

# Appendix A: EPA Methods of Environmental Water Analysis

**Table A-1.** Inorganic constituents of concern in water samples, the analytical methods used to determine their concentrations, and their contractual reporting limits

Constituents of concern	Analytical method	Reporting limit <sup>(a,b)</sup>
<b>Metals and minerals (mg/L)</b>		
All alkalinities	EPA 310.1	1
Aluminum	EPA 200.7 or 200.8	0.05 or 0.2
Ammonia nitrogen (as N)	EPA 350.3, 350.2, or 350.1	0.03 or 0.1
Antimony	EPA 204.2 or 200.8	0.005
Arsenic	EPA 206.2 or 200.8	0.002
Barium	EPA 200.7 or 200.8	0.025 or 0.01
Beryllium	EPA 210.2 or 200.8	0.0005 or 0.0002
Boron	EPA 200.7	0.05
Bromide	EPA 300.0	0.5
Cadmium	EPA 213.2 or 200.8	0.0005
Calcium	EPA 200.7	0.5
Chloride	EPA 300.0	1 or 0.5
Chlorine (residual)	EPA 330.1 or 330.4	0.1
Chromium	EPA 218.2 or 200.8	0.01 or 0.001
Chromium(VI)	EPA 218.4 or 7196	0.002
Cobalt	EPA 200.7 or 200.8	0.025 or 0.05
Copper	EPA 220.2, 200.7 or 200.8	0.001, 0.01 or 0.05
Cyanide	EPA 335.2	0.02
Fluoride	EPA 340.2 or 340.1	0.05
Hardness, total (as CaCO <sub>3</sub> )	SM 2320B	1
Iron	EPA 200.7 or 200.8	0.1
Lead	EPA 239.2 or 200.8	0.002 or 0.005
Magnesium	EPA 200.7 or 200.8	0.5
Manganese	EPA 200.7 or 200.8	0.03
Mercury	EPA 245.2 or 245.1	0.0002
Molybdenum	EPA 200.7 or 200.8	0.025
Nickel	EPA 249.2, 200.7 or 200.8	0.002, 0.005 or 0.1
Nitrate (as NO <sub>3</sub> )	EPA 353.2, 354.1 or 300.0	0.5

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**Table A-1.** Inorganic constituents of concern in water samples, the analytical methods used to determine their concentrations, and their contractual reporting limits (continued)

Constituents of concern	Analytical method	Reporting limit <sup>(a,b)</sup>
<b>Metals and minerals (mg/L) (continued)</b>		
Nitrite (as NO <sub>2</sub> )	EPA 353.2, 354.1 or 300.0	0.5
Ortho-phosphate	EPA 300.0, 365.1 or 365.2	0.05
Perchlorate	EPA 314.0	0.004
Potassium	EPA 200.7	1
Selenium	EPA 270.2 or 200.8	0.002
Silver	EPA 272.2 or 200.8	0.001 or 0.0005
Sodium	EPA 200.7	1 or 0.1
Sulfate	EPA 300.0	1
Surfactants	EPA 425.1	0.5
Thallium	EPA 279.2 or 200.8	0.001
Total dissolved solids	EPA 160.1	1
Total suspended solids	EPA 160.2	1
Total Kjeldahl nitrogen	EPA 351.2 or 351.3	0.2
Total phosphorus (as P)	EPA 365.4 or SM 4500-P	0.05
Vanadium	EPA 200.7 or 200.8	0.02 or 0.025
Zinc	EPA 200.7 or 200.8	0.02 or 0.05
<b>General indicator parameters</b>		
pH (pH units)	EPA 150.1	none
Biochemical oxygen demand (mg/L)	SM 5210B	2
Conductivity (μS/cm)	EPA 120.1	none
Chemical oxygen demand (mg/L)	EPA 410.4	5
Dissolved oxygen (mg/L)	EPA 360.1	0.05
Total organic carbon (mg/L)	EPA 9060 or 415.1	1
Total organic halides (mg/L)	EPA 9020	0.02
Toxicity, acute (fathead minnow)	EPA 2000	027F%
Toxicity, chronic (fathead minnow)	EPA 1000	002 NOEC
<b>Radioactivity (Bq/L)</b>		
Gross alpha	EPA 900	0.074
Gross beta	EPA 900	0.11
<b>Radioisotopes (Bq/L)</b>		
Americium-241	U-NAS-NS-3050	0.0037
Plutonium-238	U-NAS-NS-3050	0.0037

**Table A-1.** Inorganic constituents of concern in water samples, the analytical methods used to determine their concentrations, and their contractual reporting limits (continued)

Constituents of concern	Analytical method	Reporting limit <sup>(a,b)</sup>
Plutonium-239+240	U-NAS-NS-3050	0.0037
Radon-222	EPA 913	3.7
Radium-226	EPA 903	0.0093
Radium-228	EPA 904	0.037
Thorium-228	U-NAS-NS-3050	0.009
Thorium-230	U-NAS-NS-3050	0.006
Thorium-232	U-NAS-NS-3050	0.006
Tritium	LLNL-RAS-011	3.7
Uranium-234	EPA 908	0.0037
Uranium-235	EPA 908	0.0037
Uranium-238	EPA 908	0.0037

- a The significant figures displayed in this table vary by constituent. These variations reflect regulatory agency permit stipulations, or the applicable analytical laboratory contract under which the work was performed, or both.
- b These reporting limits are for water samples with low concentrations of dissolved solids. If higher concentrations are present, limits are likely to be higher.

**Appendix A: EPA Methods of Environmental Water Analysis**

**Table A-2.** Organic constituents of concern in water samples and their contractual reporting limits of concentration, sorted by analytical method

Constituents of concern	Reporting limit (µg/L) <sup>(a,b)</sup>	Constituents of concern	Reporting limit (µg/L) <sup>(a,b)</sup>
<b>EPA Method 413.1 or 1664</b>		Dibromochloromethane	0.2
Oil & Grease	1000	Dibromomethane	0.2
<b>EPA Method 420.1</b>		Dichlorodifluoromethane	0.2
Phenolics	5	Ethylbenzene	0.2
<b>EPA Method 502.2 (or 524.2)</b>		Freon 113	0.2
1,1,1,2-Tetrachloroethane	0.2	Hexachlorobutadiene	0.2
1,1,1-Trichloroethane	0.2	Isopropylbenzene	0.2
1,1,2,2-Tetrachloroethane	0.2	<i>m</i> - and <i>p</i> -Xylene isomers	0.2
1,1,2-Trichloroethane	0.2	Methylene chloride	0.2
1,1-Dichloroethane	0.2	<i>n</i> -Butylbenzene	0.2
1,1-Dichloroethene	0.2	<i>n</i> -Propylbenzene	0.2
1,1-Dichloropropene	0.2	Naphthalene	0.2
1,2,3-Trichlorobenzene	0.2	<i>o</i> -Xylene	0.2
1,2,3-Trichloropropane	0.2	Isopropyl toluene	0.2
1,2,4-Trichlorobenzene	0.2	<i>sec</i> -Butylbenzene	0.2
1,2,4-Trimethylbenzene	0.2	Styrene	0.2
1,2-Dichlorobenzene	0.2	<i>tert</i> -Butylbenzene	0.2
1,2-Dichloroethane	0.2	Tetrachloroethene	0.2
1,2-Dichloropropane	0.2	Toluene	0.2
1,3,5-Trimethylbenzene	0.2	<i>trans</i> -1,2-Dichloroethene	0.2
1,3-Dichlorobenzene	0.2	<i>trans</i> -1,3-Dichloropropene	0.2
1,3-Dichloropropane	0.2	Trichloroethene	0.2
1,4-Dichlorobenzene	0.2	Trichlorofluoromethane	0.2
2,2-Dichloropropane	0.2	Vinyl chloride	0.2
2-Chlorotoluene	0.2	<b>EPA Method 507</b>	
4-Chlorotoluene	0.2	Alachlor	0.5
Benzene	0.2	Atraton	0.5
Bromobenzene	0.2	Atrazine	0.5
Bromochloromethane	0.2	Bromacil	0.5
Bromodichloromethane	0.2	Butachlor	0.5
Bromoform	0.2	Diazinon	0.5
Bromomethane	0.2	Dichlorvos	0.5
Carbon tetrachloride	0.2	Ethoprop	0.5
Chlorobenzene	0.2	Merphos	0.5
Chloroethane	0.2	Metolachlor	0.5
Chloroform	0.2	Metribuzin	0.5
Chloromethane	0.2	Mevinphos	0.5
<i>cis</i> -1,2-Dichloroethene	0.2	Molinate	0.5
<i>cis</i> -1,3-Dichloropropene	0.5	Prometon	0.5

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**Table A-2.** Organic constituents of concern in water samples and their contractual reporting limits of concentration, sorted by analytical method (continued)

Constituents of concern	Reporting limit ( $\mu\text{g/L}$ ) <sup>(a,b)</sup>	Constituents of concern	Reporting limit ( $\mu\text{g/L}$ ) <sup>(a,b)</sup>
Prometryn	0.5	Dichlorodifluoromethane	2
Simazine	0.5	Ethylbenzene	1
Terbutryn	0.5	Ethylene dibromide	1
<b>EPA Method 524.2</b>		Freon 113	1
1,1,1,2-Tetrachloroethane	1	Hexachlorobutadiene	1
1,1,1-Trichloroethane	1	Isopropylbenzene	1
1,1,2,2-Tetrachloroethane	1	<i>m</i> - and <i>p</i> -Xylene isomers	1
1,1,2-Trichloroethane	1	Methylene chloride	1
1,1-Dichloroethane	1	<i>n</i> -Butylbenzene	1
1,1-Dichloroethene	1	<i>n</i> -Propylbenzene	1
1,1-Dichloropropene	1	Naphthalene	1
1,2,3-Trichlorobenzene	1	<i>o</i> -Xylene	1
1,2,3-Trichloropropane	1	Isopropyl toluene	1
1,2,4-Trichlorobenzene	1	<i>sec</i> -Butylbenzene	1
1,2,4-Trimethylbenzene	1	Styrene	1
1,2-Dibromo-3-chloropropane	2	<i>tert</i> -Butylbenzene	1
1,2-Dichlorobenzene	1	Tetrachloroethene	1
1,2-Dichloroethane	1	Toluene	1
1,2-Dichloropropane	1	<i>trans</i> -1,2-Dichloroethene	1
1,3,5-Trimethylbenzene	1	<i>trans</i> -1,3-Dichloropropene	1
1,3-Dichlorobenzene	1	Trichloroethene	0.5
1,3-Dichloropropane	1	Trichlorofluoromethane	1
1,4-Dichlorobenzene	1	Vinyl chloride	2
2-Chlorotoluene	1	<b>EPA Method 525</b>	0.5
4-Chlorotoluene	1	2,4-Dinitrotoluene	0.5
Benzene	1	2,6-Dinitrotoluene	0.5
Bromobenzene	1	4,4'-DDD	0.5
Bromodichloromethane	1	4,4'-DDE	0.5
Bromoform	1	4,4'-DDT	0.5
Bromomethane	2	Acenaphthylene	0.5
Carbon tetrachloride	1	Alachlor	0.5
Chlorobenzene	1	Aldrin	0.5
Chloroethane	2	Anthracene	0.5
Chloroform	1	Aroclor 1016 (PCB)	0.5
Chloromethane	2	Aroclor 1221 (PCB)	0.5
<i>cis</i> -1,2-Dichloroethene	1	Aroclor 1232 (PCB)	0.5
<i>cis</i> -1,3-Dichloropropene	1	Aroclor 1242 (PCB)	0.5
Dibromochloromethane	1	Aroclor 1248 (PCB)	0.5
Dibromomethane	1	Aroclor 1254 (PCB)	0.5

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**Table A-2.** Organic constituents of concern in water samples and their contractual reporting limits of concentration, sorted by analytical method (continued)

Constituents of concern	Reporting limit ( $\mu\text{g/L}$ ) <sup>(a,b)</sup>	Constituents of concern	Reporting limit ( $\mu\text{g/L}$ ) <sup>(a,b)</sup>
Aroclor 1260 (PCB)	0.5	Merphos	0.5
Atraton	0.5	Methoxychlor	0.5
Atrazine	0.5	Metolachlor	0.5
Benzo(a)anthracene	0.5	Metribuzin	0.5
Benzo(a)pyrene	0.5	Mevinphos	0.5
Benzo(b)fluoranthene	0.5	Pentachlorobenzene	0.5
Benzo(g,h,i)perylene	0.5	Pentachlorophenol	0.5
Benzo(k)fluoranthene	0.5	Phenanthrene	0.5
Bis(2-ethylhexyl)phthalate	0.5	Prometon	0.5
Bromacil	0.5	Prometryne	0.5
Butachlor	0.5	Propachlor	0.5
Butylbenzylphthalate	0.5	Pyrene	0.5
Chlordane	0.5	Simazine	0.5
Chloropropham	0.5	Stirophos	0.5
Chlorpyrifos	0.5	Terbutryn	0.5
Chrysene	0.5	Toxaphene	
Di (2-ethylhexyl) adipate	0.5	<b>EPA Method 547</b>	
Di-n-butylphthalate	0.5	Glyphosate	20
Diazinon	0.5	<b>EPA Method 601</b>	
Dibenzo(a,h)anthracene	0.5	1,1,1-Trichloroethane	0.5
Dichlorvos	0.5	1,1,2,2-Tetrachloroethane	0.5
Dieldrin	0.5	1,1,2-Trichloroethane	0.5
Diethylphthalate	0.5	1,1-Dichloroethane	0.5
Dimethylphthalate	0.5	1,1-Dichloroethene	0.5
Disulfoton	0.5	1,2-Dichlorobenzene	0.5
Endosulfan I	0.5	1,2-Dichloroethane	0.5
Endosulfan II	0.5	1,2-Dichloroethene (total)	0.5
Endosulfan sulfate	0.5	1,2-Dichloropropane	0.5
Endrin	0.5	1,3-Dichlorobenzene	0.5
Endrin aldehyde	0.5	1,4-Dichlorobenzene	0.5
Ethoprop	0.5	2-Chloroethylvinylether	0.5
Fluorene	0.5	Bromodichloromethane	0.5
Heptachlor	0.5	Bromoform	0.5
Heptachlor epoxide	0.5	Bromomethane	0.5
Hexachlorobenzene	0.5	Carbon tetrachloride	0.5
Hexachlorocyclopentadiene	0.5	Chlorobenzene	0.5
Indeno(1,2,3-c,d)pyrene	0.5	Chloroethane	0.5
Isophorone	0.5	Chloroform	0.5
Lindane	0.5	Chloromethane	0.5

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Constituents of concern	Reporting limit (µg/L) <sup>(a,b)</sup>	Constituents of concern	Reporting limit (µg/L) <sup>(a,b)</sup>
<i>cis</i> -1,2-Dichloroethene	0.5	Methoxychlor	0.5
<i>cis</i> -1,3-Dichloropropene	0.5	4,4'-DDD	0.1
Dibromochloromethane	0.5	4,4'-DDE	0.1
Dichlorodifluoromethane	0.5	4,4'-DDT	0.1
Freon 113	0.5	Toxaphene	1
Methylene chloride	0.5	<b>EPA Method 615</b>	
Tetrachloroethene	0.5	2,4,5-T	0.5
<i>trans</i> -1,2-Dichloroethene	0.5	2,4,5-TP (Silvex)	0.2
<i>trans</i> -1,3-Dichloropropene	0.5	2,4-D	1
Trichloroethene	0.5	2,4-Dichlorophenoxy acetic acid	2
Trichlorofluoromethane	0.5	Dalapon	10
Vinyl chloride	0.5	Dicamba	1
<b>EPA Method 602</b>		Dichloroprop	2
1,2-Dichlorobenzene	0.3	Dinoseb	1
1,3-Dichlorobenzene	0.3	MCPA	250
1,4-Dichlorobenzene	0.3	MCPP	250
Benzene	0.4	<b>EPA Method 624</b>	
Chlorobenzene	0.3	1,1,1-Trichloroethane	1
Ethylbenzene	0.3	1,1,2,2-Tetrachloroethane	1
<i>m</i> -Xylene isomers	0.4	1,1,2-Trichloroethane	1
<i>o</i> -Xylene	0.4	1,1-Dichloroethane	1
<i>p</i> -Xylene	0.4	1,1-Dichloroethene	1
Toluene	0.3	1,2-Dichlorobenzene	1
Total xylene isomers	0.4	1,2-Dichloroethane	1
<b>EPA Method 608</b>		1,2-Dichloroethene (total)	1
Aldrin	0.05	1,2-Dichloropropane	1
BHC, alpha isomer	0.05	1,3-Dichlorobenzene	1
BHC, beta isomer	0.05	1,4-Dichlorobenzene	1
BHC, delta isomer	0.05	2-Butanone	20
BHC, gamma isomer (Lindane)	0.05	2-Chloroethylvinylether	20
Chlordane	0.2	2-Hexanone	20
Dieldrin	0.1	4-Methyl-2-pentanone	20
Endosulfan I	0.05	Acetone	10
Endosulfan II	0.1	Benzene	1
Endosulfan sulfate	0.1	Bromodichloromethane	1
Endrin	0.1	Bromoform	1
Endrin aldehyde	0.1	Bromomethane	2
Heptachlor	0.05	Carbon disulfide	1
Heptachlor epoxide	0.05	Carbon tetrachloride	1

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Constituents of concern	Reporting limit ( $\mu\text{g/L}$ ) <sup>(a,b)</sup>	Constituents of concern	Reporting limit ( $\mu\text{g/L}$ ) <sup>(a,b)</sup>
Chlorobenzene	1	2-Nitroaniline	25
Chloroethane	2	3,3'-Dichlorobenzidine	10
Chloroform	1	3-Nitroaniline	25
Chloromethane	2	4-Bromophenylphenylether	5
<i>cis</i> -1,2-Dichloroethene	1	4-Chloro-3-methylphenol	10
<i>cis</i> -1,3-Dichloropropene	1	4-Chloroaniline	10
Dibromochloromethane	1	4-Chlorophenylphenylether	5
Dibromomethane	1	4-Nitroaniline	25
Dichlorodifluoromethane	2	4-Nitrophenol	25
Ethylbenzene	1	Acenaphthene	25
Freon 113	1	Acenaphthylene	5
Methylene chloride	1	Anthracene	5
Styrene	1	Benzo[ <i>a</i> ]anthracene	5
Tetrachloroethene	1	Benzo[ <i>a</i> ]pyrene	5
Toluene	1	Benzo[ <i>b</i> ]fluoranthene	5
Total xylene isomers	2	Benzo[ <i>g,h,i</i> ]perylene	5
<i>trans</i> -1,2-Dichloroethene	1	Benzo[ <i>k</i> ]fluoranthene	5
<i>trans</i> -1,3-Dichloropropene	1	Benzoic acid	25
Trichloroethene	0.5	Benzyl alcohol	10
Trichlorofluoromethane	1	Bis(2-chloroethoxy)methane	5
Vinyl acetate	1	Bis(2-chloroisopropyl)ether	5
Vinyl chloride	1	Bis(2-ethylhexyl)phthalate	5
<b>EPA Method 625</b>		Butylbenzylphthalate	5
1,2,4-Trichlorobenzene	5	Chrysene	5
1,2-Dichlorobenzene	5	Di- <i>n</i> -butylphthalate	5
1,3-Dichlorobenzene	5	Di- <i>n</i> -octylphthalate	5
1,4-Dichlorobenzene	5	Dibenzo[ <i>a,h</i> ]anthracene	5
2,4,5-Trichlorophenol	5	Dibenzofuran	5
2,4,6-Trichlorophenol	5	Diethylphthalate	5
2,4-Dichlorophenol	5	Dimethylphthalate	5
2,4-Dimethylphenol	5	Fluoranthene	5
2,4-Dinitrophenol	25	Fluorene	5
2,4-Dinitrotoluene	5	Hexachlorobenzene	5
2,6-Dinitrotoluene	5	Hexachlorobutadiene	5
2-Chloronaphthalene	5	Hexachlorocyclopentadiene	5
2-Chlorophenol	5	Hexachloroethane	5
2-Methylphenol	5	Indeno[1,2,3- <i>c,d</i> ]pyrene	5
2-Methyl-4,6-dinitrophenol	25	Isophorone	5
2-Methylnaphthalene	5	<i>m</i> - and <i>p</i> -Cresol	5



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Constituents of concern	Reporting limit (µg/L) <sup>(a,b)</sup>	Constituents of concern	Reporting limit (µg/L) <sup>(a,b)</sup>
N-Nitroso-di- <i>n</i> -propylamine	5	1,2-Dibromo-3-chloropropane	0.5
Naphthalene	5	1,2-Dichloroethane	0.5
Nitrobenzene	5	1,2-Dichloroethene (total)	0.5
Pentachlorophenol	5	1,2-Dichloropropane	0.5
Phenanthrene	5	2-Butanone	0.5
Phenol	5	2-Chloroethylvinylether	0.5
Pyrene	5	2-Hexanone	0.5
<b>EPA Method 632</b>		4-Methyl-2-pentanone	0.5
Diuron	0.1	Acetone	10
<b>EPA Method 8082</b>		Acetonitrile	100
Polychlorinated biphenyls (PCBs)	0.5	Acrolein	50
<b>EPA Method 8140</b>		Acrylonitrile	50
Bolstar	1	Benzene	0.5
Chlorpyrifos	1	Bromodichloromethane	0.5
Coumaphos	1	Bromoform	0.5
Demeton	1	Bromomethane	0.5
Diazinon	1	Carbon disulfide	5
Dichlorvos	1	Carbon tetrachloride	0.5
Disulfoton	1	Chlorobenzene	0.5
Ethoprop	1	Chloroethane	0.5
Fensulfothion	1	Chloroform	0.5
Fenthion	1	Chloromethane	0.5
Merphos	1	Chloroprene	5
Methyl Parathion	1	Dibromochloromethane	0.5
Mevinphos	1	Dichlorodifluoromethane	0.5
Naled	1	Ethanol	1000
Phorate	1	Ethylbenzene	0.5
Prothiophos	1	Freon 113	0.5
Ronnel	1	Methylene chloride	0.5
Stirophos	1	Styrene	0.5
Trichloronate	1	Tetrachloroethene	0.5
<b>EPA Method 8260</b>		Toluene	0.5
1,1,1,2-Tetrachloroethane	0.5	Total xylene isomers	0.5
1,1,1-Trichloroethane	0.5	Trichloroethene	0.5
1,1,2,2-Tetrachloroethane	0.5	Trichlorofluoromethane	0.5
1,1,2-Trichloroethane	0.5	Vinyl acetate	20
1,1-Dichloroethane	0.5	Vinyl chloride	0.5
1,1-Dichloroethene	0.5	<i>cis</i> -1,2-Dichloroethene	0.5
1,2,3-Trichloropropane	0.5	<i>cis</i> -1,3-Dichloropropene	0.5

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<i>trans</i> -1,2-Dichloroethene	0.5	1,2,3,7,8-PeCDD	0.0001
<i>trans</i> -1,3-Dichloropropene	0.5	1,2,3,7,8-PeCDF	0.0001
<b>EPA Method 8290</b>		2,3,4,6,7,8-HxCDF	0.00025
1,2,3,4,6,7,8-HpCDD	0.00025	2,3,4,7,8-PeCDF	0.0001
1,2,3,4,6,7,8-HpCDF	0.00025	2,3,7,8-TCDD	0.0001
1,2,3,4,7,8,9-HpCDF	0.00025	2,3,7,8-TCDF	0.0001
1,2,3,4,7,8-HxCDF	0.00025	OCDD	0.0005
1,2,3,6,7,8-HxCDD	0.00025	OCDF	0.0005
1,2,3,6,7,8-HxCDF	0.00025	<b>EPA Method 8330</b>	
1,2,3,7,8,9-HxCDD	0.00025	HMX <sup>(c)</sup>	5 or 1
1,2,3,7,8,9-HxCDF	0.00025	RDX <sup>(d)</sup>	5 or 1
		TNT <sup>(e)</sup>	5

- a The significant figures displayed in this table vary by constituent. These variations reflect regulatory agency permit stipulations, the applicable analytical laboratory contract under which the work was performed, or both.
- b These reporting limits are for water samples with low concentrations of dissolved solids. If higher concentrations are present, limits are likely to be higher.
- c HMX is octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine.
- d RDX is hexahydro-1,3,5-trinitro-1,3,5-triazine.
- e TNT is 2,4,6-trinitrotoluene.