



NH Department of Environmental Services Drinking Water Program

Analytical Requirements for Community Public Water Systems

March 31, 2023

Many of the parameters listed in the table below must be analyzed and reported to NHDES. **Please pay close attention to the footnotes on the last page which further explain the sampling requirements.** The water system is responsible for sample collection, reporting, and ensuring that the correct analytical methods are used. Laboratories must be accredited by NHDES to perform compliance analyses. Check with your laboratory to assure it is accredited for sample collection and preservation requirements and guidance.

The laboratory must:

1. Use EPA approved drinking water methods specified in 40 CFR 141, 142, and 143
2. Have current drinking water accreditation for analyses
3. Comply with recordkeeping and reporting Env-Dw 718 and Env-Dw 719

Please contact NHDES Drinking Water and Groundwater Bureau at (603) 271-2513 with questions regarding drinking water compliance.

Parameter	Env-Dw	Method	Group	SDWIS cont. ID#	MCL (mg/L)	Trigger/ DL (mg/L)	Source	Health Effects---at levels above the MCL
<i>E. coli</i> ^p	702.03	Colilert, Colilert-18, Colisure, SM 9223 B (several editions)	Bio	3014	Absent	Presence	Human & animal fecal waste	May cause gastro-intestinal illness
Total Coliform ^q	702.03	Colilert, Colilert-18, Colisure, SM 9223 B (several editions)	Bio	3100	n.e.	Presence	Naturally present in the environment	None, indicates possible presence of other bacteria
Aluminum ^l	706.01 & 706.02	EPA 200.5 Rev . 4.2, 200.7 Rev. 4.4, 200.8 Rev. 5.4, 200.9 Rev. 2.2	IOC	1002	0.05 – 0.2	0.05	Geological; treatment process	Aesthetic
Antimony	704.02	EPA 200.5 Rev . 4.2, 200.8 Rev. 5.4, 200.9 Rev. 2.2	IOC	1074	0.006	0.003	Geological; flame retardants, ceramics, pesticides	Increase in blood cholesterol; decrease in blood sugar
Arsenic	704.02	EPA 200.5 Rev . 4.2, 200.8 Rev. 5.4, 200.9 Rev. 2.2	IOC	1005	0.005	0.0025	Erosion of natural geological deposits; pesticide residue, industrial waste	Skin damage, circulatory system problems, carcinogen
Barium	704.02	EPA 200.5 Rev . 4.2, 200.7 Rev. 4.4, 200.8 Rev. 5.4	IOC	1010	2	0.1	Geological; oil/gas drilling, painting, industrial waste	Muscular weakness, increase in blood pressure
Beryllium	704.02	EPA 200.5 Rev . 4.2, 200.7 Rev. 4.4, 200.8 Rev. 5.4, 200.9 Rev. 2.2	IOC	1075	0.004	0.002	Geological; used in high thermal conductivity materials	Intestinal lesions

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Cadmium	704.02	EPA 200.5 Rev . 4.2, 200.7 Rev. 4.4, 200.8 Rev. 5.4, 200.9 Rev. 2.2	IOC	1015	0.005	0.0025	Geological; mining, smelting, metal finishing; runoff from waste batteries and paints	Kidney damage
Chromium	704.02	EPA 200.5 Rev . 4.2, 200.7 Rev. 4.4, 200.8 Rev. 5.4, 200.9 Rev. 2.2	IOC	1020	0.1	0.001	Discharge from steel and pulp mills; erosion of natural deposits	Allergic dermatitis
Copper ^c	704.03	EPA 200.5 Rev . 4.2, 200.7 Rev. 4.4, 200.8 Rev. 5.4, 200.9 Rev. 2.2	IOC	5000	Trigger exceeded at 90% ^c	1.3	Corrosion of household plumbing; erosion of natural deposits	Gastrointestinal distress; liver or kidney damage
Copper ^d	706.01 (b)	EPA 200.5 Rev . 4.2, 200.7 Rev. 4.4, 200.8 Rev. 5.4, 200.9 Rev. 2.2	IOC	1022	1	1.3	Corrosion of household plumbing; erosion of natural deposits	Gastrointestinal distress; liver or kidney damage
Iron ^d	706.01 (b)	EPA 200.5 Rev . 4.2, 200.7 Rev. 4.4, 200.9 Rev. 2.2	IOC	1028	0.3	0.3	Geological	Aesthetic
Lead ^c	704.03	EPA 200.5 Rev . 4.2, 200.8 Rev. 5.4, 200.9 Rev. 2.2	IOC	5000	Trigger exceeded at 90%	0.015	Corrosion of household plumbing; erosion of natural deposits	Delays in physical or mental development in infants and children
Manganese ^d	706.01 (b)	EPA 200.5 Rev . 4.2, 200.7 Rev. 4.4, 200.8 Rev. 5.4, 200.9 Rev. 2.2	IOC	1032	0.05	0.05	Geological	Aesthetic
Mercury	704.02	EPA 200.8 Rev. 5.4, 245.1 Rev. 3.0, 245.2	IOC	1035	0.002	0.0002	Geological; used in mfg. of paint, paper, fungicides	Nervous system disorders, kidney damage
Nickel ⁿ	603.03	EPA 200.5 Rev . 4.2, 200.7 Rev. 4.4, 200.8 Rev. 5.4, 200.9 Rev. 2.2	IOC	1036	n.e.	0.01	Geological; electroplating, battery production, ceramics	Heart, liver, skin, weight loss
Selenium	704.02	EPA 200.5 Rev . 4.2, 200.8 Rev. 5.4, 200.9 Rev. 2.2	IOC	1045	0.05	0.025	Geological; by-product of copper mining/smeltering	Numbness in fingers or toes; circulatory problems, hair or nail loss
Silver ^l	706.01 (b) & 706.02 (b)	EPA 200.5 Rev . 4.2, 200.7 Rev. 4.4, 200.8 Rev. 5.4, 200.9 Rev. 2.2	IOC	1050	0.1	0.1	Geological	Aesthetic

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Sodium ^r	706.01 (b) & 713.08	EPA 200.5 Rev . 4.2, 200.7 Rev. 4.4	IOC	1052	250	250	Road salt, septic systems (salt from water softeners)	Aesthetic
Thallium	704.02	EPA 200.8 Rev. 5.4, 200.9 Rev. 2.2	IOC	1085	0.002	0.001	Geological; electronics industry, alloys and glass mfg	Kidney, liver, or intestinal problems; blood chemistry; hair loss
Zinc ^d	706.01 (b)	EPA 200.5 Rev . 4.2, 200.7 Rev. 4.4, 200.8 Rev. 5.4	IOC	1095	5	5	Galvanized pipes	Possible presence of other health related heavy metals
Asbestos ^{ij} (fiber>10 micrometers)	704.02	EPA 100.1 1983, EPA 100.2 1994	IOC	1094	7 million fibers per liter (MFL) ^j	0.1 MFL	Decay of asbestos cement in water mains; erosion of natural deposits	Increased risk of developing benign intestinal polyps
Chloride ^d	706.01 (b)	EPA 300.0 Rev. 2.1, SM 4500-Cl B, D (several editions)	IOC	1017	250	250	Wastewater, road salt, water softeners, corrosion	Aesthetic
Color ^l	706.01 (b) & 706.02 (b)	SM 2120 B (several editions)	IOC	1905	15 color units		Naturally occurring	Aesthetic
Corrosivity ^l	706.01 (b)	SM 2330 B (several editions)	IOC	1910	Non-corrosive		Combination of physical and chemical conditions	Aesthetic
Cyanide (as free CN) ^{i,s}	704.02	EPA 335.4 Rev. 1.0, SM 4500-CN C, E, F, G (several editions), Lachat 10-204-00-1-X (several revisions)	IOC	1024	0.2	0.02	Used in electroplating, steel proc, plastics, synthetic fibers	Neurological, thyroid problems
Fluoride (Primary Standard)	704.02	EPA 300.0 Rev. 2.1, SM 4500-F B, C, D, E (several editions)	IOC	1025	4	2	Geological; additive to drinking water, toothpaste	Skeletal damage/mottled teeth in children
Fluoride ^d (Secondary Standard)	706.01 (b)	EPA 300.0 Rev. 2.1, SM 4500-F B, C, D, E (several editions)	IOC	1025	2	2	Geological; additive to drinking water, toothpaste	Skeletal damage/mottled teeth in children
Foaming Agents ^l	706.01 (b) & 706.02 (b)	SM 5540 C (several editions)	IOC	2905	0.5			Aesthetic
Nitrate (as N)	704.02	EPA 300.0 Rev. 2.1, 353.2 Rev. 2.0, SM 4500-NO3 D, E, F (several editions)	IOC	1040	10	1	Geological; fertilizer, sewage, feedlots	Methemoglobinemia, "Blue Baby Syndrome"

Parameter	Env-Dw	Method	Group	SDWIS cont. ID#	MCL (mg/L)	Trigger/ DL (mg/L)	Source	Health Effects---at levels above the MCL
Nitrite (as N)	704.02	EPA 300.0 Rev. 2.1, 353.2 Rev. 2.0, SM 4500- NO2 B, SM 4500-NO3 D, E, F (several editions)	IOC	1041	1	0.01	Geological; fertilizer, sewage, feedlots	Methemoglobinemia, “Blue Baby Syndrome”
Total Nitrate and Nitrite	704.02	EPA 300.0 Rev. 2.1, 353.2 Rev. 2.0, SM 4500- NO3 D, E, F (several editions)	IOC	1038	10	5	Geological; fertilizer, sewage, feedlots	Methemoglobinemia, “Blue Baby Syndrome”
Odor ^l	706.01 (b) & 706.02 (b)	SM 2150 B (several editions)	IOC	1920	3 threshold odor number			Aesthetic
pH ^{b,d}	706.01 (b)	EPA 150.1 1983, EPA 150.2 1983, EPA 150.3 2017, SM 4500-H B (several editions)	IOC	1925	6.5-8.5	8.5	Precipitation and geology	Aesthetic
Sulfate ^d	706.01 (b)	EPA 300.0 Rev. 2.1, EPA 375.2 Rev. 2.0, SM 4500- SO4 C, D, E, F (several editions)	IOC	1055	250	250	Naturally occurring	Aesthetic
Sulfide ^l	706.01 (b) & 706.02 (b)	EPA 376.1 1978, EPA 376.2 1978	IOC	8	0.05	0.05	Naturally occurring	Aesthetic
Total Dissolved Solids ^l	706.01 (b) & 706.02 (b)	SM 2540 C (several editions)	IOC	1930	500	500	Naturally occurring	Aesthetic
Perfluorohexane Sulfonic Acid (PFHxS)	705.06 (b)	EPA 537, EPA 537.1 Version 1 (2018), EPA 537.1 Version 2 (2020), EPA 533	PFAS	2803	0.000018	2 ng/L	Industrial processes, firefighting foam, landfills, wastewater treatment and septic systems	Liver, endocrine, immune system problems, increased cholesterol, lower a woman’s chance of getting pregnant
Perfluorononanoic Acid (PFNA)	705.06 (b)	EPA 537, EPA 537.1 Version 1 (2018), EPA 537.1 Version 2 (2020), EPA 533	PFAS	2804	0.000011	2 ng/L	Industrial processes, firefighting foam, landfills, wastewater treatment and septic systems	Liver, endocrine, immune system problems, increased cholesterol
Perfluorooctane Sulfonic Acid (PFOS)	705.06 (b)	EPA 537, EPA 537.1 Version 1 (2018), EPA 537.1 Version 2 (2020), EPA 533	PFAS	2805	0.000015	2 ng/L	Industrial processes, firefighting foam, landfills, wastewater treatment and septic systems	Liver, endocrine, immune system problems, increased cholesterol, lower a woman’s chance of getting pregnant, increased risk of cancer

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Perfluorooctanoic Acid (PFOA)	705.06 (b)	EPA 537, EPA 537.1 Version 1 (2018), EPA 537.1 Version 2 (2020), EPA 533	PFAS	2806	0.000012	2 ng/L	Industrial processes, firefighting foam, landfills, wastewater treatment and septic systems	Liver, endocrine, immune system problems, increased cholesterol, lower a woman's chance of getting pregnant, increased risk of cancer
Analytical Gross Alpha ^e	710.03 (c)	EPA 00-02 1984, SM 7110C (several editions)	Rad	4002	n.e.	3 pCi/L	Erosion of natural deposits and radioactive materials	Increased risk of cancer
Compliance Gross Alpha	703.01 (a)	mathematical formula (Analytical Gross Alpha - Uranium)	Rad	4000	15 pCi/L	3 pCi/L	Erosion of natural deposits and radioactive materials	Increased risk of cancer
Radium 226 ^e	703.01 (a,c)	Ra-04 1997, Ra-05 1990, EPA 903.0 1980, EPA 903.1 1980, SM 7500-Ra B, C, E (several editions)	Rad	4020	n.e.	1 pCi/L	Erosion of natural deposits	Increased risk of cancer
Radium 228 ^e	703.01 (a,c)	EPA 904.0 1980, EPA Ra- 05 1984, SM 7400-Ra D, E (several editions)	Rad	4030	n.e.	1 pCi/L	Erosion of natural deposits	Increased risk of cancer
Radium 226 & 228 (Combined)	703.01 (a,c)	mathematical formula (Radium 226 + Radium 228)	Rad	4010	5 pCi/L	1 pCi/L	Erosion of natural deposits	Increased risk of cancer
Uranium (Mass)	703.01 (a)	EPA 200.8 Rev. 5.4	Rad	4006	30 ug/L	1 µg/L	Erosion of natural deposits	Increased risk of cancer; kidney problems
Radon ^k	703.02 (a)	SM 7500-Rn B (several editions)	Rad	4004	n.e.		Erosion of natural deposits and radioactive materials	Increased risk of cancer
Beta Particles ⁱ	703.01 (a)	ASTM D1890-90, ASTM D1890-96	Rad	4100	4 mrem/year	4 pCi/L	Decay of natural and man-made deposits	Increased risk of cancer
Alachlor (Lasso)	705.02 (b)	EPA 525.2, EPA 505	SOC	2051	0.002	0.0002	Herbicide used on corn, soybeans	Eyes, liver, kidney, or spleen problems; anemia; increased risk of cancer
Aldicarb (Temik) ^o	705.02 (b)	EPA 531.2	SOC	2047	0.003	0.0005	Insecticide used on cotton, potatoes	Sweating, leg weakness, nausea, nervous system problems
Aldicarb sulfoxide ^o	705.02 (b)	EPA 531.2	SOC	2043	0.004	0.0005	Degraded from Aldicarb by Plants	Nervous system problems
Aldicarb sulfone (aldoxycarb) ^o	705.02 (b)	EPA 531.2	SOC	2044	0.002	0.0008	Degraded from Aldicarb by Plants	Nervous system problems

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Atrazine (Atranex, Crisazine)	705.02 (b)	EPA 525.2	SOC	2050	0.003	0.0001	Herbicide, weed control	Cardiovascular system or reproductive problems
Carbofuran (Furadon, 4F)	705.02 (b)	EPA 531.1, EPA 531.2	SOC	2046	0.04	0.0009	Soil fumigation. Insecticide on corn, cotton	Nervous system, reproductive difficulties, headache, sweating, nausea
Chlordane	705.02 (b)	EPA 505	SOC	2959	0.002	0.0002	Banned Insecticide for termite control	Liver or nervous system problems; increased risk of cancer
Dalapon ^h	705.02 (b,c)	EPA 552.2, EPA 515.3, EPA 515.4, EPA 552.3	SOC	2031	0.2	0.001	Herbicide	Kidney problems
Dibromochloropropane (DBCP) or (1,2-Dibromo-3-Chloropropane)	705.02 (b,c)	EPA 504.1, EPA 551.1	SOC	2931	0.0002	0.00002	Soil fumigation on soybeans, corn; prohibited in 1977	Liver or kidney problems; increased risk of cancer
Di(2-ethylhexyl)adipate	705.02 (b)	EPA 525.2	SOC	2035	0.4	0.0006	Plastics	General toxic effects or reproductive difficulties; increased risk of cancer
Di(2-ethylhexyl)phthalate	705.02 (b)	EPA 525.2	SOC	2039	0.006	0.0006	Plastics	Liver and reproductive problems; increased risk of cancer
Dinoseb	705.02 (b)	EPA 555, EPA 515.1, EPA 515.3, EPA 515.4	SOC	2041	0.007	0.0002	Herbicide	Reproductive difficulties
Diquat	705.02 (b,c)	EPA 549.2	SOC	2032	0.02	0.0004	Herbicide	Cataracts
Endothall ^h	705.02 (b,c)	EPA 548.1	SOC	2033	0.1	0.009	Herbicide	Stomach and intestinal problems
Endrin ⁱ	705.02 (b) & 712.16	EPA 508, EPA 525.2, EPA 505	SOC	2005	0.002	0.00001	Banned Pesticide	Liver problems/nervous system effects
Ethylene dibromide (EDB)	705.02 (b,c)	EPA 504.1, EPA 551.1	SOC	2946	0.00005	0.00001	Gas additive; soil fumigant, solvent, prohibited in 1984	Reproductive, liver, or kidney problems, increased risk of cancer
Glyphosate	705.02 (b)	EPA 547	SOC	2034	0.7	0.006	Herbicide	Kidney problems; reproductive difficulties
Heptachlor	705.02 (b)	EPA 508, EPA 525.2, EPA 505	SOC	2065	0.0004	0.00004	Banned insecticide	Liver damage; increased risk of cancer
Heptachlor epoxide	705.02 (b)	EPA 508, EPA 525.2, EPA 505	SOC	2067	0.0002	0.00002	Breakdown product of heptachlor	Liver damage; increased risk of cancer
Hexachlorobenzene	705.02 (b)	EPA 508, EPA 525.2, EPA 505	SOC	2274	0.001	0.0001	Fungicide, wood preservatives	Liver or kidney problems; reproductive difficulties; increased risk of cancer

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Hexachlorocyclopentadiene	705.02 (b)	EPA 508, EPA 525.2, EPA 505	SOC	2042	0.05	0.0001	Waste By-Product in mfg. of Chlorinated Pesticides	Kidney or stomach problems
Lindane	705.02 (b)	EPA 508, EPA 525.2, EPA 505	SOC	2010	0.0002	0.00002	Insecticide used on seed, lumber, livestock, restricted 1983	Liver or kidney problems
Methoxychlor (DMDT, Martate)	705.02 (b)	EPA 508, EPA 525.2, EPA 505	SOC	2015	0.04	0.0001	Insecticide used on fruit trees, vegetables, livestock	Reproductive difficulties
Oxamyl (Vydate)	705.02 (b)	EPA 531.1, EPA 531.2	SOC	2036	0.2	0.002	Insecticide used on apples, potatoes, & tomatoes.	Slight nervous system effects
PAH (Benzo(a)pyrene)	705.02 (b)	EPA 525.2	SOC	2306	0.0002	0.00002	Fossil fuel, wood, coal, or tar burning	Reproductive difficulties; increased risk of cancer
Pentachlorophenol	705.02 (b)	EPA 525.2, EPA 515.1, EPA 515.3, EPA 515.4	SOC	2326	0.001	0.00004	Wood preservative and herbicide	Liver or kidney problems; increased risk of cancer
Picloram	705.02 (b)	EPA 515.1, EPA 515.3, EPA 515.4, EPA 555	SOC	2040	0.5	0.0001	Herbicide	Liver problems
Polychlorinated biphenyls (PCB) as Aroclors (Screen)	705.02 (b,c)	As Aroclors: EPA 505, as DCBP: EPA 508A (no accredited labs)	SOC	2383	0.0005	0.0001	Waste chemical runoff; old transformer	Skin changes; immune deficiencies; reproductive or nervous system deficiencies; increased risk of cancer
Aroclor - 1016	705.02 (c)	EPA 505	SOC	2388	0.00008	0.00008	Waste chemical runoff; old transformer	Skin changes; immune deficiencies; reproductive or nervous system deficiencies; increased risk of cancer
Aroclor - 1221	705.02 (c)	EPA 505	SOC	2390	0.02	0.02	Waste chemical runoff; old transformer	Skin changes; immune deficiencies; reproductive or nervous system deficiencies; increased risk of cancer
Aroclor - 1232	705.02 (c)	EPA 505	SOC	2392	0.0005	0.0005	Waste chemical runoff; old transformer	Skin changes; immune deficiencies; reproductive or nervous system deficiencies; increased risk of cancer
Aroclor - 1242	705.02 (c)	EPA 505	SOC	2394	0.0003	0.0003	Waste chemical runoff; old transformer	Skin changes; immune deficiencies; reproductive or nervous system deficiencies; increased risk of cancer
Aroclor - 1248	705.02 (c)	EPA 505	SOC	2396	0.0001	0.0001	Waste chemical runoff; old transformer	Skin changes; immune deficiencies; reproductive or nervous system deficiencies; increased risk of cancer

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Aroclor - 1254	705.02 (c)	EPA 505	SOC	2398	0.0001	0.0001	Waste chemical runoff; old transformer	Skin changes; immune deficiencies; reproductive or nervous system deficiencies; increased risk of cancer
Aroclor - 1260	705.02 (c)	EPA 505	SOC	2400	0.0002	0.0002	Waste chemical runoff; old transformer	Skin changes; immune deficiencies; reproductive or nervous system deficiencies; increased risk of cancer
Simazine	705.02 (b)	EPA 507, EPA 525.2	SOC	2037	0.004	0.00007	Herbicide	Blood problems
Toxaphene	705.02 (b)	EPA 505, EPA 508	SOC	2020	0.003	0.001	Insecticide used on cotton and cattle; prohibited in 1982	Liver, thyroid, or kidney problems; increased risk of cancer
2,3,7,8 TCDD (Dioxin)	705.02 (b,c)	EPA 1613B (1994)	SOC	2063	0.00000003	0.000000005	Combustion emissions	Reproductive difficulties; increased risk of cancer
2,4,5 TP (Silvex)	705.02 (b)	EPA 555, EPA 515.1, EPA 515.3, EPA 515.4	SOC	2110	0.05	0.0002	Herbicide (prohibited in 1984)	Liver problems
2,4-D	705.02 (b)	EPA 555, EPA 515.1, EPA 515.3, EPA 515.4	SOC	2105	0.07	0.0001	Herbicide to control broad leaf weeds	Kidney, liver, or adrenal gland problems
1,1,1-Trichloroethane	705.01 (b)	EPA 524.2	VOC	2981	0.2	0.5 ug/L	Industrial solvent/degreaser	Nervous system, circulatory, or liver problems
1,1,2-Trichloroethane	705.01 (b)	EPA 524.2	VOC	2985	0.005	0.5 ug/L	Industrial solvent	Kidney, liver, or immune system problems
1,1-Dichloroethylene	705.01 (b)	EPA 524.2	VOC	2977	0.007	0.5 ug/L	Industrial extraction solvent	Liver problems
1,2 Dichlorobenzene (ortho-Dichlorobenzene)	705.01 (b)	EPA 524.2	VOC	2968	0.6	0.5 ug/L	Industrial chemicals	Liver, kidney, or circulatory system problems
1,2 Dichloroethane	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2980	0.005	0.5 ug/L	Industrial extraction solvent	Increased risk of cancer
1,2,4-Trichlorobenzene	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2378	0.07	0.5 ug/L	Mfg. of herbicides, dye carrier	Adrenal gland problems
1,2-Dichloroethylene (cis-1,2-Dichloroethylene)	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2380	0.07	0.5 ug/L	Industrial extraction solvent	Liver problems
1,2-Dichloroethylene (trans-1,2-Dichloroethylene)	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2979	0.1	0.5 ug/L	Industrial extraction solvent	Liver problems
1,2-Dichloropropane	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2983	0.005	0.5 ug/L	Industrial solvent	Increased risk of cancer

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1,4 Dichlorobenzene (para-Dichlorobenzene)	705.01 (b)	EPA 524.2	VOC	2969	0.075	0.5 ug/L	Used in insecticides, moth balls, air deodorizers	Anemia; liver, kidney, or spleen problems
Benzene	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2990	0.005	0.5 ug/L	Gas additive; Industrial solvent	Anemia; increased risk of cancer
Carbon tetrachloride	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2982	0.005	0.5 ug/L	Industrial solvent/degreaser	Liver problems; increased risk of cancer
Dichloromethane (Methylene chloride)	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2964	0.005	0.5 ug/L	Solvent	Increased risk of cancer; liver problems
Ethylbenzene	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2992	0.7	0.5 ug/L	Gas additive	Kidney or liver problems
Methyl tertiary-butyl ether (MtBE) ^g	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2251	0.013	0.5 ug/L	Gasoline additive	Kidney or liver damage; increased risk of cancer
Methyl tertiary-butyl ether (MtBE) ^d	706.01 (b)	EPA 524.2, EPA 524.3	VOC	2251	0.02	0.5 ug/L	Gasoline additive	Kidney or liver damage; increased risk of cancer
Monochlorobenzene (Chlorobenzene)	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2989	0.1	0.5 ug/L	Industrial solvent	Liver or kidney problems
Styrene	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2996	0.1	0.5 ug/L	Plastic mfg. resins used in H2O treatment equip	Liver, kidney, or circulatory system problems
Tetrachloroethylene	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2987	0.005	0.5 ug/L	Dry cleaning, industrial solvent	Liver problems; increased risk of cancer
Toluene	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2991	1	0.5 ug/L	Gas additive; Industrial solvent	Kidney, nervous system, or liver problems
Trichloroethylene	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2984	0.005	0.5 ug/L	Waste from dry cleaning materials; industrial solvent	Liver problems; increased risk of cancer
Vinyl chloride	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2976	0.002	0.5 ug/L	Leaching from PVC pipes; plastics factory discharge	Increased risk of cancer
Xylene (Total)	705.01 (b)	EPA 524.2, EPA 524.3	VOC	2955	10	0.5 ug/L	Paint and Ink solvent: gas refining by-product	Nervous system damage
Chloroform (Trichloromethane) ^{f,m}	705.03 (c)	EPA 502.2, EPA 524.2, EPA 524.3, EPA 551.1	DBP	2941	combined 0.080		Disinfection by product	Increased risk of cancer
Bromoform ^{f,m}	705.03 (d)	EPA 502.2, EPA 524.2, EPA 524.3, EPA 551.1	DBP	2942	combined 0.080		Disinfection by product	Increased risk of cancer
Bromodichloromethane ^{f,m}	705.03 (d)	EPA 502.2, EPA 524.2, EPA 524.3, EPA 551.1	DBP	2943	combined 0.080		Disinfection by product	Increased risk of cancer

Parameter	Env-Dw	Method	Group	SDWIS cont. ID#	MCL (mg/L)	Trigger/ DL (mg/L)	Source	Health Effects---at levels above the MCL
Chlorodibromomethane (Dibromochloromethane) f,m	705.03 (d)	EPA 502.2, EPA 524.2, EPA 524.3, EPA 551.1	DBP	2944	combined 0.080		Disinfection by product	Increased risk of cancer
Total Trihalomethanes f,m	705.03 (c)	EPA 502.2, EPA 524.2, EPA 524.3, EPA 551.1	DBP	2950	0.08		Disinfection by product	Increased risk of cancer
Bromate m	705.03 (c)	EPA 300.1, EPA 317.0 Rev 2.0, EPA 326.0	DBP	1011	0.01		Disinfection by product (from ozonation process)	Increased risk of cancer
Chlorite m	705.03 (c)	EPA 300.0, EPA 300.1	DBP	1009	1		Disinfection by product (from use of chlorine dioxide)	Nervous system, increased risk of anemia
Haloacetic Acids m	705.03 (c)	EPA 552.2, EPA 532.3	DBP	2456	0.06			
Di-isopropyl ether (DIPE) ^e	603.03	EPA 524.2, EPA 524.3	VOCU	6	n.e.	0.5 ug/L	Gasoline additive	
Ethyl tertiary butyl ether (ETBE) ^e	603.03	EPA 524.2, EPA 524.3	VOCU	5	n.e.	0.5 ug/L	Gasoline additive	
Tertiary amyl methyl ether (TAME) ^e	603.03	EPA 524.2, EPA 524.3	VOCU	3	n.e.	0.5 ug/L	Gasoline additive	
Tertiary butyl alcohol (TBA) ^e	603.03	EPA 524.2, EPA 524.3	VOCU	4	n.e.	30 ug/L	Gasoline additive	
1,4-Dioxane (1 4- Diethyleneoxide) ^e	603.03	SW-846 8260B SIM, 8260C SIM, 8260D SIM, 8270C SIM, 8270D SIM	VOCU	2049	n.e.	0.32 ug/L	Stablizer for chlorinated solvents; consumer personal care products	

Abbreviations:

SDWIS – Safe Drinking Water Information System
MCL - Maximum Contaminant Level
Bio - biological parameter
Rad - radiological parameter
IOC - inorganic compound
PFAS – per- and polyfluoroalkyl substance
SOC - synthetic organic compound
VOC - volatile organic compound
VOCU - volatile organic compound - unregulated
DBP - disinfection by-product
n.e. - not established - reporting is required.

Footnotes:

- * Units are mg/L (milligrams per liter) unless otherwise noted
- ^a Fluoride has a primary MCL of 4.0 mg/L (Env-Dw 704.02) and a secondary MCL of 2.0 mg/L (Env-Dw 706.01)
- ^b pH is expressed in units of hydrogen ion activity
- ^c Lead and Copper samples are collected in tap water throughout the distribution system (Env-Dw 714)
- ^d Aesthetic Regulated Secondary MCLs (Env-Dw 706)
- ^e Recommended additional reporting parameters (Env-Dw 603.03)
- ^f TTHM MCL combined equals 0.080 mg/L; DBP Group samples are collected in tap water throughout the distribution system (Env-Dw 705.03 and Env-Dw 715)
- ^g MtBE has a primary MCL of 0.013 mg/L (Env-Dw 705.01) and a secondary MCL of 0.020 mg/L (Env-Dw 706.01)
- ^h Sampling required only as part of the initial pumping test and water quality sampling program required by Env-Dw 302 or Env-Dw 305, as applicable; Env-Dw 705.02(c)
- ⁱ Testing required for systems deemed vulnerable by DES and notified that testing is mandatory
- ^j Asbestos monitoring conducted every 9 years for systems containing asbestos pipes (Env-Dw 711)
- ^k Radon testing only required for initial water quality of new wells (Env-Dw 710.05)
- ^l Secondary MCLs waived after initial water quality testing (Env-Dw 706.02(b))
- ^m Only applicable to systems that add a chemical disinfectant in the treatment process (Env-Dw 705.03 and Env-Dw 715)
- ⁿ Monitoring and reporting requirements for nickel remain even though the MCL and MCLG were removed from state/federal regulations
- ^o MCLs have been federally established for Aldicarbs but no monitoring is required (Env-Dw 712.10)
- ^p Bio Group samples are collected during the initial pumping test and then in tap water throughout the distribution system (Env-Dw 709) or source water (Env-Dw 717)
- ^q Presence of Total Coliform may trigger additional requirements (Env-Dw 709, 717, and 720)
- ^r Special Sodium requirements mandate periodic sampling and reporting (Env-Dw 713.08)
- ^s Cyanide monitoring conducted every 9 years (Env-Dw 711.04)