0.02 µg/l
Heptachlor	608.3	GC/ECD	0.016 µg/l	0.02 µg/l
Aldrin	608.3	GC/ECD	0.018 µg/l	0.02 µg/l
Malathion	608.3	GC/ECD	0.012 µg/l	0.02 µg/l
HeptachlorEpoxide	608.3	GC/ECD	0.019 µg/l	0.02 µg/l
DDE	608.3	GC/ECD	0.018 µg/l	0.02 µg/l
Endosulfan1	608.3	GC/ECD	0.017 µg/l	0.02 µg/l
Dieldrin	608.3	GC/ECD	0.012 µg/l	0.02 µg/l
Endrin	608.3	GC/ECD	0.018 µg/l	0.02 µg/l
Endosulfan2	608.3	GC/ECD	0.019 µg/l	0.02 µg/l

DDD	608.3	GC/ECD	0.006 µg/l	0.02 µg/l
EndrinAldehyde	608.3	GC/ECD	0.016 µg/l	0.02 µg/l
Mirex	608.3	GC/ECD	0.019 µg/l	0.02 µg/l
EndosulfanSulfate	608.3	GC/ECD	0.017 µg/l	0.02 µg/l
DDT	608.3	GC/ECD	0.019 µg/l	0.02 µg/l
EndrinKetone	608.3	GC/ECD	0.019 µg/l	0.02 µg/l
Methoxichlor	608.3	GC/ECD	0.009 µg/l	0.02 µg/l
Chlordane	608.3	GC/ECD	0.038 µg/l	0.05 µg/l
Toxaphene	608.3	GC/ECD	0.024 µg/l	0.05 µg/l
PCB 1016	608.3	GC/ECD	0.043 µg/l	0.05 µg/l
PCB 1260	608.3	GC/ECD	0.033 µg/l	0.05 µg/l
Analyte	Method	Technique	Calculated MDL	Routine Reporting Limit
1,1-Dichloroethane	624.1	GC/MS	1.2 µg/l	2.0 µg/l
1,1-Dichloroethylene	624.1	GC/MS	1.7µg/l	2.0 µg/l
1,1,1-Trichloroethane	624.1	GC/MS	1.0 µg/l	2.0 µg/l
1,1,2-Trichloroethane	624.1	GC/MS	0.6 µg/l	2.0 µg/l
1,1,1,2-Tetrachloroethane	624.1	GC/MS	0.7 µg/l	2.0 µg/l
1,1,2,2-Tetrachloroethane	624.1	GC/MS	0.8 µg/l	2.0 µg/l
1,2-Dichlorobenzene	624.1	GC/MS	0.7 µg/l	2.0 µg/l
1,2-Dichloroethane	624.1	GC/MS	1.0 µg/l	2.0 µg/l
1,3-Dichloropropane	624.1	GC/MS	0.6 µg/l	2.0 µg/l
1,2-Dichloropropane	624.1	GC/MS	0.7 µg/l	2.0 µg/l
1,2,3 Trichlorobezene	624.1	GC/MS	1.0 µg/l	2.0 µg/l
1,3-Dichlorobenzene	624.1	GC/MS	0.6 µg/l	2.0 µg/l
1,4-Dichlorobenzene	624.1	GC/MS	0.6 µg/l	2.0 µg/l
2-Butanone	624.1	GC/MS	6.2 µg/l	10.0 µg/l
2-Chloroethyl Vinyl Ether	624.1	GC/MS	1.0 µg/l	2.0 µg/l
2-Hexanone	624.1	GC/MS	4.7 µg/l	10.0 µg/l
4-Methyl-2-Petanone	624.1	GC/MS	3.9 µg/l	10.0 µg/l
Acetone	624.1	GC/MS	42.0 µg/l	50.0 µg/l
Acrolein	624.1	GC/MS	19.6 µg/l	20.0 µg/l
Acrylonitrile	624.1	GC/MS	12.6 µg/l	20.0 µg/l
Amyl acetate	624.1	GC/MS	4.4 µg/l	10.0 µg/l
Benzene	624.1	GC/MS	0.6 µg/l	2.0 µg/l
Bromodichloromethane	624.1	GC/MS	0.7 µg/l	2.0 µg/l
Bromoform	624.1	GC/MS	0.7 µg/l	2.0 µg/l
Bromomethane	624.1	GC/MS	1.0 µg/l	2.0 µg/l
c-1,2-Dichloroethylene	624.1	GC/MS	1.1 µg/l	2.0 µg/l
c-1,3-Dichloropropylene	624.1	GC/MS	0.7 µg/l	2.0 µg/l
Carbon Disulfide	624.1	GC/MS	1.6 µg/l	2.0 µg/l
Carbon Tetrachloride	624.1	GC/MS	1.3 µg/l	2.0 µg/l
Chlorobenzene	624.1	GC/MS	0.6 µg/l	2.0 µg/l
Chloroethane	624.1	GC/MS	1.4 µg/l	2.0 µg/l

Chloroform	624.1	GC/MS	0.9 µg/l	2.0 µg/l
Chloromethane	624.1	GC/MS	0.4 µg/l	2.0 µg/l
Dibromochloromethane	624.1	GC/MS	0.5 µg/l	2.0 µg/l
Dibromomethane	624.1	GC/MS	0.7 µg/l	2.0 µg/l
Dichlorodifluoromethane	624.1	GC/MS	0.8 µg/l	2.0 µg/l
Ethanol	624.1	GC/MS	0.8 mg/l	1.0 mg/l
Ethyl Benzene	624.1	GC/MS	0.7 µg/l	2.0 µg/l
Etyl Acetate	624.1	GC/MS	1.6 µg/l	10.0 µg/l
Isopropyl Acetate	624.1	GC/MS	2.1 µg/l	10.0 µg/l
Isopropyl Ether	624.1	GC/MS	1.4 µg/l	2.0 µg/l
m&p-Xylene	624.1	GC/MS	1.5 µg/l	2.0 µg/l
Methylene Chloride	624.1	GC/MS	1.6 µg/l	2.0 µg/l
MTBE	624.1	GC/MS	1.2 µg/l	2.0 µg/l
Napthalene	624.1	GC/MS	1.7 µg/l	2.0 µg/l
o-Xylene	624.1	GC/MS	0.5 µg/l	2.0 µg/l
Styrene	624.1	GC/MS	0.5 µg/l	2.0 µg/l
t-1,2-Dichloroethylene	624.1	GC/MS	1.3 µg/l	2.0 µg/l
t-1,3-Dichloropropylene	624.1	GC/MS	0.7 µg/l	2.0 µg/l
Tetrachloroethylene	624.1	GC/MS	0.6 µg/l	2.0 µg/l
Toluene	624.1	GC/MS	0.7 µg/l	2.0 µg/l
Trichloroethylene	624.1	GC/MS	0.7 µg/l	2.0 µg/l
Trichlorofluoromethane	624.1	GC/MS	1.4 µg/l	2.0 µg/l
tert-Butyl alcohol	624.1	GC/MS	5.5 µg/l	2.0 µg/l
Vinyl Chloride	624.1	GC/MS	0.6 µg/l	2.0 µg/l
Analyte	Method	Technique	Calculated MDL	Routine Reporting Limit
Phenol	625.1	GC/MS	1.5 µg/l	5.0 µg/l
2-Chlorophenol	625.1	GC/MS	3.7 µg/l	5.0 µg/l
2-Nitrophenol	625.1	GC/MS	3.2 µg/l	5.0 µg/l
2,4-Dimethylphenol	625.1	GC/MS	4.2 µg/l	5.0 µg/l
2,4-dichlorophenol	625.1	GC/MS	2.1 µg/l	5.0 µg/l
4-Chloro-3-Methylphenol	625.1	GC/MS	1.4 µg/l	5.0 µg/l
2,4,6-Trichlorophenol	625.1	GC/MS	1.7 µg/l	5.0 µg/l
2,4,5-Trichlorophenol	625.1	GC/MS	1.2 µg/l	5.0 µg/l
2,4-Dinitrophenol	625.1	GC/MS	3.7 µg/l	5.0 µg/l
4-Nitrophenol	625.1	GC/MS	2.9 µg/l	5.0 µg/l
4,6-Dinitro-2-methylphenol	625.1	GC/MS	4.6 µg/l	5.0 µg/l
Pentachlorophenol	625.1	GC/MS	4.6 µg/l	5.0 µg/l
N-Nitroso-dimethylamine	625.1	GC/MS	0.6 µg/l	5.0 µg/l
Nitrosodiethylamine	625.1	GC/MS	1.3 µg/l	5.0 µg/l
Bis(2-chloroethyl)ether	625.1	GC/MS	1.5 µg/l	5.0 µg/l
N-Nitroso-di-n-butylamine	625.1	GC/MS	0.6 µg/l	5.0 µg/l
Bis(2-chloroisopropyl)ether	625.1	GC/MS	1.1 µg/l	5.0 µg/l
N-Nitrosodi-n-propyl amine	625.1	GC/MS	1.1 µg/l	5.0 µg/l

Hexachloroethane	625.1	GC/MS	0.5 µg/l	5.0 µg/l
N-Nitrosopyrrolidine	625.1	GC/MS	0.5 µg/l	5.0 µg/l
Nitrobenzene	625.1	GC/MS	1.2 µg/l	5.0 µg/l
Isophorone	625.1	GC/MS	0.6 µg/l	5.0 µg/l
Bis(2-chloroethoxy)methane	625.1	GC/MS	1.2 µg/l	5.0 µg/l
1,2,4-Trichlorobenzene	625.1	GC/MS	0.9 µg/l	5.0 µg/l
4-Chloroaniline	625.1	GC/MS	0.5 µg/l	5.0 µg/l
Naphthalene	625.1	GC/MS	0.8 µg/l	5.0 µg/l
Hexachlorobutadiene	625.1	GC/MS	0.9 µg/l	5.0 µg/l
1,2,4,5-Tetrachlorobenzene	625.1	GC/MS	0.9 µg/l	5.0 µg/l
Hexachlorocyclopentadiene	625.1	GC/MS	0.6 µg/l	5.0 µg/l
2-Chloronaphthalene	625.1	GC/MS	0.6 µg/l	5.0 µg/l
Dimethylphthalate	625.1	GC/MS	0.5 µg/l	5.0 µg/l
Acenaphthylene	625.1	GC/MS	0.8 µg/l	5.0 µg/l
2,6-Dinitrotoluene	625.1	GC/MS	0.4 µg/l	5.0 µg/l
Acenaphthene	625.1	GC/MS	0.9 µg/l	5.0 µg/l
Pentachlorobenzene	625.1	GC/MS	0.8 µg/l	5.0 µg/l
2,4-Dinitrotoluene	625.1	GC/MS	0.7 µg/l	5.0 µg/l
Fluorene	625.1	GC/MS	1.0 µg/l	5.0 µg/l
Diethylphthalate	625.1	GC/MS	1.1 µg/l	5.0 µg/l
4-chlorophenyl phenyl ether	625.1	GC/MS	0.5 µg/l	5.0 µg/l
N-Nitrosodiphenylamine	625.1	GC/MS	1.5 µg/l	5.0 µg/l
1,2-Diphenylhydrazine	625.1	GC/MS	0.8 µg/l	5.0 µg/l
4-bromophenyl phenyl ether	625.1	GC/MS	0.4 µg/l	5.0 µg/l
Hexachlorobenzene	625.1	GC/MS	1.6 µg/l	5.0 µg/l
Phenanthrene	625.1	GC/MS	1.0 µg/l	5.0 µg/l
Anthracene	625.1	GC/MS	1.7 µg/l	5.0 µg/l
Di-n-Butylphthalate	625.1	GC/MS	2.2 µg/l	5.0 µg/l
Fluoranthene	625.1	GC/MS	2.7 µg/l	5.0 µg/l
Pyrene	625.1	GC/MS	2.7 µg/l	5.0 µg/l
Benzidine	625.1	GC/MS	21.2 µg/l	5.0 µg/l
Butylbenzylphthalate	625.1	GC/MS	4.1 µg/l	5.0 µg/l
Benzo (a) anthracene	625.1	GC/MS	3.8 µg/l	5.0 µg/l
3,3'-Dichlorobenzidine	625.1	GC/MS	36.7 µg/l	5.0 µg/l
Chrysene	625.1	GC/MS	2.8 µg/l	5.0 µg/l
Bis(2-ethylhexyl)phthalate	625.1	GC/MS	3.9 µg/l	5.0 µg/l
Di-n-octylphthalate	625.1	GC/MS	3.8 µg/l	5.0 µg/l
Benzo[b]fluoranthene	625.1	GC/MS	3.4 µg/l	5.0 µg/l
Benzo[k]fluoranthene	625.1	GC/MS	4.7 µg/l	5.0 µg/l
Benzo[a]pyrene	625.1	GC/MS	3.0 µg/l	5.0 µg/l
Indeno(1,2,3-c,d)pyrene	625.1	GC/MS	4.2 µg/l	5.0 µg/l
Dibenzo[a,h]anthracene	625.1	GC/MS	2.8 µg/l	5.0 µg/l
Benzo[g,h,i]perylene	625.1	GC/MS	3.0 µg/l	5.0 µg/l

Modified 01/04/2019 MRR