|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. | | | | | | |
| **Turbidity** | **Allowable Levels** | **Highest Single Result** | **Lowest Monthly Percent** | **Date of**  **Sample** | **Violation** | **Likely Source of**  **Contamination** |
| (NTU) TT  \* Representative samples of filtered water | No more than 1 NTU\* Less than 0.3 NTU in 95% of monthly samples |  |  |  |  | Naturally present in the environment |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Lead and Copper**  **[code] (units)** | **Action Level**  **(AL)** | **MCLG** | **90th Percentile** | **Sites Exceeding**  **Action Level** | **Date of**  **Sample** | **Violation** | **Likely Source of**  **Contamination** |
| Copper  [1022] (ppm) | 1.3 | 1.3 |  |  |  |  | Corrosion of household plumbing systems |
| Lead  [1030] (ppb) | 15 | 0 |  |  |  |  | Corrosion of household plumbing systems |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Regulated Contaminant**  **[code] (units)** | **MCL** | **MCLG** | **Report**  **Level** | **Range of Detection** | **Date of**  **Sample** | **Violation** | **Likely Source of**  **Contamination** |
| E.coli Bacteria  % positive samples | 0% | 0 |  | N/A |  |  | Human and animal fecal waste |
| Beta photon emitters  (pCi/L) | 50 | 0 |  |  |  |  | Decay of natural and man-made deposits |
| Alpha emitters  [4000] (pCi/L) | 15 | 0 |  |  |  |  | Erosion of natural deposits |
| Combined radium  (pCi/L) | 5 | 0 |  |  |  |  | Erosion of natural deposits |
| Uranium  (µg/L) | 30 | 0 |  |  |  |  | Erosion of natural deposits |
| Antimony  [1074] (ppb) | 6 | 6 |  |  |  |  | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder |
| Arsenic  [1005] (ppb) | 10 | N/A |  |  |  |  | Natural erosion; runoff from orchards or glass and electronics production wastes |
| Asbestos  (MFL) | 7 | 7 |  |  |  |  | Decay of asbestos cement water mains; erosion of natural deposits |
| Barium  [1010] (ppm) | 2 | 2 |  |  |  |  | Drilling wastes; metal refineries; erosion of natural deposits |
| Beryllium  [1075] (ppb) | 4 | 4 |  |  |  |  | Coal-burning factories; metal refineries; electrical, defense, and aerospace industries |
| Cadmium  [1015] (ppb) | 5 | 5 |  |  |  |  | Natural deposits; corrosion of galvanized pipes; metal refineries; batteries and paints |
| Chromium  [1020] (ppb) | 100 | 100 |  |  |  |  | Discharge from steel and pulp mills; erosion of natural deposits |
| Cyanide  [1024] (ppb) | 200 | 200 |  |  |  |  | Discharge from steel/metal factories; plastic and fertilizer factories |
| Fluoride  [1025] (ppm) | 4 | 4 |  |  |  |  | Water additive which promotes strong teeth; erosion of natural deposits |
| Mercury  [1035] (ppb) | 2 | 2 |  |  |  |  | Erosion of natural deposits; refineries and factories; landfills; runoff from cropland |
| Nickel (ppm)  (US EPA remanded MCL in February 1995.) | N/A | N/A |  |  |  |  | N/A |
| Nitrate  [1040] (ppm) | 10 | 10 |  |  |  |  | Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits |
| Nitrite  [1041] (ppm) | 1 | 1 |  |  |  |  | Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits |
| Selenium  [1045] (ppb) | 50 | 50 |  |  |  |  | Discharge from petroleum and metal refineries or mines; erosion of natural deposits |
| Thallium  [1085] (ppb) | 2 | 0.5 |  |  |  |  | Leaching from ore-processing sites; discharge from glass, electronics, and drug factories |
| 2,4-D  [2105] (ppb) | 70 | 70 |  |  |  |  | Runoff from herbicide used on row crops |
| 2,4,5-TP (Silvex)  [2110] (ppb) | 50 | 50 |  |  |  |  | Residue of banned herbicide |
| Acrylamide | TT | 0 |  |  |  |  | Added to water during sewage/wastewater treatment |
| Alachlor  [2051] (ppb) | 2 | 0 |  |  |  |  | Runoff from herbicide used on row crops |
| Atrazine  [2050] (ppb) | 3 | 3 |  |  |  |  | Runoff from herbicide used on row crops |
| Benzo(a)pyrene(PAH)  [2306] (ppt) | 200 | 0 |  |  |  |  | Leaching from linings of water storage tanks and distribution lines |
| Carbofuran  [2046] (ppb) | 40 | 40 |  |  |  |  | Leaching of soil fumigant used on rice and alfalfa |
| Chlordane  [2959] (ppb) | 2 | 0 |  |  |  |  | Residue of banned termiticide |
| Dalapon  [2031] (ppb) | 200 | 200 |  |  |  |  | Runoff from herbicide used on rights of way |
| Di(2-ethylhexyl) adipate  [2035] (ppb) | 400 | 400 |  |  |  |  | Discharge from chemical factories |
| Di(2-ethylhexyl)phthalate  [2039] (ppb) | 6 | 0 |  |  |  |  | Discharge from rubber and chemical factories |
| Dibromochloropropane  [2931] (ppt) | 200 | 0 |  |  |  |  | Runoff/leaching from soil fumigant used on soybeans, cotton, and orchards |
| Dinoseb  [2041] (ppb) | 7 | 7 |  |  |  |  | Runoff from herbicide used on soybeans and vegetables |
| Diquat  [2032] (ppb) | 20 | 20 |  |  |  |  | Runoff from herbicide use |
| Dioxin  [2,3,7,8-TCDD] (ppq) | 30 | 0 |  |  |  |  | Waste incineration and other combustion; discharge from chemical factories |
| Endothall  [2033] (ppb) | 100 | 100 |  |  |  |  | Runoff from herbicide use |
| Endrin  [2005] (ppb) | 2 | 2 |  |  |  |  | Residue of banned insecticide |
| Epichlorohydrin | TT | 0 |  |  |  |  | Industrial chemical factories; an impurity of some water treatment chemicals |
| Ethylene dibromide  [2946] (ppt) | 50 | 0 |  |  |  |  | Discharge from petroleum refineries |
| Glyphosate  [2034] (ppb) | 700 | 700 |  |  |  |  | Runoff from herbicide use |
| Heptachlor  [2065] (ppt) | 400 | 0 |  |  |  |  | Residue of banned termiticide |
| Heptachlor epoxide  [2067] (ppt) | 200 | 0 |  |  |  |  | Breakdown of heptachlor |
| Hexachlorobenzene  [2274] (ppb) | 1 | 0 |  |  |  |  | Discharge from metal refineries and agricultural chemical factories |
| Hexachlorocyclo-  pentadiene [2042] (ppb) | 50 | 50 |  |  |  |  | Discharge from chemical factories |
| Lindane  [2010] (ppt) | 200 | 200 |  |  |  |  | Runoff from insecticide used on cattle, lumber, gardens |
| Methoxychlor  [2015] (ppb) | 40 | 40 |  |  |  |  | Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock |
| Oxamyl (Valdate)  [2036] (ppb) | 200 | 200 |  |  |  |  | Runoff/leaching from insecticide used on apples, potatoes and tomatoes |
| PCB's  (Polychlorinated  biphenyls) [2383] (ppt) | 500 | 0 |  |  |  |  | Runoff from landfills; discharge of waste chemicals |
| Pentachlorophenol  [2326] (ppb) | 1 | 0 |  |  |  |  | Discharge from wood preserving factories |
| Picloram  [2040] (ppb) | 500 | 500 |  |  |  |  | Herbicide runoff |
| Simazine  [2037] (ppb) | 4 | 4 |  |  |  |  | Herbicide runoff |
| Toxaphene  [2020] (ppb) | 3 | 0 |  |  |  |  | Runoff from insecticide used on cotton and cattle |
| Benzene  [2990] (ppb) | 5 | 0 |  |  |  |  | Discharge from factories; gas storage tanks and landfills |
| Carbon tetrachloride  [2982] (ppb) | 5 | 0 |  |  |  |  | Discharge from chemical plants and other industries |
| Chlorobenzene  [2989] (ppb) | 100 | 100 |  |  |  |  | Discharge from chemical and agricultural chemical factories |
| o-Dichlorobenzene  [2968] (ppb) | 600 | 600 |  |  |  |  | Discharge from industrial chemical factories |
| p-Dichlorobenzene  [2969] (ppb) | 75 | 75 |  |  |  |  | Discharge from industrial chemical factories |
| 1,2-Dichloroethane  [2980] (ppb) | 5 | 0 |  |  |  |  | Discharge from industrial chemical factories |
| 1,1-Dichloroethylene  [2977] (ppb) | 7 | 7 |  |  |  |  | Discharge from industrial chemical factories |
| cis-1,2-Dichloroethylene  [2380] (ppb) | 70 | 70 |  |  |  |  | Discharge from industrial chemical factories |
| trans-1,2-Dichloroethylene  [2979] (ppb) | 100 | 100 |  |  |  |  | Discharge from industrial chemical factories |
| Dichloromethane  [2964] (ppb) | 5 | 0 |  |  |  |  | Pharmaceutical and chemical factories discharge |
| 1,2-Dichloropropane  [2983] (ppb) | 5 | 0 |  |  |  |  | Discharge from industrial chemical factories |
| Ethylbenzene  [2992] (ppb) | 700 | 700 |  |  |  |  | Discharge from petroleum refineries |
| Styrene  [2996] (ppb) | 100 | 100 |  |  |  |  | Discharge from rubber and plastic factories; landfills |
| Tetrachloroethylene  [2987] (ppb) | 5 | 0 |  |  |  |  | Leaching from PVC pipes; discharge from factories and dry cleaners |
| 1,2,4-Trichlorobenzene  [2378] (ppb) | 70 | 70 |  |  |  |  | Discharge from textile-finishing factories |
| 1,1,1-Trichloroethane  [2981] (ppb) | 200 | 200 |  |  |  |  | Discharge from metal degreasing sites; factories |
| 1,1,2-Trichloroethane  [2985] (ppb) | 5 | 3 |  |  |  |  | Discharge from industrial chemical factories |
| Trichloroethylene  [2984] (ppb) | 5 | 0 |  |  |  |  | Discharge from metal degreasing sites; factories |
| Toluene  [2991] (ppm) | 1 | 1 |  |  |  |  | Discharge from petroleum factories |
| Vinyl Chloride  [2976] (ppb) | 2 | 0 |  |  |  |  | Discharge from plastics factories; PVC piping |
| Xylenes  [2955] (ppm) | 10 | 10 |  |  |  |  | Discharge from petroleum factories; chemical factories |
| Total Organic Carbon (ppm)  (measured as ppm, but  reported as a ratio) | TT\* | N/A | (lowest  average) | (monthly ratios) |  |  | Naturally present in environment. |
| \*Monthly ratio is the % TOC removal achieved to the % TOC removal required. Annual average must be 1.00 or greater for compliance. | | | | | | | |
| Bromate  (ppb) | 10 | 0 |  |  |  |  | Byproduct of drinking water chlorination |
| Chloramines  (ppm) | MRDL  = 4 | MRDLG  = 4 | (highest  average) |  |  |  | Water additive used to control microbes. |
| Chlorine  (ppm) | MRDL  = 4 | MRDLG  = 4 | (highest  average) |  |  |  | Water additive used to control microbes. |
| Chlorite  (ppm) | 1 | 0.8 | (average) |  |  |  | Byproduct of drinking water disinfection |
| Chlorine dioxide (ppb) | MRDL  = 800 | MRDLG  = 800 |  |  |  |  | Water additive used to control microbes |
| HAA (ppb) (Stage 2)  [Haloacetic acids] | 60 | N/A | (high site average) | (range of individual sites) |  |  | Byproduct of drinking water disinfection |
| HAA (ppb) (Stage 2)  [Haloacetic acids]  (Annual Sample) | 60 | N/A | (high site) | (range of individual sites) |  |  | Byproduct of drinking water disinfection |
| TTHM (ppb) (Stage 2)  [total trihalomethanes] | 80 | N/A | (high site average) | (range of individual sites) |  |  | Byproduct of drinking water disinfection |
| TTHM (ppb) (Stage 2)  [total trihalomethanes]  (Annual Sample) | 80 | N/A | (high site) | (range of individual sites) |  |  | Byproduct of drinking water disinfection |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Cryptosporidium  [oocysts/L] | 0 | TT  (99% removal) | (positive samples) | (number of samples) |  |  | Human and animal fecal waste |
| Radon | N/A | N/A | (positive samples) | (number of samples) |  |  | Naturally present in the environment |

|  |  |  |  |
| --- | --- | --- | --- |
| **Unregulated Contaminants (UCMR 4)** | **average** | **range (ppb)** | **date** |
| total microcystin |  |  |  |
| microcystin-LA |  |  |  |
| microcystin-LF |  |  |  |
| microcystin-LR |  |  |  |
| microcystin-LY |  |  |  |
| microcystin-RR |  |  |  |
| microcystin-YR |  |  |  |
| Nodularin |  |  |  |
| anatoxin-a |  |  |  |
| cylindrospermopsin |  |  |  |
| Germanium |  |  |  |
| Manganese |  |  |  |
| alpha-hexachlorocyclohexane |  |  |  |
| Chlorpyrifos |  |  |  |
| Dimethipin |  |  |  |
| Ethoprop |  |  |  |
| Oxyfluorfen |  |  |  |
| Profenofos |  |  |  |
| tebuconazole |  |  |  |
| total permethrin (cis- & trans-) |  |  |  |
| Tribufos |  |  |  |
| HAA5 |  |  |  |
| HAA6Br |  |  |  |
| HAA9 |  |  |  |
| 1-butanol |  |  |  |
| 2-methoxyethanol |  |  |  |
| 2-propen-1-ol |  |  |  |
| butylated hydroxyanisole |  |  |  |
| o-toluidine |  |  |  |
| Quinoline |  |  |  |
| Your drinking water has been sampled for a series of unregulated contaminants. Unregulated contaminants are those that EPA has not established drinking water standards. There are no MCLs and therefore no violations if found. The purpose of monitoring for these contaminants is to help EPA determine where the contaminants occur and whether they should have a standard. As our customers, you have a right to know that these data are available. If you are interested in examining the results, please contact our office during normal business hours. | | | |

|  |  |  |
| --- | --- | --- |
|  | **average** | **range of detection** |
| Fluoride (added for dental health) |  |  |
| Sodium (EPA guidance level = 20 mg/L) |  |  |