

AKRON DRINKING WATER

OHIO EPA REGULATED ANALYSES - 2006

This chart is available on-line at www.ci.akron.oh.us/PubUtil/pdf/2006allwatertests.pdf

| INORGANIC CHEMICALS AT PLANT TAP | AKRON WATER | AKRON WATER | AKRON WATER | OHIO EPA | Did Akron water meet EPA primary limit? |
|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|
| | AVERAGE LEVEL MILLIGRAMS PER LITER | MINIMUM LEVEL MILLIGRAMS PER LITER | MAXIMUM LEVEL MILLIGRAMS PER LITER | MAXIMUM LIMIT MILLIGRAMS PER LITER | |
| Antimony | <0.004 | <0.004 | <0.004 | 0.006 | yes |
| Arsenic | <0.003 | <0.003 | <0.003 | 0.010 | yes |
| Barium | 0.0309 | 0.0309 | 0.0309 | 2 | yes |
| Beryllium | <0.0005 | <0.0005 | <0.0005 | 0.004 | yes |
| Cadmium | <0.0002 | <0.0002 | <0.0002 | 0.005 | yes |
| Chlorine, free residual | 2.73 | 1.59 | 4.1 | 0.2 minimum | yes |
| Chlorine, combined | 0.21 | 0.04 | 0.56 | no EPA limit | not applicable |
| Chromium | <0.005 | <0.005 | <0.005 | 0.1 | yes |
| Copper | 0.0113 | 0.0083 | 0.0157 | 1.3 | yes |
| Cyanide | <0.010 | <0.010 | <0.010 | 0.2 | yes |
| Fluoride | 0.98 | 0.77 | 1.27 | 4.0 primary 2.0 secondary | yes |
| Lead | see below | see below | see below | 0.050 | not applicable |
| Manganese | 0.024 | 0.004 | 0.085 | 0.05 secondary | not applicable |
| Mercury | <0.0002 | <0.0002 | <0.0002 | 0.002 | yes |
| Nickel | <0.005 | <0.005 | <0.005 | 0.1 | yes |
| Nitrate | 0.63 | 0.50 | 0.84 | 10 | yes |
| Selenium | <0.005 | <0.005 | <0.005 | 0.05 | yes |
| Thallium | <0.001 | <0.001 | <0.001 | 0.002 | yes |

| LEAD & COPPER AT CUSTOMER TAPS | AKRON WATER | AKRON WATER | AKRON WATER | OHIO EPA MAXIMUM 90th PERCENTILE LIMIT | Did Akron water meet EPA limit? |
|---|---|---------------------------------------|---------------------------------------|--|---------------------------------------|
| | 90th PERCENTILE LEVEL MILLIGRAMS PER LITER | MINIMUM LEVEL MILLIGRAMS PER LITER | MAXIMUM LEVEL MILLIGRAMS PER LITER | MILLIGRAMS PER LITER | |
| Lead | <.005 | <.005 | 0.0098 | 0.015 | yes |
| Copper | 0.246 | 0.0099 | 0.593 | 1.300 | yes |

| ORGANIC DISINFECTION BYPRODUCTS (DBPs) DISTRIBUTION SYSTEM | AKRON WATER | AKRON WATER | AKRON WATER | OHIO EPA | Did Akron water meet EPA limit? |
|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| | AVERAGE LEVEL MICROGRAMS PER LITER | MINIMUM LEVEL MICROGRAMS PER LITER | MAXIMUM LEVEL MICROGRAMS PER LITER | MAXIMUM LIMIT MICROGRAMS PER LITER | |
| Trihalomethanes, total, running annual average | 48.2 | 43.7 | 53.6 | 80 | yes |
| Trihalomethanes, quarterly average | 49.9 | 18.3 | 98.0 | no EPA limit | not applicable |
| Haloacetic acids, HAA5, running annual average | 34.0 | 28.1 | 40.9 | 60 | yes |
| Haloacetic acids, HAA5, quarterly average | 40.9 | 16.3 | 65.5 | no EPA limit | not applicable |

| INORGANIC DISINFECTION BYPRODUCTS (DBPs) | AKRON WATER | AKRON WATER | AKRON WATER | OHIO EPA | Did Akron water meet EPA limit? |
|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| | AVERAGE LEVEL MILLIGRAMS PER LITER | MINIMUM LEVEL MILLIGRAMS PER LITER | MAXIMUM LEVEL MILLIGRAMS PER LITER | MAXIMUM LIMIT MILLIGRAMS PER LITER | |
| Chlorite, at plant tap | 0.61 | 0.00 | 1.40 | no EPA limit | not applicable |
| Chlorite, average of 3 samples in distribution system | 0.526 | 0.128 | 0.867 | 1.0 | yes |
| Chlorate | 0.35 | 0.04 | 0.97 | no EPA limit | not applicable |

| DISINFECTANT RESIDUALS | AKRON WATER | AKRON WATER | AKRON WATER | OHIO EPA | Did Akron water meet EPA limit? |
|---|--|--|--|----------------------|---------------------------------------|
| | AVERAGE LEVEL | MINIMUM LEVEL | MAXIMUM LEVEL | MAXIMUM LIMIT | |
| | MILLIGRAMS PER LITER | MILLIGRAMS PER LITER | MILLIGRAMS PER LITER | MILLIGRAMS PER LITER | |
| Free Chlorine, of 2446 distribution samples | 1.28 | 0.00 | 3.20 | no EPA limit | not applicable |
| Free Chlorine, percent less than 0.2 milligrams per liter for each month, distribution samples | 0.4% | 0.0% | 2.1% | 5% | yes |
| Total Chlorine, running annual average calculated quarterly | 1.34 | 1.32 | 1.37 | 4.0 | yes |
| Chlorine Dioxide, at plant tap, daily 1-day reading | 0.11 | 0.02 | 0.55 | no EPA limit | not applicable |
| Chlorine Dioxide, plant tap, lowest of 2 consecutive days | 0.08 | 0.02 | 0.31 | 0.8 | yes |
| Chlorine Dioxide, closest customer, highest of 3 readings, 6 hrs apart, after a daily plant tap over 0.8 mg/L | no test required, because no plant tap readings above 0.8 mg/L | no test required, because no plant tap readings above 0.8 mg/L | no test required, because no plant tap readings above 0.8 mg/L | 0.8 | yes |

| MICROBIOLOGY (TOTAL COLIFORM) DISTRIBUTION SYSTEM | AKRON WATER | AKRON WATER | AKRON WATER | OHIO EPA | Did Akron water meet EPA limit? |
|--|---------------|---------------|---------------|---------------|---------------------------------------|
| | AVERAGE LEVEL | MINIMUM LEVEL | MAXIMUM LEVEL | MAXIMUM LIMIT | |
| | | | | | |
| Coliform positives, percent per month | 0.04% | 0.0% | 0.5% | 5% | yes |
| Repeat coliform positives | 0 | 0 | 0 | 0 | yes |

| TURBIDITY | AKRON WATER | AKRON WATER | AKRON WATER | OHIO EPA | Did Akron water meet EPA limit? |
|---|---------------------|---------------------|---------------------|---------------------|---------------------------------------|
| | AVERAGE LEVEL | MINIMUM LEVEL | MAXIMUM LEVEL | MAXIMUM LIMIT | |
| | NEPHELOMETRIC UNITS | NEPHELOMETRIC UNITS | NEPHELOMETRIC UNITS | NEPHELOMETRIC UNITS | |
| Turbidity | 0.068 | 0.039 | 0.149 | 1 | yes |
| Turbidity, percent of tests greater than 0.3 Nephelometric Units for each month | 0.00% | 0.00% | 0.00% | 5% | yes |

| PESTICIDES, SYNTHETIC ORGANIC CHEMICALS (SOCs) | AKRON WATER | AKRON WATER | AKRON WATER | OHIO EPA | Did Akron water meet EPA limit? |
|---|----------------------|----------------------|----------------------|----------------------|---------------------------------------|
| | AVERAGE LEVEL | MINIMUM LEVEL | MAXIMUM LEVEL | MAXIMUM LIMIT | |
| | MICROGRAMS PER LITER | MICROGRAMS PER LITER | MICROGRAMS PER LITER | MICROGRAMS PER LITER | |
| Alachlor | <0.2 | <0.2 | <0.2 | 2 | yes |
| Atrazine | <0.3 | <0.3 | 0.37 | 3 | yes |
| Simazine | <0.40 | <0.40 | <0.40 | 4 | yes |

| OTHER PARAMETERS | AKRON WATER | AKRON WATER | AKRON WATER | OHIO EPA | Did Akron water meet EPA limit? |
|----------------------------------|----------------------|--|----------------------|-----------------------------------|---------------------------------------|
| | AVERAGE LEVEL | MINIMUM LEVEL | MAXIMUM LEVEL | GUIDELINE LEVEL | |
| | MILLIGRAMS PER LITER | MILLIGRAMS PER LITER | MILLIGRAMS PER LITER | | |
| Alkalinity | 74 | 51 | 99 | no EPA limit | not applicable |
| Hardness in milligrams per liter | 109 | 66 | 152 | no EPA limit | not applicable |
| Hardness in grains per gallon | 6.4 grains/gal. | 3.9 grains/gal. | 8.9 grains/gal. | no EPA limit | not applicable |
| Orthophosphate | 1.044 | 0.496 (29 of 30, 96.7%, greater than 0.6) | 2.070 | 0.6 or more for 90% of samples | yes |
| pH | 7.32 | 7.00 | 8.71 | 7.0-10.5 for 90% of samples | yes |
| Temperature, degrees Celsius | 13.2 | 1.6 | 27.5 | no EPA limit | not applicable |
| Total Organic Carbon | 2.76 | 1.68 | 4.25 | no EPA limit | not applicable |

| VOLATILE ORGANIC CHEMICALS (VOCs) | AKRON WATER | AKRON WATER | AKRON WATER | OHIO EPA | Did Akron |
|--------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------|
| | AVERAGE LEVEL | MINIMUM LEVEL | MAXIMUM LEVEL | MAXIMUM LIMIT | water meet |
| | MICROGRAMS PER LITER | MICROGRAMS PER LITER | MICROGRAMS PER LITER | MICROGRAMS PER LITER | EPA limit? |
| Benzene | <0.5 | <0.5 | <0.5 | 5 | yes |
| Bromobenzene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Bromochloromethane | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Bromodichloromethane | 9.5 | 9.5 | 9.5 | no EPA limit | not applicable |
| Bromoform | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Bromomethane | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| n-Butylbenzene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| sec-Butylbenzene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| tert-Butylbenzene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Carbon Tetrachloride | <0.5 | <0.5 | <0.5 | 5 | yes |
| Chlorobenzene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Chloroethane | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Chloroform | 24.0 | 24.0 | 24.0 | no EPA limit | not applicable |
| Chloromethane | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 2-Chlorotoluene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 4-Chlorotoluene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Dibromochloromethane | 1.6 | 1.6 | 1.6 | no EPA limit | not applicable |
| Dibromomethane | <0.5 | <0.5 | <0.5 | 5 | yes |
| 1,2-Dichlorobenzene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 1,3-Dichlorobenzene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 1,4-Dichlorobenzene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Dichlorodifluoromethane | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 1,1-Dichloroethane | <0.5 | <0.5 | <0.5 | 5 | yes |
| 1,2-Dichloroethane | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 1,1-Dichloroethene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| cis-1,2-Dichloroethene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| trans-1,2-Dichloroethene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Dichloromethane | <0.5 | <0.5 | <0.5 | 5 | yes |
| 1,2-Dichloropropane | <0.5 | <0.5 | <0.5 | 5 | yes |
| 1,3-Dichloropropane | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 2,2-Dichloropropane | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 1,1-Dichloropropene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 1,3-Dichloropropene, Total | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Ethylbenzene | <0.5 | <0.5 | <0.5 | 700 | yes |
| Hexachlorobutadiene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Isopropylbenzene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 4-Isopropyltoluene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Napthalene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| n-Propylbenzene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Styrene | <0.5 | <0.5 | <0.5 | 100 | yes |
| 1,1,1-Trichloroethane | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 1,1,1,2-Tetrachloroethane | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 1,1,2,2-Tetrachloroethane | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Tetrachloroethene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Toluene | <0.5 | <0.5 | <0.5 | 1,000 | yes |
| 1,2,3-Trichlorobenzene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 1,2,4-Trichlorobenzene | <0.5 | <0.5 | <0.5 | 70 | yes |
| 1,1,2-Trichloroethane | <0.5 | <0.5 | <0.5 | 5 | yes |
| Trichloroethene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Trichlorofluoromethane | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 1,2,3-Trichloropropane | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 1,2,4-Trimethylbenzene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| 1,3,5-Trimethylbenzene | <0.5 | <0.5 | <0.5 | no EPA limit | not applicable |
| Vinyl Chloride | <0.5 | <0.5 | <0.5 | 2 | yes |
| Xylenes (total) | <0.5 | <0.5 | <0.5 | 10 | yes |

DEFINITIONS:

"Plant tap" is the sampling point at the water treatment plant after the last treatment process.

A "primary EPA limit" is the maximum level above which adverse health effects may occur.

A "secondary EPA limit" is the maximum limit above which adverse aesthetic (staining, color, odor, taste), non-health related effects may occur.

< is a symbol meaning "less than" the detection limit of the lab instrument, or so low that it is below the detection limit.