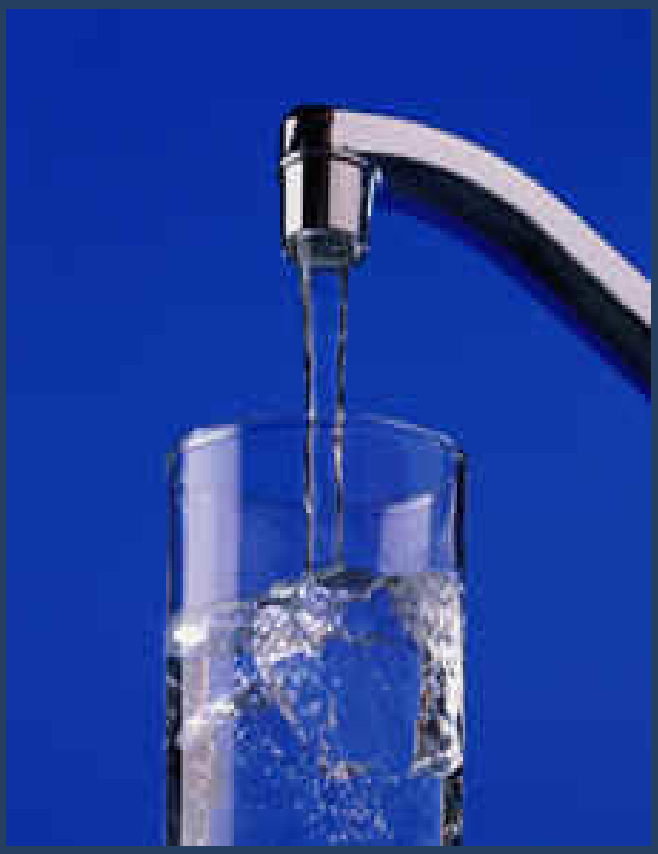
CITY OF RALEIGH

2016 FINISHED WATER QUALITY REPORT

-Summarizing 2016 Finished Water Quality Test Results



City of Raleigh

Finished Water Quality Data for 2016

In the following pages, you will find an overview of the required and voluntary water testing analysis that protects our drinking water system. In order to ensure that your tap water is safe to drink, the Environmental Protection Agency prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

City of Raleigh
North Carolina

2016 Annual Finished Water Quality Report
Tests of Finished Water From the EM Johnson Water Treatment Facility

The City of Raleigh consistently provides a reliable supply of high quality drinking water that surpasses all State and Federal drinking water quality requirements. The following tables represents levels of regulated and unregulated water quality parameters sampled in 2016. The water quality test results indicate that your drinking water complies with all of the EPA's drinking water standards in 2016. If you have any questions regarding this report, please contact the City of Raleigh Drinking Water Laboratory at (919)996-2870.

Microbiologicals

Contaminant	Your water	MCL	Sources of Contaminant
Cryptosporidium, Oocysts/L (*12/19/16)*	0	NA	*Human and animal fecal waste*
Giardia, cyst/L (*12/19/16)*	0	NA	*Human and animal fecal waste*
Heterotrophic Plate Count, MPN/ml , (AVG) *Distribution*	32	NA	*HPC measures a range of baceria that are naturally present in the environment*
Total Coliform (240 samples per month), *Distribution*	0.83% were positive	NA	*Coliforms are naturally present in the environment*
E Coli (240 samples per month), *Distribution*	0% were positive	(Note: If either an original routine sample and/or its repeat samples are *E coli* positive, a Tier 1 violation exists	*Human and animal fecal waste*
Viruses* (12/28/16)	Negative	NA	*Human and animal fecal waste*

**Viruses include Adenovirus, Astrovirus, Rotavirus and Panternterovirus*

Disinfectants and Disinfection Byproducts

Contaminant	Your water	MCL	Sources of Contaminant
Bromate, mg/l	<0.005	0.01	*Byproduct of drinking water disinfection*
Haloacetic Acids (HAA5), ppb	21.5	60	*Byproduct of drinking water disinfection*
Total Trihalomethanes (TTHMs), ppb	22.9	80	*Byproduct of drinking water disinfection*
Total Organic Carbon, ppm	2.26	na	*Naturally present in the environment*
Chloramines, ppm	2.70	MRDL = 4	*Water additive used to control microbes*

Lead and Copper: Sample Date 2016

Contaminant	Your water	MCL	Sources of Contaminant
Copper (ppm) (90th percentile)	0.04	AL = 1.3	*Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives*
Lead (ppb) (90th percentile)	<3	AL = 15	*Corrosion of household plumbing systems, erosionof natural deposits*

Asbestos

Contaminant	Your water	MCL	Sources of Contaminant
Total Asbestos (MF/L)	<0.2	7	*Decay of asbestos cement water mains; erosion of natural deposits*

Turbidity (Combined Filter Effluent Turbidity Values)

Contaminant	Your water	MCL	Sources of Contaminant
Turbidity, NTU (Average)	0.06	TT = 1 NTU	*Soil runoff*

Nitrate and Nitrite

Contaminant	Your water	MCL	Sources of Contaminant
Nitrate, ppm	<1.0	10	*Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits*
Nitrite, ppm	<0.1	1	*Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits*

Minerals

Contaminant	Your water	MCL
Calcium, mg/l	5.93	N/A
Sodium, mg/l	27.8	N/A
Magnesium, mg/l	2.56	N/A
Potassium, mg/l	2.29	N/A

Inorganic Chemicals

Contaminant	Your water	MCL	Sources of Contaminant
Antimony, mg/l	<0.001	0.006	*Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder*
Arsenic, mg/l	<0.005	0.01	*Erosion of natrual deposits; runoff from orchards, runoff from glass & electronic production wastes*
Barium, mg/l	<0.400	2	*Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits*
Beryllium, mg/l	<0.002	0.004	*Discharge from metal refineries and coal-buring factories; discharge from electrical, aerospace, and defense industries*
Cadmium, mg/l	<0.001	0.005	*Corrosion of galvanized pipes; erosion of natural depositis; discharge from metal refineries; runoff from waste batteries and paints*
Chromium (Total), mg/l	<0.020	0.1	*Discharge from steel and pulp mills; erosion of natural deposits*
Chromium 6 (Hexavalent Chromium), mg/l	0.00006	NA	*Commonly discharged from steel and pulp mills as well as metal plating and leather tanning facilities*
Cyanide, mg/l	<0.050	0.2	*Discharge from steel/metal factories; discharge from plastic and fertilizer factories*
Fluoride, mg/l	0.73	4	*Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories*
Mercury, mg/l	<0.0004	0.002	*Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and croplands*
Selenium, mg/l	<0.010	0.05	*Discharge from petroleum refineries; erosion of natural deposits; discharge from mines*
Thallium, mg/l	<0.001	0.002	*Leaching from ore-processing sites; discharge from electronics, glass and drug factories*

Volatile Organic Chemicals (VOCs)

Contaminant	Your water	MCL	Sources of Contaminant
Benzene, mg/l	<0.0005	0.005	*Discharge from factories; leaching from gas storage tanks and landfills*
Carbon Tetrachloride, mg/l	<0.0005	0.005	*Discharge from chemical plants and other industrial activities*
Chlorobenzene, mg/l	<0.0005	0.1	*Discharge from chemical and agricultural chemical factories*
o-Dichlorobenzene, mg/l	<0.0005	0.6	*Discharge from industrial chemical factories*
p-Dichlorobenzene, mg/l	<0.0005	0.075	*Discharge from industrial chemical factories*
1,2-Dichloroethane, mg/l	<0.0005	0.005	*Discharge from industrial chemical factories*
1,1-Dichloroethylene, mg/l	<0.0005	0.007	*Discharge from industrial chemical factories*
cis-1,2-Dichloroethylene, mg/l	<0.0005	0.07	*Discharge from industrial chemical factories*
trans-1,2-Dichloroethylene, mg/l	<0.0005	0.1	*Discharge from industrial chemical factories*
Dichloromethane, mg/l	<0.0005	0.005	*Discharge from industrial chemical factories*
1,2-Dichloropropane, mg/l	<0.0005	0.005	*Discharge from industrial chemical factories*
Ethylbenzene, mg/l	<0.0005	0.7	*Discharge from petroleum refineries*
Styrene, mg/l	<0.0005	0.1	*Discharge from rubber and plastic factories; leaching from landfills*
Tetrachloroethylene, mg/l	<0.0005	0.005	*Discharge from factories and dry cleaners*
Toluene, mg/l	<0.0005	1	*Discharge from petroleum factories*
1,2,4-Trichlorobenzene, mg/l	<0.0005	0.07	*Discharge from textile finishing factories*
1,1,1-Trichoroethane, mg/l	<0.0005	0.2	*Discharge from metal degreasing sites and other factories*
1,1,2-Trichloroethane, mg/l	<0.0005	0.005	*Discharge from industrial chemical factories*
Trichloroethylene, mg/l	<0.0005	0.005	*Discharge from metal degreasing sites and other factories*
Vinyl chloride, mg/l	<0.0005	0.002	*Leaching from PVC pipes; discharge from plastic factories*
Xylenes (Total), mg/l	<0.0005	10	*Discharge from petroleum factories; discharge from chemical factories*

Synthetic Organic Chemicals (SOCs) Contaminants Including Pesticides and Herbicides

Contaminant	Your water	MCL	Sources of Contaminant
Alachlor, mg/l	<0.0002	0.002	*Runoff from herbicide used on row crops*
Atrazine, mg/l	<0.0001	0.003	*Runoff from herbicide used on row crops*
Benzo(a)pyrene, mg/l	<0.00002	0.0002	*Leaching from linings of water storage tanks and distribution lines*
Carbofuran, mg/l	<0.0009	0.04	*Leaching of soil fumigant used on rice and alfalfa*
Chlordane, mg/l	<0.0002	0.002	*Residue of banned termiticide*
2,4-D, mg/l	<0.0001	0.07	*Runoff from herbicide used on row crops*
Dalapon, mg/l	<0.001	0.2	*Runoff from herbicide used on row crops*
Dibromochloropropane	<0.00002	0.0002	*Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples and orchards*
Di(2-ethylhexyl)adipate, mg/l	<0.0006	0.4	*Discharge from chemical factories*
Di(2-ethylhexyl)phthalate, mg/l	<0.00132	0.006	*Discharge from rubber and chemical factories*

Synthetic Organic Chemical (SOC) Contaminants Including Pesticides and Herbicides ~cont

Contaminant	Your water	MCL	Sources of Contaminant
Dinoseb, mg/l	<0.0002	0.007	*Runoff from herbicide used on soybeans and vegetables*
Endrin, mg/l	<0.00001	0.002	*Residue of banned insecticide*
Ethylene dibromide, mg/l	<0.00001	0.00005	*Discharge from petroleum refineries*
Heptachlor, mg/l	<0.00004	0.0004	*Residue of banned termiticide*
Heptachlor epoxide, mg/l	<0.00002	0.0002	*Breakdown of heptachor*
Hexachlorobenzene, mg/l	<0.0001	0.001	*Discharge from metal refineries and agricultural chemical factories*
Hexachlorocyclopentadiene, mg/l	<0.0001	0.05	*Discharge from chemical factories*
Lindane, mg/l	<0.00002	0.0002	*Runoff/leaching from insecticide used on cattle, lumber, gardens*
Methoxychlor, mg/l	<0.0001	0.04	*Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock*
Oxamyl (Vydate), mg/l	<0.002	0.2	*Runoff/leaching from insecticide used on apples, potatoes, and tomatoes*
PCBs (Polychlorinated Biphenyls), mg/l	<0.001	0.0005	*Runoff from landfills; discharge of waste chemicals*
Pentachlorophenol, mg/l	<0.00004	0.001	*Runoff from landfills; discharge of waste chemicals*
Picloram, mg/l	<0.0001	0.5	*Herbicide runoff*
Simazine, mg/l	<0.00007	0.004	*Herbicide runoff*
Toxaphene, mg/l	<0.001	0.003	*Runoff/leaching from insecticide used on cotton and cattle*
2,4,5-TP (Silvex), mg/l	<0.0002	0.05	*Residue of banned herbicide*

Radionuclides

Contaminant	Your water	MCL	Sources of Contaminant
Alpha emitters, pCi/L	<3	15	*Erosion of natural deposits*
Beta photon emitters, pCi/L	4.2	50	*Decay of natural and man made deposits*
Combined radium (pCi/L)	1.46	5	*Erosion of natural deposits*
Uranium, pCi/L	<1	20.1	*Erosion of natural deposits*
Radon, pCi/L	<100	300	*naturally occuring gas formed from uranium decay; can be released in the air as it leaves the faucet*

Water Quality Characteristics

Contaminant	Your water	MCL
Alkalinity, mg/l as CaCO3	29.1	NA
Aluminum, mg/l	<0.01	0.2
Total Ammonia, mg/l	0.48	NA
Carbon Dioxide, mg/l	0.25	NA
Chloride, mg/l	14.0	250
Color, CU	1.17	15
Conductivity, uS/cm	231	NA
Dissolved Oxygen, mg/l	11.3	NA

Water Quality Characteristics ~cont

Contaminant	Your water	MCL
Hardness, Total, mg/l as CaCO3	25.4	Classified as "Soft"
Hardness, Total, grains per gallon	1.49	Classified as "Soft"
Iron, mg/l	<0.06	0.3
Manganese, mg/l	<0.01	0.05
Nickel, mg/l	<0.100	NA
Odor, TON	0.07	3
pH, SU	8.38	6.5 to 8.5
Silica, mg/l	7.17	NA
Sulfate, mg/l	52.6	250
Temperature, °C	19.9	NA
Total Dissolved Solids, mg/l	155	500
UV 254, mg/l	0.04	NA
Zinc, mg/l	<0.01	5

Unregulated Contaminants

Contaminant	Your water	MCL
Perchlorate, mg/l	<0.00005	NA
N-Nitrosodimethylamine (NDMA), ng/l	<2.0	NA
Acetaldehyde, ug/l	<5.0	NA
Benzaldehyde, ug/l	<5.0	NA
Butanal, ug/l	<5.0	NA
Crotonaldehyde, ug/l	<5.0	NA
Cyclohexanone, ug/l	<5.0	NA
Decanal, ug/l	<5.0	NA
Formaldehyde, ug/l	21	NA
Glyoxal, ug/l	<5.0	NA
Heptanal, ug/l	<5.0	NA
Hexanal, ug/l	<5.0	NA
Methyl glyoxal, ug/l	<5.0	NA
Nonanal, ug/l	<5.0	NA
Octanal, ug/l	<5.0	NA
Pentanal, ug/l	<5.0	NA
Propanal, ug/l	<5.0	NA

Treatment Process Information

Chemical	*Typical Dosage Range*	*Purpose of Treatment*
Ozone, ppm	1 - 3	Oxidant
Sodium Permanganate, ppm	1 - 4	Pre Oxidant
Ferric Sulfate, ppm	50 - 90	Coagulant
Polymer, ppm	0.05 - 0.10	Coagulant Aid
Sodium Hydroxide, ppm	15 - 35	pH Control
Carbon, ppm	1 - 5	Taste and Odor and organics removal
Silicate, ppm	1.5 - 13	Corrosion control
Hydrofluorosilicic Acid, ppm	0.7 - 1	Fluoride Additive
Chlorine, ppm	6 - 7	Disinfectant
Ammonia, ppm	3.8:1 Cl2:NH3 Ratio	Disinfectant when use in conjuction with chlorine to form chloramines
Filter Aid Polymer, ppm	0.08 - 0.12	Enhanced Filtration

City of Raleigh
North Carolina

2016 Annual Finished Water Quality Report
Tests of Finished Water From the DE Benton Water Treatment Facility

The City of Raleigh consistently provides a reliable supply of high quality drinking water that surpasses all State and Federal drinking water quality requirements. The following tables represents levels of regulated and unregulated water quality parameters sampled in 2016. The water quality test results indicate that your drinking water complies with all of the EPA's drinking water standards in 2016. If you have any questions regarding this report, please contact the City of Raleigh Drinking Water Laboratory at (919)996-2870.

Microbiologicals

Contaminant	Your water	MCL	Sources of Contaminant
Cryptosporidium, Oocysts/L *(12/20/2016)*	0	NA	*Human and animal fecal waste*
Giardia, cyst/L *(12/20/2016)*	0	NA	*Human and animal fecal waste*
Viruses* *(12/29/2016)*	Negative	NA	*Human and animal fecal waste*

**Viruses include Adenovirus, Astrovirus, Rotavirus and Panternterovirus*

Disinfection Byproducts

Contaminant	Your water	MCL	Sources of Contaminant
Bromate, mg/l	<0.005	0.01	*Byproduct of drinking water disinfection*
Haloacetic Acids (HAA5), ppb	10.1	60	*Byproduct of drinking water disinfection*
Total Trihalomethanes (TTHMs), ppb	18.9	80	*Byproduct of drinking water disinfection*
Total Organic Carbon, ppm	1.62	NA	*Naturally present in the environment*

Asbestos

Contaminant	Your water	MCL	Sources of Contaminant
Total Asbestos (MF/L)	<0.2	7	*Decay of asbestos cement water mains; erosion of natural deposits*

Nitrate and Nitrite

Contaminant	Your water	MCL	Sources of Contaminant
Nitrate, ppm	<1.0	10	*Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits*
Nitrite, ppm	<0.1	1	*Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits*

Turbidity (Combined Filter Effluent Turbidity Values)

Contaminant	Your water	MCL	Sources of Contaminant
Turbidity, NTU (Average)	0.05	TT = 1 NTU	*Soil runoff*

Minerals

Contaminant	Your water	MCL
Calcium, mg/l	5.81	N/A
Sodium, mg/l	21.9	N/A
Magnesium, mg/l	1.67	N/A
Potassium, mg/l	3.09	N/A

Inorganic Chemicals

Contaminant	Your water	MCL	Sources of Contaminant
Antimony, mg/l	<0.001	0.006	*Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder*
Arsenic, mg/l	<0.005	0.01	*Erosion of natrual deposits; runoff from orchards, runoff from glass & electronic production wastes*
Barium, mg/l	<0.400	2	*Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits*
Beryllium, mg/l	<0.002	0.004	*Discharge from metal refineries and coal-buring factories; discharge from electrical, aerospace, and defense industries*
Cadmium, mg/l	<0.001	0.005	*Corrosion of galvanized pipes; erosion of natural depositis; discharge from metal refineries; runoff from waste batteries and paints*
Chromium (Total), mg/l	<0.020	0.1	*Discharge from steel and pulp mills; erosion of natural deposits*
Chromium 6 (Hexavalent Chromium), mg/l	0.00004	NA	*Commonly discharged from steel and pulp mills as well as metal plating and leather tanning facilities*
Cyanide, mg/l	<0.050	0.2	*Discharge from steel/metal factories; discharge from plastic and fertilizer factories*
Fluoride, mg/l	0.75	4	*Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories*
Mercury, mg/l	<0.0004	0.002	*Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and croplands*
Selenium, mg/l	<0.010	0.05	*Discharge from petroleum refineries; erosion of natural deposits; discharge from mines*
Thallium, mg/l	0.001	0.002	*Leaching from ore-processing sites; discharge from electronics, glass and drug factories*

Volatile Organic Chemicals (VOCs)

Contaminant	Your water	MCL	Sources of Contaminant
Benzene, mg/l	<0.0005	0.005	*Discharge from factories; leaching from gas storage tanks and landfills*
Carbon Tetrachloride, mg/l	<0.0005	0.005	*Discharge from chemical plants and other industrial activities*
Chlorobenzene, mg/l	<0.0005	0.1	*Discharge from chemical and agricultural chemical factories*
o-Dichlorobenzene, mg/l	<0.0005	0.6	*Discharge from industrial chemical factories*
p-Dichlorobenzene, mg/l	<0.0005	0.075	*Discharge from industrial chemical factories*
1,2-Dichloroethane, mg/l	<0.0005	0.005	*Discharge from industrial chemical factories*
1,1-Dichloroethylene, mg/l	<0.0005	0.007	*Discharge from industrial chemical factories*
cis-1,2-Dichloroethylene, mg/l	<0.0005	0.07	*Discharge from industrial chemical factories*
trans-1,2-Dichloroethylene, mg/l	<0.0005	0.1	*Discharge from industrial chemical factories*

Volatile Organic Chemicals (VOCs) ~cont

Contaminant	Your water	MCL	Sources of Contaminant
Dichloromethane, mg/l	<0.0005	0.005	*Discharge from industrial chemical factories*
1,2-Dichloropropane, mg/l	<0.0005	0.005	*Discharge from industrial chemical factories*
Ethylbenzene, mg/l	<0.0005	0.7	*Discharge from petroleum refineries*
Styrene, mg/l	<0.0005	0.1	*Discharge from rubber and plastic factories; leaching from landfills*
Tetrachloroethylene, mg/l	<0.0005	0.005	*Discharge from factories and dry cleaners*
Toluene, mg/l	<0.0005	1	*Discharge from petroleum factories*
1,2,4-Trichlorobenzene, mg/l	<0.0005	0.07	*Discharge from textile finishing factories*
1,1,1-Trichoroethane, mg/l	<0.0005	0.2	*Discharge from metal degreasing sites and other factories*
1,1,2-Trichloroethane, mg/l	<0.0005	0.005	*Discharge from industrial chemical factories*
Trichloroethylene, mg/l	<0.0005	0.005	*Discharge from metal degreasing sites and other factories*
Vinyl chloride, mg/l	<0.0005	0.002	*Leaching from PVC pipes; discharge from plastic factories*
Xylenes (Total), mg/l	<0.0005	10	*Discharge from petroleum factories; discharge from chemical factories*

Synthetic Organic Chemicals (SOCs) Contaminants Including Pesticides and Herbicides

Contaminant	Your water	MCL	Sources of Contaminant
Alachlor, mg/l	<0.0002	0.002	*Runoff from herbicide used on row crops*
Atrazine, mg/l	<0.0001	0.003	*Runoff from herbicide used on row crops*
Benzo(a)pyrene, mg/l	<0.00002	0.0002	*Leaching from linings of water storage tanks and distribution lines*
Carbofuran, mg/l	<0.0009	0.04	*Leaching of soil fumigant used on rice and alfalfa*
Chlordane, mg/l	<0.0002	0.002	*Residue of banned termiticide*
2,4-D, mg/l	<0.0001	0.07	*Runoff from herbicide used on row crops*
Dalapon, mg/l	<0.001	0.2	*Runoff from herbicide used on row crops*
Dibromochloropropane	<0.00002	0.0002	*Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples and orchards*
Di(2-ethylhexyl)adipate, mg/l	<0.0006	0.4	*Discharge from chemical factories*
Di(2-ethylhexyl)phthalate, mg/l	<0.00132	0.006	*Discharge from rubber and chemical factories*
Dinoseb, mg/l	<0.0002	0.007	*Runoff from herbicide used on soybeans and vegetables*
Endrin, mg/l	<0.00001	0.002	*Residue of banned insecticide*
Ethylene dibromide, mg/l	<0.00001	0.00005	*Discharge from petroleum refineries*
Heptachlor, mg/l	<0.00004	0.0004	*Residue of banned termiticide*
Heptachlor epoxide, mg/l	<0.00002	0.0002	*Breakdown of heptachor*
Hexachlorobenzene, mg/l	<0.0001	0.001	*Discharge from metal refineries and agricultural chemical factories*
Hexachlorocyclopentadiene, mg/l	<0.0001	0.05	*Discharge from chemical factories*
Lindane, mg/l	<0.00002	0.0002	*Runoff/leaching from insecticide used on cattle, lumber, gardens*
Methoxychlor, mg/l	<0.0001	0.04	*Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock*

Synthetic Organic Chemical (SOC) Contaminants Including Pesticides and Herbicides ~cont

Contaminant	Your water	MCL	Sources of Contaminant
Oxamyl (Vydate), mg/l	<0.002	0.2	*Runoff/leaching from insecticide used on apples, potatoes, and tomatoes*
PCBs (Polychlorinated Biphenyls), mg/l	<0.001	0.0005	*Runoff from landfills; discharge of waste chemicals*
Pentachlorophenol, mg/l	<0.00004	0.001	*Runoff from landfills; discharge of waste chemicals*
Picloram, mg/l	<0.0001	0.5	*Herbicide runoff*
Simazine, mg/l	<0.00007	0.004	*Herbicide runoff*
Toxaphene, mg/l	<0.001	0.003	*Runoff/leaching from insecticide used on cotton and cattle*
2,4,5-TP (Silvex), mg/l	<0.0002	0.05	*Residue of banned herbicide*

Radionuclides

Contaminant	Your water	MCL	Sources of Contaminant
Alpha emitters, pCi/L	<3	15	*Erosion of natural deposits*
Beta photon emitters, pCi/L	<4	50	*Decay of natural and man made deposits*
Combined radium (pCi/L)	1.71	5	*Erosion of natural deposits*
Uranium, pCi/L	<1	20.1	*Erosion of natural deposits*
Radon, pCi/L	<100	300	*Radiactive gas*

Water Quality Characteristics

Contaminant	Your water	MCL
Alkalinity, mg/l as CaCO3	25.4	NA
Aluminum, mg/l	<0.01	0.2
Carbon Dioxide, mg/l	0.14	NA
Color, CU	0.42	15
Chloride, mg/l	13.8	250
Conductivity, uS/cm	195	NA
Hardness, Total, mg/l as CaCO3	23.3	Classified as "Soft"
Hardness, Total, grains per gallon	1.36	Classified as "Soft"
Iron, mg/l	<0.06	0.3
Manganese, mg/l	<0.010	0.05
Nickel, mg/l	<0.100	NA
pH, SU	8.54	6.5 to 8.5
Silica, mg/l	8.47	NA
Sulfate, mg/l	40.4	250
Temperature, °C	20.1	NA
Total Dissolved Solids, mg/l	131	500
UV 254, mg/l	0.03	NA
Zinc, mg/l	<0.01	5

Unregulated Contaminants

Contaminant	Your water	MCL
Perchlorate, mg/l	0.0002	NA
N-Nitrosodimethylamine (NDMA), ng/l	<2.0	NA
Acetaldehyde, ug/l	<5.0	NA
Benzaldehyde, ug/l	<5.0	NA
Butanal, ug/l	<5.0	NA
Crotonaldehyde, ug/l	<5.0	NA
Cyclohexanone, ug/l	<5.0	NA
Decanal, ug/l	<5.0	NA
Formaldehyde, ug/l	<5.0	NA
Glyoxal, ug/l	<5.0	NA
Heptanal, ug/l	<5.0	NA
Hexanal, ug/l	<5.0	NA
Methyl glyoxal, ug/l	<5.0	NA
Nonanal, ug/l	<5.0	NA
Octanal, ug/l	<5.0	NA
Pentanal, ug/l	<5.0	NA
Propanal, ug/l	<5.0	NA

Treatment Process Information

Chemical	Typical Dosage Range	Purpose of Treatment
Ozone, ppm	1.8 - 3.6	Oxidant
Potassium Permanganate, ppm	1 - 2.5	Pre Oxidant
Ferric Sulfate, ppm	60 - 100	Coagulant
Polymer, ppm	0.30 - 0.60	Coagulant Aid
Sodium Hydroxide, ppm	25 - 45	pH Control
Carbon, ppm	3 - 6	Taste and Odor and organics removal
Silicate, ppm	1 - 2	Corrosion control
Hydrofluorosilicic Acid, ppm	0.75 - 0.90	Fluoride Additive
Chlorine, ppm	4.5 - 5.5	Disinfectant
Ammonia, ppm	3.5:1 Cl2:NH3 Ratio	Disinfectant when use in conjuction with chlorine to form chloramines
Filter Aid Polymer, ppm	0.08 - 0.12	Enhanced Filtration

Abbreviations and Definitions

As you review the test results, you may find terms and abbreviations with which you are not familiar. Below is a reference guide to help you better understand the terms and abbreviations used in this report.

Parts per million (ppm) or Milligrams per liter (mg/L) – One part per million corresponds to one minute in two years or a single penny in $10,000.

Parts per billion (ppb) or Micrograms per liter (ug/L) – One part per billion corresponds to one minute in 2,000 years or a single penny in $10,000,000.

Picocuries per liter (pCi/L) – Picocuries per liter is a measure of the radioactivity in water.

Million Fibers per Liter (MF/L) – Million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) – Nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

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

Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.

Not-Applicable (N/A) – Information not applicable/not required for that particular water system or for that particular rule.

Maximum Contaminant Level (MCL) – The highest level of a contaminant that is allowed in drinking water