U.S. EPA's Methods and Minimum Detection Limits
List taken from the 2007 version of 40 CFR 141.23 to 141.25

Note: These detection limits are for your information. They are U.S. EPA's Minimum Detection Limits, codified at 40 CFR 141.23-141.25. Your state may have different detection limits that take precedence. If you are uncertain about the inclusion of certain data, talk to your primacy agency. Some contaminants, such as lead and copper, are not listed below. If you cannot find a contaminant listed below and your lab analysis provides a detected value for that contaminant(s), report it in your CCR. If you are uncertain, always provide too much data rather than too little.

Contaminant	Method	Detection limit (mg/L)
Inorganic Contaminants [40 CFR 141.23(a)(4)]		
Antimony	Atomic Absorption; Furnace	0.003
	Atomic Absorption; Platform	0.0008
	ICP-Mass Spectrometry	0.0004
	Hydride-Atomic Adsorption	0.001
Arsenic	Atomic Absorption; Furnace	0.001
	Atomic Absorption; Platform-Stabilized Temperature	0.0005
	Atomic Absorption; Gaseous Hydride	0.001
	ICP-Mass Spectrometry	0.0014
Asbestos	Transmission Electron Microscopy	0.01 MFL
Barium	Atomic Adsorption; furnace technique	0.002
	Atomic Adsorption; direct aspiration	0.1
	Inductively Coupled Plasma	0.002 (0.001)
Beryllium	Atomic Adsorption; Furnace	0.0002
	Atomic Adsorption; Platform	0.00002
	Inductively Coupled Plasma	0.0003

Contaminant	Method	Detection limit (mg/L)
	ICP-Mass Spectrometry	0.0003
Cadmium	Atomic Adsorption; furnace technique	0.0001
	Inductively Coupled Plasma	0.0001
Chromium	Atomic Adsorption; furnace technique	0.001
	Inductively Coupled Plasma	0.007 (0.001)
Cyanide	Distillation, Spectrophotometric	0.02
	Distillation, Automated, Spectrophotometric	0.005
	Distillation, Selective Electrode	0.05
	Distillation, Amenable, Spectrophotometric	0.02
	UV, Distillation, Spectophotometric	0.0005
	Micro Distillation, Flow Injection, Spectrophometric	0.0006
	Ligand Exchange with Amperometry	0.0005
Mercury	Manual Cold Vapor Technique	0.0002
	Automated Cold Vapor Technique	0.0002
Nickel	Atomic Absorption; Furnace	0.001
	Atomic Absorption; Platform	0.0006
	Inductively Coupled Plasma	0.005
	ICP-Mass Spectrometry	0.0005
Nitrate	Manual Cadmium Reduction	0.01
	Automated Hydrazine Reduction	0.01
	Automated Cadmium Reduction	0.05
	Ion Selective Electrode	1
	Ion Chromatography	0.01

Contaminant	Method	Detection limit (mg/L)
	Capillary Ion Electrophoresis	0.076
Nitrite	Spectrophotometric	0.01
	Automated Cadmium Reduction	0.05
	Manual Cadmium Reduction	0.01
	Ion Chromatography	0.004
	Capillary Ion Electrophoresis	0.103
Selenium	Atomic Absorption; furnace	0.002
	Atomic Absorption; gaseous hydride	0.002
Thallium	Atomic Absorption; Furnace	0.001
	Atomic Absorption; Platform	0.0007
	ICP-Mass Spectrometry	0.0003
Volatile Organic Contaminants [40 CFR 141.24]		
Benzene	502.2; 524.2	0.0005
Carbon tetrachloride	502.2; 524.2; 551.1	0.0005
Chlorobenzene	502.2; 524.2	0.0005
1,2-Dichlorobenzene	502.2; 524.2	0.0005
1,4-Dichlorobenzene	502.2; 524.2	0.0005
1,2-Dichloroethane	502.2; 524.2	0.0005
1,1-Dichloroethylene	502.2; 524.2	0.0005
cis-Dichloroethylene	502.2; 524.2	0.0005
trans-Dichloroethylene	502.2; 524.2	0.0005
Dichloromethane	502.2; 524.2	0.0005
1,2-Dichloropropane	502.2; 524.2	0.0005
Ethylbenzene	502.2; 524.2	0.0005

Contaminant	Method	Detection limit (mg/L)
Styrene	502.2; 524.2	0.0005
Tetrachloroethylene	502.2; 524.2; 551.1	0.0005
1,1,1-Trichloroethane	502.2; 524.2; 551.1	0.0005
Trichloroethylene	502.2; 524.2; 551.1	0.0005
Toluene	502.2; 524.2	0.0005
1,2,4-Trichlorobenzene	502.2; 524.2	0.0005
1,1,2-Trichloroethane	502.2; 524.2; 551.1	0.0005
Vinyl chloride	502.2; 524.2	0.0005
Xylenes (total)	502.2; 524.2	0.0005
Sythentic Organize Contaminents and Herbicides [40 CFR141.24]		
2,3,7,8-TCDD (Dioxin)	1613	0.000000005
2,4-D (as acids, salts, and esters)	515.2; 555; 515.1; 515.3; 515.4	0.0001
2,4,5-TP (Silvex)	515.2; 555; 515.1; 515.3; 515.4	0.0002
Alachlor	505; 507; 525.2; 508.1; 551.1	0.0002
Aldicarb	531.1; 6610	.0005
Aldicarb sulfoxide	531.1; 6610	.0005
Aldicarb sulfone	531.1; 6610	.0008
Atrazine	505; 507; 525.2; 508.1; 551.1	0.0001
Benzo(a)pyrene	525.5; 550; 550.1	0.00002
Carbofuran	531.1; 531.2; 6610	0.0009
Chlordane	505; 508; 525.2; 508.1	0.0002
Dalapon	552.1; 515.1; 515.3; 515.4; 552.2; 552.3	0.001
Di(2-thylhexyl) adipate	506; 525.2	0.0006
Di(2-ethylhexyl) phthalate	506; 525.2	0.0006

Contaminant	Method	Detection limit (mg/L)
Dibromo-chloropropane (DBCP)	504.1; 551	0.00002
Dinoseb	515.2; 555; 515.1; 515.3; 515.4	0.0002
Diquat	549.2	0.0004
Endothall	548.1	0.009
Endrin	505; 508; 525.2; 508.1; 515.1	0.00001
Ethylene dibromide (EDB)	504.1; 551	0.00001
Glyphosate	547; 6651	0.006
Heptachlor	505; 508; 525.2; 508.1; 551.1	0.00004
Heptaclor epoxide	505; 508; 525.2; 508.1; 551.1	0.00002
Hexachlorobenzene	505; 508; 525.2; 508.1; 551.1	0.0001
Hexachlorocyclopentadiene	505; 525.2; 508; 508.1; 551.1	0.0001
Lindane	505; 508; 525.2; 508.1; 551.1	0.00002
Methoxyclor	505; 508; 525.2; 508.1; 551.1	0.0001
Oxamyl	531.1; 531.2; 6610	0.002
Polychlorindated biphenyls (PCBs) (as decachlorophenyl)	508A	0.0001
Pentachlorophenol	515.2; 525.2; 555; 515.1; 515.3; 515.4	0.00004
Picloram	515.2; 555; 515.1; 515.3; 515.4	0.0001
Simazine	505; 507; 525.2; 508.1; 515.1	0.00007
Toxaphene	505; 508; 525.2; 508.1	0.001
Radioactive Contaminants [40 CFR141.25]		
Gross alpha particle activity	Co-precipitation	3 pCi/L
Radium 226	Radio emanation; radiochemical	1 pCi/L
Radium 228	Radiochemical	1 pCi/L

Contaminant	Method	Detection limit (mg/L)
Uranium	Radiochemical; fluorometric; ICP-MS; alpha spectrometry; laser phosphorimetry	1 μg/L
Tritium	Liquid Scintillation	1,000 pCi/L
Strontium-89	Radiochemical	10 pCi/L
Strontium-90	Radiochemical	2 pCi/L
Iodine-131	Radiochemical; gamma ray spectrometry	1 pCi/L
Cesium-134	Radiochemical; gamma ray spectrometry	10 pCi/L
Gross beta	Evaporation	4 pCi/L
Other radionuclides		1/10 of the applicable limit