

AKRON DRINKING WATER ALL WATER TESTS - 2009

This chart is available on-line at ci.akron.oh.us/PubUtil/pdf/2009allwatertests.pdf

Charts for other years are available at the same internet address by changing the year

INORGANIC CHEMICALS	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	
Antimony	<0.004	<0.004	<0.004	0.006	yes
Arsenic	<0.003	<0.003	<0.003	0.01	yes
Barium	0.041	0.041	0.041	2	yes
Beryllium	<0.001	<0.001	<0.001	0.004	yes
Cadmium	<0.001	<0.001	<0.001	0.005	yes
Chlorine, free residual	2.59	1.75	3.44	0.2 minimum	yes
Chlorine, combined	0.25	0.09	0.46	no EPA limit	not applicable
Chromium	<0.004	<0.004	<0.004	0.1	yes
Copper	<0.010	<0.010	<0.010	1.3	yes
Cyanide	<0.005	<0.005	<0.005	0.2	yes
Fluoride	0.96	0.70	1.22	4.0 primary 2.0 secondary	yes yes
Manganese	0.022	0.010	0.066	0.05 secondary	not applicable
Mercury	<0.0002	<0.0002	<0.0002	0.002	yes
Nickel	<0.004	<0.004	<0.004	0.1	yes
Nitrate	0.40	0.03	0.88	10	yes
Selenium	<0.004	<0.004	<0.004	0.05	yes
Sodium	42.7	42.7	42.7	no EPA limit	not applicable
Thallium	<0.001	<0.001	<0.001	0.002	yes

LEAD & COPPER AT CUSTOMER TAPS	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA MAXIMUM	Did Akron water meet EPA limit?
	90th PERCENTILE LEVEL MICROGRAMS PER LITER	MINIMUM LEVEL MICROGRAMS PER LITER	MAXIMUM LEVEL MICROGRAMS PER LITER	90th PERCENTILE MICROGRAMS PER LITER	
Lead	2.4	<2.0	4.7	Action Level = 15	yes
Copper	140	<10	520	Action Level = 1300	yes

DISINFECTION BYPRODUCTS STAGE 1 MONITORING 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	55.4	53.3	59.1	80	yes
Haloacetic acids, HAA5, running annual average	44.3	37.9	49.6	60	yes

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	0.80	0.00	0.98	no EPA limit	not applicable
Chlorite, average of 3 samples in distribution system	0.577	0.515	0.627	1.0	yes
Chlorate, at plant tap	0.41	0.18	0.71	no EPA limit	not applicable

DISINFECTANT RESIDUALS	AKRON WATER AVERAGE LEVEL MILLIGRAMS PER LITER	AKRON WATER MINIMUM LEVEL MILLIGRAMS PER LITER	AKRON WATER MAXIMUM LEVEL MILLIGRAMS PER LITER	OHIO EPA MAXIMUM LIMIT MILLIGRAMS PER LITER	Did Akron water meet EPA limit?
Free Chlorine, of 2294 distribution samples	1.08	0.02	3.80	no EPA limit	not applicable
Free Chlorine, percent less than 0.2 milligrams per liter for each month, distribution samples	0.4%	0.0%	3.5%	5%	yes
Total Chlorine, running annual average calculated quarterly, distribution samples	1.39	1.31	1.45	4.0	yes
Chlorine Dioxide, plant tap, lowest of 2 consecutive days	0.10	0.00	0.26	0.8	yes
Chlorine Dioxide, closest customer, highest of 3 readings, 6 hrs apart, after a daily plant tap over 1.0 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 AVERAGE LEVEL	AKRON WATER MINIMUM LEVEL	AKRON WATER MAXIMUM LEVEL	OHIO EPA MAXIMUM LIMIT	Did Akron water meet EPA limit?
Coliform positives, percent per month	0.00%	0.00%	0.00%	5%	yes
Repeat coliform positives per month	0	0	0	0	yes

TURBIDITY	AKRON WATER AVERAGE LEVEL TURBIDITY UNITS	AKRON WATER MINIMUM LEVEL TURBIDITY UNITS	AKRON WATER MAXIMUM LEVEL TURBIDITY UNITS	OHIO EPA MAXIMUM LIMIT TURBIDITY UNITS	Did Akron water meet EPA limit?
Turbidity, daily grab sample	0.075	0.047	0.204	1	yes
Turbidity, % of continuous tests greater than 0.3 Turbidity Units for each month	0.008%	0.00%	0.10%	5%	yes

PESTICIDES, INTERMEDIATES, SYNTHETIC ORGANIC CHEMICALS (SOCs)	AKRON WATER AVERAGE LEVEL MICROGRAMS PER LITER	AKRON WATER MINIMUM LEVEL MICROGRAMS PER LITER	AKRON WATER MAXIMUM LEVEL MICROGRAMS PER LITER	OHIO EPA MAXIMUM LIMIT MICROGRAMS PER LITER	Did Akron water meet EPA limit?
Acetochlor	<0.095	<0.095	<0.095	no EPA limit	not applicable
Acetochlor-ESA	<1	<1	<1	no EPA limit	not applicable
Acetochlor-OA	<2	<2	<2	no EPA limit	not applicable
Alachlor	<0.20	<0.20	<0.20	2	yes
Alachlor-ESA	<1	<1	<1	no EPA limit	not applicable
Alachlor-OA	<2	<2	<2	no EPA limit	not applicable
Atrazine	<0.30	<0.30	<0.30	3	yes
Metolachlor	<0.095	<0.095	<0.095	no EPA limit	not applicable
Metolachlor-ESA	<1	<1	<1	no EPA limit	not applicable
Metolachlor-OA	<2	<2	<2	no EPA limit	not applicable
Simazine	<0.40	<0.40	<0.40	4	yes

NITROSAMINES	AKRON WATER AVERAGE LEVEL MILLIGRAMS PER LITER	AKRON WATER MINIMUM LEVEL MILLIGRAMS PER LITER	AKRON WATER MAXIMUM LEVEL MILLIGRAMS PER LITER	OHIO EPA GUIDELINE LEVEL	Did Akron water meet EPA limit?
N-nitrosodiethylamine (NDEA)	<0.005	<0.005	<0.005	no EPA limit	not applicable
N-nitrosodimethylamine (NDMA)	<0.002	<0.002	<0.002	no EPA limit	not applicable
N-dinitrosodi-n-butylamine (NDBA)	<0.004	<0.004	<0.004	no EPA limit	not applicable
N-dinitrosodi-n-propylamine (NDPA)	<0.007	<0.007	<0.007	no EPA limit	not applicable
N-nitrosomethylethylamine (NMEA)	<0.003	<0.003	<0.003	no EPA limit	not applicable
N-nitrosopyrrolidine (NPPYR)	<0.002	<0.002	<0.002	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	<0.50	<0.50	<0.50	5	yes
Bromobenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Bromochloromethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
Bromodichloromethane	5.2	5.2	5.2	no EPA limit	not applicable
Bromoform	<0.5	<0.5	<0.5	no EPA limit	not applicable
Bromomethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
n-Butylbenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
sec-Butylbenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
tert-Butylbenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Carbon Tetrachloride	<0.50	<0.50	<0.50	5	yes
Chlorobenzene (Monochlorobenzene)	<0.50	<0.50	<0.50	100	not applicable
Chloroethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
Chloroform	7.8	7.8	7.8	no EPA limit	not applicable
Chloromethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
2-Chlorotoluene	<0.50	<0.50	<0.50	no EPA limit	not applicable
4-Chlorotoluene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Dibromochloromethane	1.4	1.4	1.4	no EPA limit	not applicable
Dibromomethane	<0.50	<0.50	<0.50	no EPA limit	yes
1,2-Dichlorobenzene, (o-Dichlorobenzene)	<0.50	<0.50	<0.50	600	yes
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,4-Dichlorobenzene, (p-Dichlorobenzene)	<0.50	<0.50	<0.50	75	yes
Dichlorodifluoromethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,1-Dichloroethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,2-Dichloroethane	<0.50	<0.50	<0.50	5	yes
1,1-Dichloroethene (1,1-Dichloroethylene)	<0.50	<0.50	<0.50	7	yes
cis-1,2-Dichloroethene (cis-1,2-Dichloroethylene)	<0.50	<0.50	<0.50	70	yes
trans-1,2-Dichloroethene (trans-1,2-Dichloroethylene)	<0.50	<0.50	<0.50	100	yes
Dichloromethane	<0.50	<0.50	<0.50	5	yes
1,2-Dichloropropane	<0.50	<0.50	<0.50	5	yes
1,3-Dichloropropane	<0.50	<0.50	<0.50	no EPA limit	not applicable
2,2-Dichloropropane	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,1-Dichloropropene	<0.50	<0.50	<0.50	no EPA limit	not applicable
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	no EPA limit	not applicable
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Ethylbenzene	<0.50	<0.50	<0.50	700	yes
Hexachlorobutadiene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Isopropylbenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
4-Isopropyltoluene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Methyl-t-butyl ether	<0.50	<0.50	<0.50	no EPA limit	not applicable
Napthalene	<0.50	<0.50	<0.50	no EPA limit	not applicable
n-Propylbenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Styrene	<0.50	<0.50	<0.50	100	yes
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
Tetrachloroethene (Tetrachloroethylene)	<0.50	<0.50	<0.50	5	yes
Toluene	<0.50	<0.50	<0.50	1,000	yes
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	200	yes
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	70	yes
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	5	yes
Trichloroethene (Trichloroethylene)	<0.50	<0.50	<0.50	5	yes
Trichlorofluoromethane	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	no EPA limit	not applicable
Vinyl Chloride	<0.50	<0.50	<0.50	2	yes
m+p-Xylene + o-Xylene = Xylene	<1.0, <0.5	<1.0, <0.5	<1.0, <0.5	10	yes

SEMIVOLATILES	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	
Dimethoate	<0.098	<0.098	<0.098	no EPA limit	not applicable
1,3-Dinitrobenzene	<0.058	<0.058	<0.058	no EPA limit	not applicable
224455-Hexabromobiphenyl	<0.098	<0.098	<0.098	no EPA limit	not applicable
224455-Hexabromodiphenyl ether	<0.098	<0.098	<0.098	no EPA limit	not applicable
22445-Pentabromodiphenyl ether	<0.098	<0.098	<0.098	no EPA limit	not applicable
22446-Pentabromodiphenyl ether	<0.098	<0.098	<0.098	no EPA limit	not applicable
Hexahydro-1,3,5-trinitro-1,3,5- triazine (RDX)	<0.058	<0.058	<0.058	no EPA limit	not applicable
Terbufos Sulfone	<0.098	<0.098	<0.098	no EPA limit	not applicable
2244-Tetrabromodiphenyl ether	<0.098	<0.098	<0.098	no EPA limit	not applicable
2,4,6-Trinitrotoluene (TNT)	<0.058	<0.058	<0.058	no EPA limit	not applicable

OTHER PARAMETERS	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA	Did Akron water meet EPA limit?
	AVERAGE LEVEL	MINIMUM LEVEL	MAXIMUM LEVEL	GUIDELINE	
	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER	LEVEL	
Alkalinity	83	40	113	no EPA limit	not applicable
Hardness in milligrams per liter	121	54	162	no EPA limit	not applicable
Hardness in grains per gallon	7.1	3.2	9.5	no EPA limit	not applicable
Orthophosphate	0.922	0.521 (31 of 32, 97%, greater than 0.6)	1.350	0.6 or more for 90% of samples	yes
pH	7.31	6.99	7.96	7.0-10.5 for 90% of samples	yes
Total solids in milligrams per liter	186 one sample	NA	NA	500 secondary limit	yes
Temperature, degrees C	13	1	26	no EPA limit	not applicable
Temperature, degrees F	56	35	79	no EPA limit	not applicable
Total Organic Carbon	2.84	2.23	3.48	no EPA limit	not applicable

DEFINITIONS:

"Plant tap" is the sampling point at the water treatment plant after the last treatment process. All samples are taken at the Plant Tap unless otherwise indicated.

A "primary EPA limit" is an enforceable regulation for contaminants to protect the public health.

A "secondary EPA limit" is a non-enforceable guideline regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water.

EPA recommends secondary standards to water systems but does not require systems to comply.

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