

The laboratory must:

## NH Department of Environmental Services Drinking Water Program

## Analytical Requirements for Community Public Water Systems **2016**

Many of the parameters listed in the table below must be analyzed and reported to DES. **Please pay close attention to the footnotes on page 6 which further explain the sampling requirements.** The water system is responsible for sample collection, reporting, and ensuring that the correct analytical methods are used. Please visit <a href="http://des.nh.gov/organization/commissioner/pip/publications/co/documents/r-co-01-5.pdf">http://des.nh.gov/organization/commissioner/pip/publications/co/documents/r-co-01-5.pdf</a> to review the sample collection and preservation guidance document. Please contact DES Drinking Water and Groundwater Bureau at (603) 271-2513 with questions regarding drinking water compliance. Click on: <a href="http://www4.egov.nh.gov/DES/NHELAP/">http://www4.egov.nh.gov/DES/NHELAP/</a> to verify which labs are accredited by DES to perform analysis on drinking water samples.

- 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 Env-Dw 719.02, "Reporting Data from Laboratories" (which includes electronic reporting)

| Parameter                   | Env-Dw       | Group | SDWIS<br>contaminant<br>ID# | MCL (mg/L)                   | Trigger (mg/L) | Source  | Health Effectsat levels above the MCL                  |
|-----------------------------|--------------|-------|-----------------------------|------------------------------|----------------|---|--|
| E. coli <sup>p</sup>        | 702.03       | Bio   | 3014                        | Absent                       | Presence       | Human & animal fecal waste  | May cause gastro-intestinal illness                    |
| Total Coliform <sup>p</sup> | 702.03       | Bio   | 3100                        | n.e. <sup>q</sup>            | Presence       | Naturally present in the environment  | None, indicates possible presence of other bacteria    |
| Aluminum <sup>1</sup>       | 706.01 (b,c) | IOC   | 1002                        | $0.05^{1}$ – $0.2$           | 0.05           |   |  |
|                             | 706.02 (b)   |       |                             |                              |                |   |  |
| Antimony                    | 704.02       | IOC   | 1074                        | 0.006                        | 0.003          | Geological; flame retardants, ceramics, pesticides                                    | Increase in blood cholesterol; decrease in blood sugar |
| Arsenic                     | 704.02       | IOC   | 1005                        | 0.010                        | 0.005          | Erosion of natural geological deposits; pesticide residue, industrial waste           | Skin damage, circulatory system problems, carcinogen   |
| Asbestos <sup>j</sup>       | 704.02       | IOC   | 1094                        | 7 million fibers             | 3.5 MFL        | Decay of asbestos cement in water mains;  | Increased risk of developing benign                    |
| (fiber>10 micrometers)      |              |       |                             | per liter (MFL) <sup>j</sup> |                | erosion of natural deposits   | intestinal polyps                                      |
| Barium                      | 704.02       | IOC   | 1010                        | 2                            | 1              | Geological; oil/gas drilling, painting, industrial waste                              | Muscular weakness, increase in blood pressure          |
| Beryllium                   | 704.02       | IOC   | 1075                        | 0.004                        | 0.002          | Geological; used in high thermal conductivity materials                               | Intestinal lesions                                     |
| Cadmium                     | 704.02       | IOC   | 1015                        | 0.005                        | 0.0025         | Geological; mining, smelting, metal finishing; runoff from waste batteries and paints | Kidney damage  |
| Chloride <sup>d</sup>       | 706.01 (b)   | IOC   | 1017                        | 250 <sup>d</sup>             | 250            | Wastewater, road salt, water softeners, corrosion                                     | Aesthetic  |
| Chromium                    | 704.02       | IOC   | 1020                        | 0.1                          | 0.05           | Discharge from steel and pulp mills; erosion of natural deposits                      | Allergic dermatitis                                    |
| Color <sup>1</sup>          | 706.01 (b)   | IOC   |                             | 15 color units <sup>1</sup>  |                |   |  |
|                             | 706.02 (b)   |       |                             |                              |                |   |  |
| Copper <sup>c</sup>         | 704.03       | 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)   | IOC   | 1022                        | 1.0 <sup>d</sup>             | 1.3            |   |  |

| Parameter                        | Env-Dw                   | Group | SDWIS<br>contaminant<br>ID# | MCL (mg/L)                           | Trigger (mg/L) | Source   | Health Effectsat levels above the MCL                                   |
|----------------------------------|--------------------------|-------|-----------------------------|--------------------------------------|----------------|--|---|
| Corrosivity <sup>1</sup>         | 706.01 (b)               | IOC   |                             | Non-corrosive 1                      |                |  |   |
|                                  | 706.02 (b)               |       |                             |                                      |                |  |   |
| Cyanide (as free C) <sup>i</sup> | 704.02                   | IOC   | 1024                        | 0.2 <sup>i</sup>                     | 0.1            | Used in electroplating, steel proc, plastics, synthetic fibers | Neurological, thyroid problems  |
| Fluoride <sup>a</sup>            | 704.02                   | IOC   | 1025                        | 4.0 <sup>a</sup>                     | 2.0            | Geological; additive to drinking water, toothpaste             | Skeletal damage/mottled teeth in children                               |
| Fluoride <sup>d</sup>            | 706.01 (b)               | IOC   | 1025                        | 2.0 <sup>d</sup>                     | 2.0            |  |   |
| Foaming Agents 1                 | 706.01 (b)               | IOC   |                             | 0.5 1                                |                |  |   |
|                                  | 706.02 (b)               |       |                             |                                      |                |  |   |
| Iron <sup>d</sup>                | 706.01 (b)               | IOC   | 1028                        | 0.3 <sup>d</sup>                     | 0.3            | Geological   | Aesthetic   |
| Lead <sup>c</sup>                | 704.03                   | IOC   | 5000                        | Trigger exceeded at 90% <sup>c</sup> | 0.015          | Corrosion of household plumbing; erosion of natural deposits   | Delays in physical or mental development in infants and children        |
| Manganese <sup>d</sup>           | 706.01 (b)               | IOC   | 1032                        | 0.05 <sup>d</sup>                    | 0.05           | Geological   | Aesthetic   |
| Mercury                          | 704.02                   | IOC   | 1035                        | 0.002                                | 0.001          | Geological; used in mfg. of paint, paper, fungicides           | Nervous system disorders, kidney damage                                 |
| Nickel <sup>n</sup>              |                          | IOC   | 1036                        | n.e. <sup>n</sup>                    |                | Geological; electroplating, battery production, ceramics       | Heart, liver, skin, weight loss   |
| Nitrate (as N)                   | 704.02                   | IOC   | 1040                        | 10                                   | 5              | Geological; fertilizer, sewage, feedlots                       | Methemoglobinemia, "Blue Baby<br>Syndrome"                              |
| Nitrite (as N)                   | 704.02                   | IOC   | 1041                        | 1                                    | 0.5            | Geological; fertilizer, sewage, feedlots                       | Methemoglobinemia, "Blue Baby<br>Syndrome"                              |
| Total Nitrate and Nitrite        | 704.02                   | IOC   | 1038                        | 10                                   | 5              | Geological; fertilizer, sewage, feedlots                       | Methemoglobinemia, "Blue Baby<br>Syndrome"                              |
| Odor <sup>1</sup>                | 706.01 (b)               | IOC   |                             | 3 threshold odor                     |                |  |   |
|                                  | 706.02 (b)               |       |                             | number <sup>1</sup>                  |                |  |   |
| pH <sup>b,d</sup>                | 706.01 (b)               | IOC   | 1925                        | 6.5-8.5 <sup>b,d</sup>               | 8.5            | Precipitation and geology                                      | Aesthetic   |
| Selenium                         | 704.02                   | IOC   | 1045                        | 0.05                                 | 0.025          | Geological; by-product of copper mining/smelting               | Numbness in fingers or toes;<br>circulatory problems, hair or nail loss |
| Silver <sup>1</sup>              | 706.01 (b)<br>706.02 (b) | IOC   | 1050                        | $0.1^{1}$                            | 0.1            |  |   |
| Sodium <sup>r</sup>              | 706.01 (b)               | IOC   | 1052                        | 100-250                              | 250            | Road salt, septic systems (salt from water                     | Aesthetic   |
|                                  | 713.08                   |       |                             |                                      |                | softeners)   |   |
| Sulfate <sup>d</sup>             | 706.01 (b)               | IOC   | 1055                        | 250 <sup>d</sup>                     | 250            | Naturally occurring  |   |
| Sulfide <sup>1</sup>             | 706.01 (b)<br>706.02 (b) | IOC   | 0008                        | 0.051                                | 0.05           |  |   |
| Thallium                         | 704.02                   | IOC   | 1085                        | 0.002                                | 0.001          | Geological; electronics industry, alloys and glass mfg         | Kidney, liver, or intestinal problems;<br>blood chemistry; hair loss    |

| Parameter                           | Env-Dw       | Group | SDWIS<br>contaminant<br>ID# | MCL (mg/L)               | Trigger (mg/L) | Source  | Health Effectsat levels above the MCL  |
|-------------------------------------|--------------|-------|-----------------------------|--------------------------|----------------|---|--|
| Total Dissolved Solids <sup>1</sup> | 706.01 (b)   | IOC   | 1930                        | 500 <sup>l</sup>         | 500            |   |  |
|                                     | 706.02 (b)   |       |                             |                          |                |   |  |
| Zinc <sup>d</sup>                   | 706.01 (b)   | IOC   | 1095                        | 5 <sup>d</sup>           | 5              | Galvanized pipes                                      | Possible presence of other health related heavy metals                       |
| Analytical Gross Alpha <sup>e</sup> |              | Rad   | 4002                        | n.e. <sup>e</sup>        |                | Erosion of natural deposits and radioactive materials |  |
| Compliance Gross Alpha              | 703.01 (a)   | Rad   | 4000                        | 15 pCi/L                 | If Detected    | Erosion of natural deposits and radioactive materials | Increased risk of cancer   |
| Radium 226 <sup>e</sup>             | 703.01 (a,c) | Rad   | 4020                        | n.e.e                    |                | Erosion of natural deposits                           |  |
| Radium 228 <sup>e</sup>             | 703.01 (a,c) | Rad   | 4030                        | n.e.e                    |                | Erosion of natural deposits                           |  |
| Radium 226 & 228 (Combined)         | 703.01 (a,c) | Rad   | 4010                        | 5 pCi/L                  | If Detected    | Erosion of natural deposits                           | Increased risk of cancer   |
| Uranium (Mass)                      | 703.01 (a)   | Rad   | 4006                        | 30 ug/L                  | If Detected    | Erosion of natural deposits                           | Increased risk of cancer; kidney problems                                    |
| Radon <sup>k</sup>                  | 703.02 (a)   | Rad   | 4004                        | n.e. k                   |                | Erosion of natural deposits and radioactive materials | Increased risk of cancer   |
| Beta Particles i                    | 703.01 (a)   | Rad   | 4100                        | 4 mrem/year <sup>i</sup> | If Detected    | Decay of natural and man-made deposits                | Increased risk of cancer   |
| Alachlor (Lasso)                    | 705.02 (b)   | SOC   | 2051                        | 0.002                    | If Detected    | Herbicide used on corn, soybeans                      | Eyes, liver, kidney,or spleen problems; anemia; increased risk of cancer     |
| Aldicarb (Temik) °                  | 705.02 (b)   | SOC   | 2047                        | 0.003°                   | If Detected    | Insecticide used on cotton, potatoes                  | Sweating, leg weakness, nausea, nervous system problems                      |
| Aldicarb sulfoxide °                | 705.02 (b)   | SOC   | 2043                        | 0.004°                   | If Detected    | Degraded from Aldicarb by Plants                      | Nervous system problems  |
| Aldicarb sulfone (aldoxycarb) o     | 705.02 (b)   | SOC   | 2044                        | 0.002°                   | If Detected    | Degraded from Aldicarb by Plants                      | Nervous system problems  |
| Atrazine (Atranex, Crisazine)       | 705.02 (b)   | SOC   | 2050                        | 0.003                    | If Detected    | Herbicide, weed control                               | Cardiovascular system or reproductive problems                               |
| Carbofuran (Furadon, 4F)            | 705.02 (b)   | SOC   | 2046                        | 0.04                     | If Detected    | Soil fumigation. Insecticide on corn, cotton          | Nervous system, reproductive difficulties, headache, sweating, nausea        |
| Chlordane                           | 705.02 (b)   | SOC   | 2959                        | 0.002                    | If Detected    | Banned Insecticide for termite control                | Liver or nervous system problems; increased risk of cancer                   |
| Dalapon h                           | 705.02 (b,c) | SOC   | 2031                        | 0.2 <sup>h</sup>         | If Detected    | Herbicide   | Kidney problems  |
| Dibromochloropropane (DBCP) h       | 705.02 (b,c) | SOC   | 2931                        | 0.0002 <sup>h</sup>      | If Detected    | Soil fumigation on soybeans, corn; prohibited in 1977 | Liver or kidney problems; increased risk of cancer                           |
| Di(2-ethylhexyl)adipate             | 705.02 (b)   | SOC   | 2035                        | 0.4                      | If Detected    | Plastics  | General toxic effects or reproductive difficulties; increased risk of cancer |
| Di(2-ethylhexyl)phthalate           | 705.02 (b)   | SOC   | 2039                        | 0.006                    | If Detected    | Plastics  | Liver and reproductive problems; increased risk of cancer                    |
| Dinoseb                             | 705.02 (b)   | SOC   | 2041                        | 0.007                    | If Detected    | Herbicide   | Reproductive difficulties  |
| Diquat <sup>h</sup>                 | 705.02 (b,c) | SOC   | 2032                        | 0.02 <sup>h</sup>        | If Detected    | Herbicide   | Cataracts  |
| Endothall <sup>h</sup>              | 705.02 (b,c) | SOC   | 2033                        | 0.1 <sup>h</sup>         | If Detected    | Herbicide   | Stomach and intestinal problems  |

| Parameter                                    | Env-Dw       | Group | SDWIS<br>contaminant<br>ID# | MCL (mg/L)              | Trigger (mg/L) | Source   | Health Effectsat levels above the MCL  |
|--|--------------|-------|-----------------------------|-------------------------|----------------|--|--|
| Endrin <sup>i</sup>                          | 705.02 (b)   | SOC   | 2005                        | 0.002 i                 | If Detected    | Banned Pesticide   | Liver problems/nervous system effects  |
| Ethylene dibromide (EDB) h                   | 705.02 (b,c) | SOC   | 2946                        | 0.00005 <sup>h</sup>    | If Detected    | Gas additive; soil fumigant, solvent, prohibited in 1984     | Reproductive, liver, or kidney problems, increased risk of cancer  |
| Glyphosate                                   | 705.02 (b)   | SOC   | 2034                        | 0.7                     | If Detected    | Herbicide  | Kidney problems; reproductive difficulties   |
| Heptachlor                                   | 705.02 (b)   | SOC   | 2065                        | 0.0004                  | If Detected    | Banned insecticide   | Liver damage; increased risk of cancer   |
| Heptachlor epoxide                           | 705.02 (b)   | SOC   | 2067                        | 0.0002                  | If Detected    | Breakdown product of heptachlor                              | Liver damage; increased risk of cancer   |
| Hexachlorobenzene                            | 705.02 (b)   | SOC   | 2274                        | 0.001                   | If Detected    | Fungicide, wood preservatives                                | Liver or kidney problems; reproductive difficulties; increased risk of cancer                            |
| Hexachlorocyclopentadiene                    | 705.02 (b)   | SOC   | 2042                        | 0.05                    | If Detected    | Waste By-Product in mfg of Chlorinated Pesticides            | Kidney or stomach problems   |
| Lindane                                      | 705.02 (b)   | SOC   | 2010                        | 0.0002                  | If Detected    | Insecticide used on seed, lumber, livestock, restricted 1983 | Liver or kidney problems   |
| Methoxychlor (DMDT, Martate)                 | 705.02 (b)   | SOC   | 2015                        | 0.04                    | If Detected    | Insecticide used on fruit trees, vegetables, livestock       | Reproductive difficulties  |
| Oxamyl (Vydate)                              | 705.02 (b)   | SOC   | 2036                        | 0.2                     | If Detected    | Insecticide used on apples, potatoes, & tomatoes.            | Slight nervous system effects  |
| PAH (Benzo(a)pyrene)                         | 705.02 (b)   | SOC   | 2306                        | 0.0002                  | If Detected    | Fossil fuel, wood, coal, or tar burning                      | Reproductive difficulties; increased risk of cancer  |
| Pentachlorophenol                            | 705.02 (b)   | SOC   | 2326                        | 0.001                   | If Detected    | Wood preservative and herbicide                              | Liver or kidney problems; increased risk of cancer   |
| Picloram                                     | 705.02 (b)   | SOC   | 2040                        | 0.5                     | If Detected    | Herbicide  | Liver problems   |
| Polychlorinated biphenyls (PCB) <sup>h</sup> | 705.02 (b,c) | SOC   | 2383                        | 0.0005 <sup>h</sup>     | If Detected    | Waste chemical runoff; old transformer                       | Skin changes; immune deficiencies; reproductive or nervous system deficiencies; increased risk of cancer |
| Simazine                                     | 705.02 (b)   | SOC   | 2037                        | 0.004                   | If Detected    | Herbicide  | Blood problems   |
| Toxaphene                                    | 705.02 (b)   | SOC   | 2020                        | 0.003                   | If Detected    | Insecticide used on cotton and cattle; prohibited in 1982    | Liver, thyroid, or kidney problems; increased risk of cancer   |
| 2,3,7,8 TCDD (Dioxin) h                      | 705.02 (b,c) | SOC   | 2063                        | 0.00000003 <sup>h</sup> | If Detected    | Combustion emissions   | Reproductive difficulties; increased risk of cancer  |
| 2,4,5 TP (Silvex)                            | 705.02 (b)   | SOC   | 2110                        | 0.05                    | If Detected    | Herbicide (prohibited in 1984)                               | Liver problems   |
| 2,4-D  | 705.02 (b)   | SOC   | 2105                        | 0.07                    | If Detected    | Herbicide to control broad leaf weeds                        | Kidney, liver, or adrenal gland problems   |
| Benzene                                      | 705.01 (b)   | VOC   | 2990                        | 0.005                   | If Detected    | Gas additive; Industrial solvent                             | Anemia; increased risk of cancer   |
| Carbon tetrachloride                         | 705.01 (b)   | VOC   | 2982                        | 0.005                   | If Detected    | Industrial solvent/degreaser                                 | Liver problems; increased risk of cancer   |
| 1,2 Dichlorobenzene (o-)                     | 705.01 (b)   | VOC   | 2968                        | 0.6                     | If Detected    | Industrial chemicals   | Liver, kidney, or circulatory system problems  |
| 1,4 Dichlorobenzene (para-)                  | 705.01 (b)   | VOC   | 2969                        | 0.075                   | If Detected    | Used in insecticides, moth balls, air deodorizers            | Anemia; liver, kidney, or spleen problems  |

| Parameter                                       | Env-Dw     | Group | SDWIS<br>contaminant<br>ID# | MCL (mg/L)                       | Trigger<br>(mg/L) | Source  | Health Effectsat levels above the MCL            |
|---|------------|-------|-----------------------------|----------------------------------|-------------------|---|--|
| 1,2 Dichloroethane                              | 705.01 (b) | VOC   | 2980                        | 0.005                            | If Detected       | Industrial extraction solvent                         | Increased risk of cancer                         |
| 1,1-Dichloroethylene                            | 705.01 (b) | VOC   | 2977                        | 0.007                            | If Detected       | Industrial extraction solvent                         | Liver problems                                   |
| 1,2-Dichloroethylene (cis-)                     | 705.01 (b) | VOC   | 2380                        | 0.07                             | If Detected       | Industrial extraction solvent                         | Liver problems                                   |
| 1,2-Dichloroethylene (trans-)                   | 705.01 (b) | VOC   | 2979                        | 0.1                              | If Detected       | Industrial extraction solvent                         | Liver problems                                   |
| Dichloromethane (methylene chloride)            | 705.01 (b) | VOC   | 2964                        | 0.005                            | If Detected       | Solvent   | Increased risk of cancer; liver problems         |
| 1,2-Dichloropropane                             | 705.01 (b) | VOC   | 2983                        | 0.005                            | If Detected       | Industrial solvent                                    | Increased risk of cancer                         |
| Ethylbenzene                                    | 705.01 (b) | VOC   | 2992                        | 0.7                              | If Detected       | Gas additive  | Kidney or liver problems                         |
| Methyl tertiary-butyl ether (MtBE) <sup>g</sup> | 705.01 (b) | VOC   | 2251                        | 0.013 <sup>g</sup>               | If Detected       | Gasoline additive                                     | Kidney or liver damage; increased risk of cancer |
| Methyl tertiary-butyl ether (MtBE) <sup>d</sup> | 706.01 (b) | VOC   | 2251                        | 0.020 <sup>d</sup>               | 0.020             |   |  |
| Monochlorobenzene<br>(Chlorobenzene)            | 705.01 (b) | VOC   | 2989                        | 0.1                              | If Detected       | Industrial solvent                                    | Liver or kidney problems                         |
| Styrene   | 705.01 (b) | VOC   | 2996                        | 0.1                              | If Detected       | Plastic mfg; resins used in H2O treatment equip       | Liver, kidney, or circulatory system problems    |
| Tetrachloroethylene                             | 705.01 (b) | VOC   | 2987                        | 0.005                            | If Detected       | Dry cleaning, industrial solvent                      | Liver problems; increased risk of cancer         |
| Toluene   | 705.01 (b) | VOC   | 2991                        | 1                                | If Detected       | Gas additive; Industrial solvent                      | Kidney, nervous system, or liver problems        |
| 1,1,1-Trichloroethane                           | 705.01 (b) | VOC   | 2981                        | 0.2                              | If Detected       | Industrial solvent/degreaser                          | Nervous system, circulatory, or liver problems   |
| 1,2,4-Trichlorobenzene                          | 705.01 (b) | VOC   | 2378                        | 0.07                             | If Detected       | Mfg of herbicides, dye carrier                        | Adrenal gland problems                           |
| 1,1,2-Trichloroethane                           | 705.01 (b) | VOC   | 2985                        | 0.005                            | If Detected       | Industrial solvent                                    | Kidney, liver, or immune system problems         |
| Trichloroethylene                               | 705.01 (b) | VOC   | 2984                        | 0.005                            | If Detected       | Waste from dry cleaning materials; industrial solvent | Liver problems; increased risk of cancer         |
| Vinyl chloride                                  | 705.01 (b) | VOC   | 2976                        | 0.002                            | If Detected       | Leaching from PVC pipes; plastics factory discharge   | Increased risk of cancer                         |
| Xylene (total)                                  | 705.01 (b) | VOC   | 2955                        | 10                               | If Detected       | Paint and Ink solvent: gas refining by-<br>product    | Nervous system damage                            |
| Chloroform (Trichloromethane) f,m               | 705.03 (c) | DBP   | 2941                        | combined<br>0.080 <sup>f,m</sup> |                   | Disinfection by product                               | Increased risk of cancer                         |
| Bromoform f,m                                   | 705.03 (d) | DBP   | 2942                        | combined 0.080 <sup>f,m</sup>    |                   | Disinfection by product                               | Increased risk of cancer                         |
| Bromodichloromethane f,m                        | 705.03 (d) | DBP   | 2943                        | combined<br>0.080 <sup>f,m</sup> |                   | Disinfection by product                               | Increased risk of cancer                         |
| Chlorodibromomethane (Dibromochloromethane) f,m | 705.03 (d) | DBP   | 2944                        | combined 0.080 <sup>f,m</sup>    |                   | Disinfection by product                               | Increased risk of cancer                         |

| Parameter                                      | Env-Dw     | Group | SDWIS<br>contaminant<br>ID# | MCL (mg/L)           | Trigger<br>(mg/L) | Source   | Health Effectsat levels above the MCL    |
|--|------------|-------|-----------------------------|----------------------|-------------------|--|--|
| Total Trihalomethanes f,m                      | 705.03 (c) | DBP   | 2950                        | 0.080 <sup>f,m</sup> |                   | Disinfection by product                                | Increased risk of cancer                 |
| Bromate <sup>m</sup>                           | 705.03 (c) | DBP   | 1011                        | 0.010 <sup>m</sup>   |                   | Disinfection by product (from ozonation process)       | Increased risk of cancer                 |
| Chlorite m                                     | 705.03 (c) | DBP   | 1009                        | 1.0 <sup>m</sup>     |                   | Disinfection by product (from use of chlorine dioxide) | Nervous system, increased risk of anemia |
| Haloacetic Acids <sup>m</sup>                  | 705.03 (c) | DBP   | 2456                        | 0.060 <sup>m</sup>   |                   |  |  |
| Di-isopropyl ether (DIPE) <sup>e</sup>         |            | VOCU  | 0006                        | n.e. <sup>e</sup>    |                   | Gasoline additive                                      |  |
| Ethyl tertiary butyl ether (ETBE) <sup>e</sup> |            | VOCU  | 0005                        | n.e. <sup>e</sup>    |                   | Gasoline additive                                      |  |
| Tertiary amyl methyl ether (TAME) <sup>e</sup> |            | VOCU  | 0003                        | n.e. <sup>e</sup>    |                   | Gasoline additive                                      |  |
| Tertiary butyl alcohol (TBA) <sup>e</sup>      |            | VOCU  | 0004                        | n.e. <sup>e</sup>    |                   | Gasoline additive                                      |  |

## Abbreviations:

SDWIS – Safe Drinking Water Information System

MCL - Maximum Contaminant Level

Bio - biological parameter

Rad - radiological parameter

IOC - inorganic compound

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:

- <sup>a</sup> 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)
- <sup>b</sup>pH is expressed in units of hydrogen ion activity
- <sup>c</sup>Lead and Copper samples are collected in tap water throughout the distribution system: Env-Dw 714
- <sup>d</sup> Aesthetic Regulated Secondary MCLs: Env-Dw 706
- <sup>e</sup> Recommended additional reporting parameters
- 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)
- <sup>h</sup> Sampling required only as part of the initial pumping test and water quality sampling program required by Env-Dw 301 or Env-Dw 302, as applicable; Env-Dw 705.02(c)
- <sup>1</sup>Testing required only for systems deemed vulnerable by DES and notified that testing is mandatory
- <sup>j</sup>Monitoring for Asbestos is conducted every 9 years for systems containing asbestos lined pipes: Env-Dw 711
- <sup>k</sup> Radon testing only required for initial water quality of new wells: Env-Dw 710.05
- <sup>1</sup> 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
- <sup>n</sup> Monitoring and reporting requirements for nickel remain even though the MCL and MCLG were removed from state/federal regulations
- <sup>o</sup> 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)
- <sup>q</sup> Presence of Total Coliform may trigger additional requirements (Env-Dw 709, 717, & 720)
- <sup>r</sup> Special Sodium requirements mandate periodic sampling and reporting (Env-Dw 713.08)

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