

APPENDIX B

EPA Methods of Environmental Water Analysis

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

Constituent of concern	Analytical method	Reporting limit ^(a,b)	
Metals and minerals (mg/L)	All alkalinities	SM 2310	1
	Aluminum	EPA 200.7 or 200.8	0.05 or 0.2
	Ammonia nitrogen (as N)	EPA 350.1 or SM 4500-NH3	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 200.8 or SM 3113B	0.0005
	Calcium	EPA 200.7	0.5
	Chloride	EPA 300.0	1 or 0.5
	Chlorine (residual)	SM-4500-CL	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 ₃)	SM 2320B	1
	Iron	EPA 200.7 or 200.8	0.1
	Lead	EPA 200.8 or SM3113B	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 200.7, 200.8 or SM 3113B	0.002, 0.005 or 0.1
	Nitrate (as NO ₃)	EPA 353.2 300.0 or SM 4500-NO ₃	0.5
	Nitrite (as NO ₂)	EPA 353.2 or 300.0, SM 4500-NO ₂	0.5
	Ortho-phosphate	EPA 300.0, 365.1 or	0.05
	Perchlorate	EPA 314.0	0.004
	Potassium	EPA 200.7	1
	Selenium	EPA 200.8 or SM 3113B	0.002
	Silver	EPA 200.8 or SM 3113B	0.001 or 0.0005
	Sodium	EPA 200.7	1 or 0.1
	Sulfate	EPA 300.0	1
Surfactants	SM 5540C	0.5	
Thallium	EPA 279.2 or 200.8	0.001	

B. EPA Methods of Environmental Water Analysis

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

Constituent of concern	Analytical method	Reporting limit ^(a,b)	
Metals and minerals (mg/L) (cont.)	Total dissolved solids	SM 2540C	1
	Total suspended solids	SM 2540D	1
	Total Kjeldahl nitrogen (as N)	EPA 351.2 or SM 4500-Norg	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
General indicator parameters	pH (pH units)	SM 4500-H+	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)	SM 4500-O G	0.05
	Total organic carbon (mg/L)	EPA 9060 or SM 5310B	1
	Total organic halides (mg/L)	EPA 9020	0.02
	Toxicity, acute (fathead minnow)	EPA 600/4-AB5-013	NA
	Toxicity, chronic (fathead minnow)	EPA 1000	NA
	Toxicity, chronic (daphnid)	EPA 1002	NA
Toxicity, chronic (green algae)	EPA 1003	NA	
Radioactivity (Bq/L)	Gross alpha	EPA 900	0.074
	Gross beta	EPA 900	0.11
Radioisotopes (Bq/L)	Americium-241	U-NAS-NS-3050	0.0037
	Plutonium-238	U-NAS-NS-3050	0.0037
	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	EPA 906	3.7
	Uranium-234	EPA 907	0.0037
	Uranium-235	EPA 907	0.0037
	Uranium-238	EPA 907	0.0037

(a) The number of decimal places 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.

B. EPA Methods of Environmental Water Analysis

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

Constituent of concern	Reporting limit (µg/L) ^(a,b)	Constituent of concern	Reporting limit (µg/L) ^(a,b)
EPA Method 1664		Dibromochloromethane	0.2
Oil & Grease	1000	Dibromomethane	0.2
EPA Method 420.1		Dichlorodifluoromethane	0.2
Phenolics	5	Ethylbenzene	0.2
EPA Method 502.2 (or 524.2)		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	EPA Method 507	
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

B. EPA Methods of Environmental Water Analysis

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

Constituent of concern	Reporting limit (µg/L) ^(a,b)	Constituent of concern	Reporting limit (µg/L) ^(a,b)
EPA Method 507 (cont.)		Dibromomethane	1
Prometryn	0.5	Dichlorodifluoromethane	2
Simazine	0.5	Ethylbenzene	1
Terbutryn	0.5	Ethylene dibromide	1
EPA Method 524.2		Freon-113	1
1,1,1,2-Tetrachloroethane	1	Hexachlorobutadiene	1
1,1,1-Trichloroethane	1	Isopropylbenzene	1
1,1,1,2-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	EPA Method 525	
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

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

Constituent of concern	Reporting limit (µg/L) ^(a,b)	Constituent of concern	Reporting limit (µg/L) ^(a,b)
EPA Method 525 (cont.)		Isophorone	0.5
Aroclor 1254 (PCB)	0.5	Lindane	0.5
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
Chloroprotham	0.5	Stirophos	0.5
Chlorpyrifos	0.5	Terbutryn	0.5
Chrysene	0.5	Toxaphene	0.5
Di (2-ethylhexyl) adipate	0.5	EPA Method 547	
Di-n-butylphthalate	0.5	Glyphosate 20	20
Diazinon	0.5	EPA Method 601	
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

B. EPA Methods of Environmental Water Analysis

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

Constituent of concern	Reporting limit (µg/L) ^(a,b)	Constituent of concern	Reporting limit (µg/L) ^(a,b)
EPA Method 601 (cont.)		Endrin	0.1
Chloroform	0.5	Endrin aldehyde	0.1
Chloromethane	0.5	Heptachlor	0.05
<i>cis</i> -1,2-Dichloroethene	0.5	Heptachlor epoxide	0.05
<i>cis</i> -1,3-Dichloropropene	0.5	Methoxychlor	0.5
Dibromochloromethane	0.5	4,4'-DDD	0.1
Dichlorodifluoromethane	0.5	4,4'-DDE	0.1
Freon-113	0.5	4,4'-DDT	0.1
Methylene chloride	0.5	Toxaphene	1
Tetrachloroethene <i>trans</i> -1,2-	0.5	EPA Method 615	
Dichloroethene <i>trans</i> -1,3-	0.5	2,4,5-T	0.5
Dichloropropene	0.5	2,4,5-TP (Silvex)	0.2
Trichloroethene	0.5	2,4-D	1
Trichlorofluoromethane	0.5	2,4-Dichlorophenoxy acetic acid	2
Vinyl chloride	0.5	Dalapon	10
EPA Method 602		Dicamba	1
1,2-Dichlorobenzene	0.3	Dichloroprop	2
1,3-Dichlorobenzene	0.3	Dinoseb	1
1,4-Dichlorobenzene	0.3	MCPA	250
Benzene	0.4	MCPP	250
Chlorobenzene	0.3	EPA Method 624	
Ethylbenzene	0.3	1,1,1-Trichloroethane	1
<i>m</i> -Xylene isomers	0.4	1,1,2,2-Tetrachloroethane	1
<i>o</i> -Xylene	0.4	1,1,2-Trichloroethane	1
<i>p</i> -Xylene	0.4	1,1-Dichloroethane	1
Toluene	0.3	1,1-Dichloroethene	1
Total xylene isomers	0.4	1,2-Dichlorobenzene	1
EPA Method 608		1,2-Dichloroethane	1
Aldrin	0.05	1,2-Dichloroethene (total)	1
BHC, alpha isomer	0.05	1,2-Dichloropropane	1
BHC, beta isomer	0.05	1,3-Dichlorobenzene	1
BHC, delta isomer	0.05	1,4-Dichlorobenzene	1
BHC, gamma isomer (Lindane)	0.05	2-Butanone	20
Chlordane	0.2	2-Chloroethylvinylether	20
Dieldrin	0.1	2-Hexanone	20
Endosulfan I	0.05	4-Methyl-2-pentanone	20
Endosulfan II	0.1	Acetone	10
Endosulfan sulfate	0.1	Benzene	1

B. EPA Methods of Environmental Water Analysis

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

Constituent of concern	Reporting limit (µg/L) ^(a,b)	Constituent of concern	Reporting limit (µg/L) ^(a,b)
EPA Method 624 (cont.)		2,6-Dinitrotoluene	5
Bromodichloromethane	1	2-Chloronaphthalene	5
Bromoform	1	2-Chlorophenol	5
Bromomethane	2	2-Methylphenol	5
Carbon disulfide	1	2-Methyl-4,6-dinitrophenol	25
Carbon tetrachloride	1	2-Methylnaphthalene	5
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
EPA Method 625		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

B. EPA Methods of Environmental Water Analysis

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

Constituent of concern	Reporting limit (µg/L) ^(a,b)	Constituent of concern	Reporting limit (µg/L) ^(a,b)
EPA Method 625 (cont.)		1,1-Dichloroethane	0.5
Hexachlorobutadiene	5	1,1-Dichloroethene	0.5
Hexachlorocyclopentadiene	5	1,2,3-Trichloropropane	0.5
Hexachloroethane	5	1,2-Dibromo-3-chloropropane	0.5
Indeno[1,2,3-c,d]p yrene	5	1,2-Dichloroethane	0.5
Isophorone	5	1,2-Dichloroethene (total)	0.5
<i>m</i> - and <i>p</i> -Cresol	5	1,2-Dichloropropane	0.5
<i>N</i> -Nitroso-di- <i>n</i> -propylamine	5	2-Butanone	0.5
Naphthalene	5	2-Chloroethylvinylether	0.5
Nitrobenzene	5	2-Hexanone	0.5
Pentachlorophenol	5	4-Methyl-2-pentanone	0.5
Phenanthrene	5	Acetone	10
Phenol	5	Acetonitrile	100
Pyrene	5	Acrolein	50
EPA Method 632		Acrylonitrile	50
Diuron	0.1	Benzene	0.5
EPA Method 8082		Bromodichloromethane	0.5
Polychlorinated biphenyls (PCBs)	0.5	Bromoform	0.5
EPA Method 8140		Bromomethane	0.5
Bolstar	1	Carbon disulfide	5
Chlorpyrifos	1	Carbon tetrachloride	0.5
Coumaphos	1	Chlorobenzene	0.5
Demeton	1	Chloroethane	0.5
Diazinon	1	Chloroform	0.5
Dichlorvos	1	Chloromethane	0.5
Disulfoton	1	Chloroprene	5
Ethoprop	1	Dibromochloromethane	0.5
Fensulfothion	1	Dichlorodifluoromethane	0.5
Fenthion	1	Ethanol	1000
Merphos	1	Ethylbenzene	0.5
Methyl Parathion	1	Freon-113	0.5
Mevinphos	1	Methylene chloride	0.5
Naled	1	Styrene	0.5
Phorate	1	Tetrachloroethene	0.5
Prothiophos	1	Toluene	0.5
Ronnel	1	Total xylene isomers	0.5
Stirophos	1	Trichloroethene	0.5
Trichloronate	1	Trichlorofluoromethane	0.5
EPA Method 8260		Vinyl acetate	20
1,1,1,2-Tetrachloroethane	0.5	Vinyl chloride	0.5
1,1,1-Trichloroethane	0.5	<i>cis</i> -1,2-Dichloroethene	0.5
1,1,2,2-Tetrachloroethane	0.5	<i>cis</i> -1,3-Dichloropropene	0.5
1,1,2-Trichloroethane	0.5	<i>trans</i> -1,2-Dichloroethene	0.5
		<i>trans</i> -1,3-Dichloropropene	0.5

B. EPA Methods of Environmental Water Analysis

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

Constituent of concern	Reporting limit (µg/L) ^(a,b)	Constituent of concern	Reporting limit (µg/L) ^(a,b)
EPA Method 8290		2,3,7,8-TCDD	0.0001
1,2,3,4,6,7,8-HpCDD	0.00025	2,3,7,8-TCDF	0.0001
1,2,3,4,6,7,8-HpCDF	0.00025	OCDD	0.0005
1,2,3,4,7,8,9-HpCDF	0.00025	OCDF	0.0005
1,2,3,4,7,8-HxCDF	0.00025	EPA Method 8330	5 or 1
1,2,3,6,7,8-HxCDD	0.00025	HMX ^(c)	5 or 1
1,2,3,6,7,8-HxCDF	0.00025	RDX ^(d)	5
1,2,3,7,8,9-HxCDD	0.00025	TNT ^(e)	0.0001
1,2,3,7,8,9-HxCDF	0.00025	EPA Method 9131 or Standard Method 9221	MPN ^(f) /100mL
1,2,3,7,8-PeCDD	0.0001	Fecal coliform bacteria	1 to 2
1,2,3,7,8-PeCDF	0.0001	Total coliform bacteria	1 to 2
2,3,4,6,7,8-HxCDF	0.00025		
2,3,4,7,8-PeCDF	0.0001		

(a) The number of decimal places 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.

(f) MPN = most probable number (of organisms).

B. EPA Methods of Environmental Water Analysis

Table B-3. Radioisotopes and reporting limits for gamma spectroscopic analysis of constituents of concern in groundwater.^(a)

Constituent of concern^(b)	Typical reporting limit (Bq/L)
Actinium-228	3.1
Americium-241	1.8
Beryllium-7	3.7
Cesium-134	0.4
Cesium-137	0.3
Cobalt-57	0.2
Cobalt-60	0.4
Europium-152	0.9
Europium-154	1.0
Europium-155	1.0
Potassium-40	7.2
Radium-226	0.8
Thorium-228	0.5
Thorium-234	1.4
Uranium-235	1.3

- (a) The significant figures displayed in this table vary by constituents of concern. These variations reflect the applicable analytical laboratory contract under which the work was performed.
- (b) Not included are promethium-147 and thallium-208, reported above 46,000 and 72 Bq/L, respectively.