



# NEW YORK CITY - 1998 DRINKING WATER SUPPLY AND QUALITY STATEMENT

## Data Tables

### REGULATED CONVENTIONAL PHYSICAL AND CHEMICAL PARAMETERS

PARAMETERS (unit)	DOH	US EPA	CATSKILL-DELAWARE SYSTEM			CROTON SYSTEM			GROUNDWATER SYSTEM			SOURCE OF PARAMETER (IF DETECTED)
	MCL	MCLG	# SAMPLES	RANGE	AVERAGE	# SAMPLES	RANGE	AVERAGE	# SAMPLES	RANGE	AVERAGE	
Alkalinity (mg/L - Calcium Carbonate)	NDL	-	227	3.9 - 19.5	10.7	39	32.5 - 56.1	49.4	413	10.0 - 227.2	66.4	Erosion of natural deposits
Antimony (mg/L)	0.006	0.006	155	ND	ND	36	ND	ND	103	ND	ND	
Arsenic (mg/L)	0.05	-	155	ND	ND	36	ND	ND	103	ND	ND	
Asbestos (million fibers/L - longer than 10 µm) <sup>(1)</sup>	7.0	7	1	ND	ND	-	-	-	-	-	-	
Barium (mg/L)	2.00	2	155	ND	ND	36	ND	ND	103	ND - 0.09	< 0.05	Erosion of natural deposits
Beryllium (mg/L)	0.004	0.004	155	ND	ND	36	ND	ND	103	ND	ND	
Cadmium (mg/L)	0.005	0.005	155	ND	ND	36	ND	ND	104	ND	ND	
Chloride (mg/L)	250.0	-	155	5.6 - 15.1	9.1	36	41.7 - 54.4	48.4	384	8.0 - 144.0	51.5	Erosion of natural deposits
Chromium (mg/L)	0.10	0.1	155	ND	ND	36	ND	ND	103	ND - 0.008	< 0.002	Erosion of natural deposits
<b>Color - entry points (color units)</b>	15 <sup>(2)</sup>	-	920	3 - 15	7	233	<b>5 - 19</b>	9	727	<b>ND - 34</b>	5	Iron and manganese; or organic sources, such as algal growth
Copper (mg/L)	1.3 <sup>(3)</sup>	1.3	233	ND - 0.15	0.01	40	ND - 0.10	< 0.01	368	ND - 0.78	0.07	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Cyanide (mg/L) <sup>(4)</sup>	0.2	0.2	239	ND	ND	36	ND	ND	100	ND - 0.05	< 0.02	Erosion of natural deposits, runoff from fertilizer
Fluoride (mg/L)	2.2	-	9040	ND - 1.31	1.07	841	0.60 - 1.18	1.05	1475	ND - 1.52	1.01	Erosion of natural deposits; water additive which promotes strong teeth; runoff from fertilizer
Gross Alpha particle (pCi/L) <sup>(5)</sup>	15	-	9	ND	ND	3	ND	ND	1	ND	ND	Erosion of natural deposits
Gross Beta particle (pCi/L) <sup>(5)</sup>	50	-	9	ND - 1.0	< 0.7	3	1.2 - 2.1	1.7	1	1.8	1.8	Decay of natural and man-made deposits
Iron (mg/L)	0.3 <sup>(6)</sup>	-	155	0.01 - 0.12	0.04	36	0.03 - 0.11	0.07	335	ND - 3.50	0.22	Erosion of natural deposits
Lead (mg/L)	0.015 <sup>(3)</sup>	0	233	ND - 0.007	< 0.002	40	ND	ND	368	ND - 0.017	< 0.002	Corrosion of household plumbing systems; erosion of natural deposits
Manganese (mg/L)	0.3 <sup>(6)</sup>	-	155	ND - 0.06	0.02	36	0.03 - 0.09	0.05	335	ND - 0.48	0.05	Erosion of natural deposits
Mercury (mg/L)	0.002	0.002	157	ND	ND	36	ND	ND	103	ND	ND	
Nickel (mg/L)	0.1 <sup>(7)</sup>	-	155	ND	ND	36	ND	ND	103	ND	ND	
Nitrate (mg/L nitrogen)	10	10	155	0.09 - 0.39	0.18	36	0.16 - 0.67	0.32	384	ND - 8.85	3.67	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (mg/L nitrogen)	1	1	155	ND	ND	36	ND	ND	233	ND	ND	
pH (pH units)	6.5 to 8.5	-	9043	6.6 - 7.8	-	841	6.8 - 7.6	-	1478	5.8 - 8.3	-	
Selenium (mg/L)	0.05	0.05	155	ND	ND	36	ND	ND	103	ND - 0.003	< 0.002	Erosion of natural deposits
Silver (mg/L)	0.1	-	155	ND	ND	36	ND	ND	103	ND	ND	
Sodium (mg/L)	NDL <sup>(8)</sup>	-	158	5.4 - 9.7	7.0	36	17.9 - 27.5	22.4	156	2.4 - 50.0	25.8	Erosion of natural deposits
Specific Conductance (µmho/cm)	NDL	-	9043	66 - 179	79	841	180 - 332	273	1478	65 - 792	323	
Sulfate (mg/L)	250.0	-	155	5.7 - 10.6	7.4	36	12.1 - 15.2	13.7	384	8.0 - 128.0	41.4	Erosion of natural deposits
Temperature (°F)	NDL	-	9030	37 - 77	56	840	39 - 70	50	1475	39 - 77	60	
Thallium (mg/L)	0.002	0.0005	155	ND	ND	36	ND	ND	103	ND	ND	
Turbidity - entry points (NTU)	5 <sup>(9)</sup>	-	921	0.3 - 1.6	0.6	233	0.4 - 1.5	0.7	727	0.1 - 4.1	0.3	Soil erosion and stream sediments
Turbidity - distribution (NTU)	5 <sup>(10)</sup>	-	8118	0.2 - 4.1	0.6	608	0.3 - 2.2	0.7	1478	0.1 - 4.9	0.5	Soil erosion and stream sediments
Zinc (mg/L)	5	-	155	ND	ND	36	ND	ND	334	ND - 0.50	0.07	Erosion of natural deposits

<sup>(1)</sup> Reported asbestos data was collected in 1993.

<sup>(2)</sup> MCL violation determination: If a sample exceeds 15 color units, a second sample must be collected from the same location within 2 weeks. If the average of the two results exceeds 15 color units, then an MCL violation has occurred. In the Croton system there were 2 color violations on 6/30/98 and 12/21/98. The Groundwater system experienced eleven violations between March and September 1998.

<sup>(3)</sup> Action limit (not an MCL) measured at the tap. Data presented reflect distribution system levels, except Groundwater which is sampled at internal taps. See the separate table for Lead and Copper Rule Sampling.

<sup>(4)</sup> Cyanide was analyzed after distillation from acid, which frees cyanides from compounds that might not be toxic. Cyanide was found in only two samples (from the Groundwater System).

<sup>(5)</sup> Reported radiological data for gross alpha, gross beta, and tritium are for samples collected during 1997.

<sup>(6)</sup> If iron and manganese are present, the total concentration of both should not exceed 0.5 mg/L. Higher levels may be allowed by the State when justified by the supplier of water.

<sup>(7)</sup> USEPA MCL; NYSDOH has not set an MCL for this parameter.

<sup>(8)</sup> Water with >20 mg/L of sodium should not be consumed by people on severely restricted sodium diets. Water with >270 mg/L of sodium should not be consumed by people on moderately restricted sodium diets.

<sup>(9)</sup> MCL is the average of two consecutive days. Data presented are individual sample results.

<sup>(10)</sup> MCL is the monthly average. Data presented are individual sample results.

**UNREGULATED CONVENTIONAL PHYSICAL AND CHEMICAL PARAMETERS**

PARAMETERS (unit)	NYS DOH MCL	CATSKILL-DELAWARE SYSTEM			CROTON SYSTEM			GROUNDWATER SYSTEM			SOURCE OF PARAMETER (IF DETECTED)
		# SAMPLES	RANGE	AVERAGE	# SAMPLES	RANGE	AVERAGE	# SAMPLES	RANGE	AVERAGE	
Aluminum (mg/L)	0.05 - 0.2 <sup>(11)</sup>	155	ND - 0.03	0.01	36	ND - 0.02	< 0.01	72	ND - 0.02	< 0.01	Erosion of natural deposits
Ammonia (mg/L nitrogen)	-	155	ND	ND	36	ND	ND	94	ND - 0.09	< 0.03	Animal waste and fertilizer runoff
Boron (mg/L)	-	155	ND - 0.09	0.04	36	ND - 0.10	0.06	72	0.02 - 0.19	0.08	Erosion of natural deposits
Bromide (mg/L)	-	24	ND	ND	13	ND - 0.02	< 0.02	15	0.10 - 0.14	0.12	Erosion of natural deposits
Calcium (mg/L)	-	235	4.2 - 11.6	5.8	39	14.8 - 24.8	21.4	392	4.6 - 98.1	28.3	Erosion of natural deposits
Carbon dioxide, dissolved (mg/L)	-	12	1.32 - 2.64	1.84	8	3.50 - 11.50	5.29	-	-	-	Present in air
Chemical Oxygen Demand (mg/L O <sub>2</sub> )	-	155	1.2 - 7.8	4.2	36	6.4 - 9.8	8.4	72	ND - 6.1	1.8	
Chlorate (mg/L)	-	8	ND	ND	-	-	-	8	ND - 0.17	0.05	By-product of drinking water chlorination
Chlorine Residual, free (mg/L)	-	9040	0.05 - 2.20	0.81	841	0.08 - 2.20	0.67	1477	0.02 - 1.65	0.73	Water additive for disinfection
Color - distribution system (color units)	-	8111	3 - 40	7	608	3 - 24	9	1478	ND - 40	5	Presence of iron, manganese, and organics in water
Corrosivity (Langelier index)	0 <sup>(11, 12)</sup>	155	-3.01 to -2.13	-2.55	36	-1.47 to -1.18	-1.32	124	-3.25 to 0.94	-1.21	
Dissolved Oxygen (mg/L)	-	12	5.8 - 12.8	10.0	8	3.5 - 12.1	7.8	-	-	-	
Foaming Agents (mg/L linear alkyl sulfonate)	0.5 <sup>(11)</sup>	155	ND	ND	36	ND	ND	95	ND	ND	
Hardness (grains/gallon [US] CaCO <sub>3</sub> ) <sup>(13)</sup>	-	155	0.6 - 1.7	1.1	36	4.6 - 5.1	4.9	415	1.1 - 24.7	7.8	Erosion of natural deposits
Iodide (mg/L)	-	155	ND	ND	36	ND	ND	72	ND	ND	
Lithium (mg/L)	-	155	ND	ND	36	ND	ND	72	ND	ND	
Magnesium (mg/L)	-	155	0.99 - 2.40	1.34	36	6.5 - 8.80	7.64	72	2.00 - 40.50	14.32	Erosion of natural deposits
Phenols (mg/L phenol)	-	143	ND	ND	32	ND	ND	66	ND	ND	
Phosphate, Ortho- (mg/L)	-	9040	0.18 - 3.30	1.74	841	0.56 - 2.40	1.26	1477	0.65 - 3.30	1.50	Water additive for corrosion control
Phosphate, Total (mg/L)	-	155	0.10 - 3.25	1.51	36	0.63 - 1.88	1.08	124	0.36 - 5.20	1.83	
Potassium (mg/L)	-	155	0.37 - 3.50	0.70	36	1.60 - 2.40	1.92	72	0.66 - 4.80	2.00	Erosion of natural deposits
Silica [silicon oxide] (mg/L)	-	155	1.9 - 5.3	2.5	36	3.7 - 5.7	4.7	263	2.5 - 28.9	16.6	Erosion of natural deposits
Strontium (mg/L)	-	155	ND	ND	36	ND	ND	72	ND - 0.12	< 0.05	Erosion of natural deposits
Total Dissolved Solids (mg/L)	500 <sup>(11)</sup>	155	25 - 76	46	36	130 - 183	161	145	33 - 610	248	Metals and salts naturally occurring in the soil; organic matter
Total Organic Carbon (mg/L carbon)	-	155	1.2 - 2.1	1.5	36	2.2 - 3.5	2.6	72	ND - 2.0	0.4	Organic matter naturally present in the environment
Total Organic Halogen (mg/L)	-	155	0.07 - 0.23	0.16	36	0.19 - 0.33	0.25	72	ND - 0.21	0.03	By-product of drinking water chlorination
Tritium ( <sup>3</sup> H) - radiological (pCi/L) <sup>(5)</sup>	20000	9	ND	ND	3	ND	ND	1	ND	ND	Artificial radioisotope
UV 254 Absorbency (abs unit)	-	155	0.018 - 0.037	0.027	36	0.050 - 0.058	0.054	72	0.002 - 0.041	0.012	Organic matter naturally present in the environment

<sup>(11)</sup> USEPA Secondary MCL; NYSDOH has not set an MCL for this parameter.

<sup>(12)</sup> A Langelier Index of less than zero indicates corrosive tendencies.

<sup>(13)</sup> Hardness of up to 3 grains per gallon is considered soft water; between 3 and 9 is moderately hard water.

**SPECIFIED ORGANIC CHEMICALS**

PARAMETERS (mg/L)	NYS DOH	US EPA	CATSKILL-DELAWARE SYSTEM			CROTON SYSTEM			GROUNDWATER SYSTEM			SOURCE OF PARAMETER (IF DETECTED)
	MCL	MCLG	# SAMPLES	RANGE	AVERAGE	# SAMPLES	RANGE	AVERAGE	# SAMPLES	RANGE	AVERAGE	
Alachlor	0.002	0	4	ND	ND	6	ND	ND	45	ND	ND	
Aldicarb (Temik)	0.003	-	32	ND	ND	10	ND	ND	72	ND	ND	
Aldicarb sulfone	0.002	-	32	ND	ND	10	ND	ND	72	ND	ND	
Aldicarb sulfoxide	0.004	-	32	ND	ND	10	ND	ND	72	ND	ND	
Aldrin	0.005	-	4	ND	ND	1	ND	ND	38	ND	ND	
Atrazine	0.003	0.003	4	ND	ND	6	ND	ND	45	ND - 0.0002*	ND	Runoff from herbicide used on row crops
Benzo(a)pyrene	0.0002	0	4	ND	ND	6	ND	ND	45	ND	ND	
Butachlor	0.05	-	4	ND	ND	6	ND	ND	45	ND	ND	
Carbaryl	0.05	-	32	ND	ND	10	ND	ND	72	ND	ND	
Carbofuran (Furadan)	0.04	0.04	32	ND	ND	10	ND	ND	72	ND	ND	
Chlordane	0.002	0	4	ND	ND	1	ND	ND	45	ND	ND	
2,4-D	0.05	0.07	4	ND	ND	1	ND	ND	50	ND	ND	
Dalapon	0.2	0.2	4	ND	ND	1	ND	ND	50	ND	ND	
1,2-Dibromo-3-chloropropane	0.0002	0	109	ND	ND	33	ND	ND	109	ND	ND	
Dicamba	0.05	-	4	ND	ND	1	ND	ND	50	ND	ND	
Dieldrin	0.005	-	4	ND	ND	1	ND	ND	42	ND - 0.00004*	ND	Runoff from pesticide use
Di(2-ethylhexyl) adipate	0.4	-	4	ND	ND	6	ND	ND	45	ND	ND	
Di(2-ethylhexyl) phthalate	0.006	0	4	ND	ND	6	ND	ND	45	ND - 0.001	< 0.0006	Plasticizer in flexible plastics
Dinoseb	0.007	0.007	4	ND	ND	1	ND	ND	47	ND	ND	
Diquat	0.02	0.02	31	ND	ND	11	ND	ND	79	ND	ND	
Endothall	0.1	0.1	4	ND	ND	1	ND	ND	45	ND	ND	
Endrin	0.002	0.002	4	ND	ND	1	ND	ND	42	ND	ND	
Ethylene dibromide (EDB)	0.00005	0	109	ND	ND	33	ND - 0.0001 <sup>§</sup>	ND	109	ND	ND	Runoff from fungicide use
Glyphosate	0.7	0.7	4	ND	ND	1	ND	ND	45	ND	ND	
Heptachlor	0.0004	0	4	ND	ND	1	ND	ND	38	ND	ND	
Heptachlor epoxide	0.0002	0	4	ND	ND	1	ND	ND	41	ND - 0.00001	< 0.00001	Breakdown of heptachlor, runoff of pesticide
Hexachlorobenzene	0.001	0	4	ND	ND	6	ND	ND	45	ND	ND	
Hexachlorocyclopentadiene	0.05	0.05	4	ND	ND	6	ND	ND	45	ND	ND	
3-Hydroxycarbofuran	0.05	-	32	ND	ND	10	ND	ND	72	ND	ND	
Lindane	0.0002	0.0002	4	ND	ND	1	ND	ND	41	ND	ND	
Methomyl	0.05	-	32	ND	ND	10	ND	ND	72	ND	ND	
Methoxychlor	0.04	0.04	4	ND	ND	6	ND	ND	45	ND	ND	
Metolachlor	0.05	-	4	ND	ND	6	ND	ND	45	ND	ND	
Metribuzin	0.05	-	4	ND	ND	6	ND	ND	45	ND	ND	
Oxamyl (Vydate)	0.2	0.2	32	ND	ND	10	ND	ND	72	ND	ND	
Pentachlorophenol	0.001	0	4	ND	ND	1	ND	ND	50	ND	ND	
Picloram	0.5	0.5	4	ND	ND	1	ND	ND	50	ND	ND	
Polychlorobiphenyls [PCB]	0.0005 <sup>(14)</sup>	0	4	ND	ND	1	ND	ND	42	ND	ND	
Propachlor	0.05	-	4	ND	ND	6	ND	ND	45	ND	ND	
Simazine	0.004	0.004	4	ND	ND	6	ND - 0.00005*	ND	45	ND	ND	Runoff from herbicide use
Toxaphene	0.003	0	4	ND	ND	1	ND	ND	45	ND	ND	
2,4,5-TP (Silvex)	0.01	0.05	4	ND	ND	1	ND	ND	50	ND	ND	
Vinyl chloride	0.002	0	164	ND	ND	41	ND	ND	103	ND	ND	

\* The contaminant was detected in only one sample. The level found was below the MCL.

§ The contaminant was detected in only one sample. The initial sample was above the MCL, but the repeat was ND. Therefore no MCL exceedance occurred.

<sup>(14)</sup> MCL is for total PCB measured as decachlorobiphenyl.

**REGULATED ORGANIC CONTAMINANTS**

Principal Organic Contaminants have an MCL of 0.005 mg/l. In total 164 samples were collected in the Catskill/Delaware system, 41 in the Croton system, and 102 in the groundwater system.

**Principle Organic Contaminants not detected:**  
Benzene, Bromobenzene, Bromochloromethane, Bromomethane, sec Butylbenzene, tert-Butylbenzene, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloromethane, 2-Chlorotoluene, 4-Chlorotoluene, Dibromomethane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,1-Dichloroethane, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, 1,2-Dichloropropane, 1,3-Dichloropropane, 2,2 Dichloropropane, 1,1-Dichloropropene, cis-1,3-Dichloropropene, trans-1,3 Dichloropropene, Ethylbenzene, Hexachlorobutadiene, Isopropylbenzene, p-Isopropyltoluene, n-Propylbenzene, Styrene, 1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, Toluene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethene, Trichlorofluoromethane, 1,2,3-Trichloropropane, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, m-Xylene, o-Xylene, p-Xylene

PARAMETERS (mg/L)	NYS DOH	USE EPA	CATSKILL-DELAWARE SYSTEM			CROTONSYSTEM			GROUNDWATERSYSTEM			SOURCE OF PARAMETER (IF DETECTED)
	MCL	MCLG	# SAMPLES	RANGE	AVERAGE	# SAMPLES	RANGE	AVERAGE	# SAMPLES	RANGE	AVERAGE	
<b>Principle Organic Contaminants detected at levels below the MCL</b>												
n-Butylbenzene	0.005	-	164	ND	ND	41	ND	ND	102	ND - 0.0022*	ND	Residue of gasoline
Dichlorodifluoromethane	0.005	-	164	ND	ND	41	ND	ND	102	ND - 0.002	< 0.0005	Leaching from refrigerators and air conditioners
Methylene chloride	0.005	0	164	ND - 0.0008*	ND	41	ND	ND	102	ND - 0.0011*	ND	Discharge from dry cleaners
Tetrachloroethylene	0.005	0	164	ND	ND	41	ND	ND	102	ND - 0.011 <sup>(15)</sup>	0.001	Discharge from dry cleaners
1,2,3-Trichlorobenzene	0.005	-	164	ND	ND	41	ND	ND	102	ND - 0.0014*	ND	Runoff from pesticide
1,2,4-Trichlorobenzene	0.005	0.07	164	ND	ND	41	ND	ND	102	ND - 0.0013*	ND	Runoff from pesticide
<b>Disinfection By-Products</b>												
Total Trihalomethanes <sup>(16)</sup>	0.10	-	164	0.008 - 0.080	0.031	41	0.035 -	0.045	102	ND - 0.021	0.004	By-product of drinking water chlorination

\* The contaminant was detected in only one sample. The level found was below the MCL.

<sup>(15)</sup> Though an individual sample result exceeded 0.005 mg/L, no MCL violation occurred in 1998. Determination of MCL violation: If a sample exceeds the MCL, one to three more samples must be collected from the same sampling point within 30 days. If at least one of the confirming samples is positive and the average of the initial and all confirming samples exceeds the MCL, then an MCL violation has occurred.

<sup>(16)</sup> MCL is the calculated quarterly running average. In 1998 the MCL was never exceeded. Data presented are based on individual sample results.

**UNSPECIFIED ORGANIC CHEMICALS (Revised February 2000)**

**Unspecified Organic Chemicals not detected:**  
Acenaphthene, Acenaphthylene, Acetochlor, Acifluorfen, Anthracene, Betazon, Benzo[a]anthracene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Benzo[g,h,i]perylene, a-BHC, b-BHC, d-BHC, g-BHC, Bromoil, Butylbenzylphthalate, Caffeine, Carboxin, a-Chlordane, g-Chlordane, Chlorobenzilate, Chloroneb, Chlorothalonil (Draconil, Bravo), Chrysene, Cyanazine, 2,4-DB, p,p'DDD, p,p'DDE, p,p'DDT, Diazinon, Dibenz[a,h]anthracene, 3,5-Dichlorobenzoic acid, Dichlorprop, Dimethoate, Dimethylphthalate, 2,4-Dinitrotoluene, Di-N-octylphthalate, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin aldehyde, Etridiazole, EPTC, Fluoranthene, Fluorene, Indeno[1,2,3-cd] pyrene, Malathion, Methiocarb, MGK - 264, Molinate, Naphthalene, 4-Nitrophenol, trans-Nonachlor, Norflurazon, Paraquat, Parathion, Permethrin, Phenanthrene, Prometryn, Propoxur (Baygon), Pyrene, 2,4,5-T, Terbacil, Terbufos, Tetrachloroterephthalic acid, Thiobencarb, Trifluralin, Vernolate

PARAMETERS (mg/L)	DOH MCL	CATSKILL-DELAWARE SYSTEM			CROTONSYSTEM			GROUNDWATERSYSTEM			SOURCE OF PARAMETER (IF DETECTED)
		# SAMPLES	RANGE	AVERAGE	# SAMPLES	RANGE	AVERAGE	# SAMPLES	RANGE	AVERAGE	
<b>Disinfection By-Products detected</b>											
Bromoacetic acid	0.05	105	ND - 0.002	< 0.00016	20	ND - 0.0002	< 0.00016	41	ND - 0.002	0.0002	By-product of drinking water chlorination
Bromochloroacetic acid	0.05	105	0.0006 - 0.0025	0.0014	20	0.0007 - 0.0018	0.0013	41	ND - 0.002	0.0006	By-product of drinking water chlorination
Bromochloroacetoneitrile	0.05	78	ND - 0.0006	0.0003	20	0.0007 - 0.0014	0.001	44	ND - 0.0009	0.0002	By-product of drinking water chlorination
Chloral Hydrate	0.05	80	0.001 - 0.016	0.006	18	0.003 - 0.009	0.0058	50	ND - 0.014	0.0008	By-product of drinking water chlorination
Chloroacetic acid	0.05	105	ND - 0.003	0.001	20	ND - 0.003	0.002	41	ND - 0.001	< 0.00022	By-product of drinking water chlorination
Chloropicrin	0.05	112	ND - 0.0009	0.0006	24	0.0003 - 0.0009	0.0005	54	ND - 0.0003	< 0.00010	By-product of drinking water chlorination
Dibromoacetic acid	0.05	105	ND - 0.0009	< 0.00010	20	ND - 0.002	0.0002	41	ND - 0.002	0.0007	By-product of drinking water chlorination
Dibromoacetoneitrile	0.05	77	ND - 0.0006	< 0.00010	20	ND - 0.0006	0.0002	45	ND - 0.0024	0.0007	By-product of drinking water chlorination
Dichloroacetic acid	0.05	105	0.009 - 0.037	0.018	20	0.007 - 0.021	0.013	41	ND - 0.011	0.0015	By-product of drinking water chlorination
Dichloroacetoneitrile	0.05	99	0.001 - 0.004	0.003	27	0.0005 - 0.009	0.005	53	ND - 0.0014	0.0002	By-product of drinking water chlorination
1,1-Dichloropropanone	0.05	85	0.0002 - 0.001	0.0005	27	0.0005 - 0.0024	0.001	51	ND - 0.0003	< 0.00010	By-product of drinking water chlorination
Trichloroacetic acid	0.05	105	0.008-0.050	0.002	20	0.027 - 0.043	0.035	41	ND - 0.015	0.002	By-product of drinking water chlorination
Trichloroacetoneitrile	0.05	91	ND - 0.0002	< 0.00010	27	ND - 0.0005	< 0.00010	49	ND	ND	By-product of drinking water chlorination
1,1,1-Trichloropropanone	0.05	93	0.001 - 0.005	0.003	27	0.0003 - 0.0095	0.0038	54	ND - 0.0016	0.0002	By-product of drinking water chlorination
<b>Unspecified Organic Chemicals detected</b>											
DCPA (Dacthal)	0.005	4	ND	ND	1	ND	ND	25	ND - 0.0041	0.0003	Runoff from pesticide use
Di-n-Butylphthalate	0.005	4	ND	ND	6	ND	ND	45	ND - 0.0007	< 0.00050	Plasticizer from flexible plastics
Diethylphthalate	0.005	4	ND	ND	6	ND	ND	45	ND - 0.004	0.0006	Plasticizer from flexible plastics
Isophorone	0.05	4	ND	ND	6	ND	ND	45	ND - 0.0007*	ND	Runoff from pesticide use, solvent in paints
Methyl tert-butyl ether (MTBE)	0.05	164	ND - 0.005	< 0.0005	41	ND - 0.0006	< 0.0005	102	ND - 0.062 <sup>(17)</sup>	0.0035	Additive to gasoline in the winter

\* The contaminant was detected in only one sample. The level found was below the MCL.

<sup>(17)</sup> Though an individual sample result exceeded 0.05 mg/L in the Groundwater System, no MCL violation occurred in 1998. Determination of MCL violation: If a sample exceeds the MCL, one to three more samples must be collected from the same sampling point within 30 days. If at least one of the confirming samples is positive and the average of the initial and all confirming samples exceeds the MCL, then an MCL violation has occurred.

## LEAD AND COPPER RULE SAMPLING AT RESIDENTIAL WATER TAPS

PARAMETERS (mg/L)	NYS DOH MCL	US EPA MCLG	90th PERCENTILE VALUES	# SITES EXCEEDING ACTION LEVEL	SOURCE
Copper	AL= 1.3	1.3	0.179	All sample results were below the Action Level	Corrosion of household plumbing systems
<b>Lead</b>	<b>AL = 0.015</b>	<b>0</b>	<b>0.016</b>	<b>12 of 107 samples (more than 10 %) collected between July and December 1998 exceeded the Action Level of 0.015 mg/L</b>	<b>Corrosion of household plumbing systems</b>

## MICROBIAL PARAMETERS

PARAMETERS (units)	NYS DOH MCL	US EPA MCLG	# SAMPLES	RANGE	AVERAGE	SOURCE
Total Coliform Bacteria (% of samples positive/month)	5%	0	11350	ND - 0.5%	0.23%	Naturally present in the environment
<i>E. coli</i> (CFU/ml)	<sup>(18)</sup>	0	11350	0 - 1*	0	Human and animal fecal waste
Heterotrophic Plate Count (CFU/ml)	TT	-	11184	ND - 500	1	Naturally present in the environment

\* Only one sample with one colony was detected.

<sup>(18)</sup> If a sample and its repeat sample are both positive for coliform bacteria and one of the two samples is positive for *E. coli*, then the MCL is exceeded.

AL = Action Level: The concentration of a contaminant, which if exceeded, triggers treatment or other requirements which a water system must follow.

An exceedence occurs if more than 10% of the samples exceed the Action Level.

MCL = Maximum Contaminant Level: the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology

MCLG = Maximum Contaminant Level Goal: the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety

mg/L = milligrams per liter

ND = Non-Detect

NDL = No Designated Limit

TT = Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water

**Parameters with highlighted and bolded values indicate a violation**



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