



Orange Water and Sewer Authority 2018 Drinking Water Test Results Summary



Summary of all substances for which we analyzed in 2018 (unless otherwise noted).
Please see the [definitions](#) at the end. For example, BDL means below detectable level.

Substance (Units) (year measured if not 2018)	Highest Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)	Major Source in Drinking Water
Microbiological					
Total Coliform Bacteria (percent)	N/A	N/A	TT*	N/A	Naturally present in the environment
* If a system collecting 40 or more samples per month finds greater than 5% of monthly samples are positive in one month, a Level 1 or Level 2 Assessment is required. No assessments were required in 2018.					
<i>E. coli</i> Bacteria (percent)	0	no range	If either an original routine sample and/or its repeat samples(s) are <i>E. coli</i> positive, a Tier 1 violation exists.	0	Human and animal fecal waste
Turbidity (NTU)	0.080 and 100% of samples below 0.3	0.008 to 0.080 with an average of 0.019	TT = 1 NTU and at least 95% of samples below 0.3	N/A	A measure of the cloudiness of water. It may be caused by inorganic soil particles or fragments of organic matter that can interfere with treatment.
Inorganics					
Antimony (ppb)	BDL	no range	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic (ppb)	BDL	no range	10	0	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	BDL	no range	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Beryllium (ppb)	BDL	no range	4	4	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	BDL	no range	5	5	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints

Substance (Units) (year measured if not 2018)	Highest Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)	Major Source in Drinking Water
Chromium (ppb)	BDL	no range	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Copper (ppm) (last tested 2017)	BDL (90 th percentile, with 0 sample sites above the action level)	< 0.050 to 0.120	1.3 (action level)	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Cyanide (ppb)	BDL	no range	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride (ppm)	0.6	no range	4*	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories**
<p>* The fluoride level in our water (0.6 of one part per million) was well below the maximum allowed (4 parts per million). ** In accordance with Federal requirements, our annual Water Quality Report Cards include a statement that potential sources of fluoride in drinking water include erosion of natural deposits; water additive which promotes strong teeth; [and] discharge from fertilizer and aluminum factories. However, there are no fertilizer or aluminum factories in the watersheds of our Cane Creek Reservoir and University Lake.</p>					
Lead (ppb) (last tested 2017)	BDL (90 th percentile, with 0 sample sites above the action level)	< 3 to 4	15 (action level)	0	Corrosion of household plumbing systems; erosion of natural deposits
Mercury (ppb)	BDL	no range	2	2	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Nickel (ppm)	BDL	no range	not regulated	not regulated	A mineral that occurs naturally in soils
Nitrate (ppm)	BDL	no range	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (ppm)	BDL	no range	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium (ppb)	BDL	no range	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium (ppm)	32	no range	not regulated	20 [proposed]	An element that occurs naturally in soils
Sulfate (ppm)	56	no range	250 [Secondary MCL]	N/A	A mineral that occurs naturally in soils

Substance (Units) (year measured if not 2018)	Highest Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)	Major Source in Drinking Water
Thallium (ppb)	BDL	no range	2	0.5	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories
Disinfectants and Disinfection Byproducts					
Total Haloacetic Acids (HAAs) (ppb)	13.7 (highest Locational Running Annual Average)	4.9 to 19.3 (individual sample sites)	60	0	Byproducts of drinking water disinfection
Total Trihalomethanes (THMs) (ppb)	22.9 (highest Locational Running Annual Average)	10.9 to 35.5 (individual sample sites)	80	0	
Chloramines (ppm)	3.0 (average of monthly distribution system samples Jan., Feb., and April through Dec.)	0.2 to 3.8 (range of individual distribution system samples Jan., Feb., and April through Dec.)	MRDL = 4	MRDLG = 4	Water additives used to control microbes
Chlorine (ppm)	1.20 (average of distribution system samples in March during burnout)	0.0 to 2.12 (range of individual distribution system samples in March during burnout)	MRDL = 4	MRDLG = 4	
Disinfection Byproduct Precursors					
Total Organic Carbon, Treated (ppm)	1.83 (running annual average of Removal Ratio)	1.72 to 1.98 (range of Removal Ratios)	TT = Removal Ratio ≥ 1.0	N/A	Naturally present in environment
Specific Ultraviolet Absorption (L/mg-m)	2.13	0.86 to 3.69	not regulated	not regulated	
Synthetic Organics, including Pesticides and Herbicides					
2,4-D (ppb)	BDL	no range	70	70	Runoff from herbicide used on row crops
2,4,5-TP (Silvex) (ppb)	BDL	no range	50	50	Residue of banned herbicide
Alachlor (ppb)	BDL	no range	2	0	Runoff from herbicides used on row crops
Atrazine (ppb)	BDL	no range	3	3	

Substance (Units) (year measured if not 2018)	Highest Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)	Major Source in Drinking Water
Benzo(a)pyrene (ppt)	BDL	no range	200	0	Leaching from linings of water storage tanks and distribution lines
Carbofuran (ppb)	BDL	no range	40	40	Leaching of soil fumigant used on rice and alfalfa
Chlordane (ppb)	BDL	no range	2	0	Residue of banned termiticide
Dalapon (ppb)	BDL	no range	200	200	Runoff from herbicide used on rights of way
Di(2-ethylhexyl)adipate (ppb)	BDL	no range	400	400	Discharge from chemical factories
Di(2-ethylhexyl)phthalate (ppb)	BDL	no range	6	0	Discharge from rubber and chemical factories
Dibromochloroprane (DBCP) (ppt)	BDL	no range	200	0	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb (ppb)	BDL	no range	7	7	Runoff from herbicide used on soybeans and vegetables
Endrin (ppb)	BDL	no range	2	2	Residue of banned insecticide
Ethylenedibromide (EDB) (ppt)	BDL	no range	50	0	Discharge from petroleum refineries
Heptachlor (ppt)	BDL	no range	400	0	Residue of banned termiticide
Heptachlor epoxide (ppt)	BDL	no range	200	0	Breakdown of heptachlor
Hexachlorobenzene (ppb)	BDL	no range	1	0	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclopentadiene (ppb)	BDL	no range	50	50	Discharge from chemical factories

Substance (Units) (year measured if not 2018)	Highest Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)	Major Source in Drinking Water
Lindane (ppt)	BDL	no range	200	200	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb)	BDL	no range	40	40	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Oxamyl(vydate) (ppb)	BDL	no range	200	200	Runoff/leaching from insecticide used on apples, potatoes, and tomatoes
Polychlorinatedbiphenyls (PCB) (ppt)	BDL	no range	500	0	Runoff from landfills; discharge of waste chemicals
Pentachlorophenol (ppb)	BDL	no range	1	0	Discharge from wood preserving factories
Picloram (ppb)	BDL	no range	500	500	Herbicide runoff
Simazine (ppb)	BDL	no range	4	4	
Toxaphene (ppb)	BDL	no range	3	0	Runoff/leaching from insecticide used on cotton and cattle
Volatile Organics					
Benzene (ppb)	BDL	no range	5	0	Discharge from factories; leaching from gas storage tanks and landfills
Carbon Tetrachloride (ppb)	BDL	no range	5	0	Discharge from chemical plants and other industrial activities
Chlorobenzene (ppb)	BDL	no range	100	100	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene (ppb)	BDL	no range	600	600	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	BDL	no range	75	75	

Substance (Units) (year measured if not 2018)	Highest Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)	Major Source in Drinking Water
1,2-Dichloroethane (ppb)	BDL	no range	5	0	Discharge from industrial chemical factories
1,1-Dichloroethylene (ppb)	BDL	no range	7	7	
cis-1,2-Dichloroethylene (ppb)	BDL	no range	70	70	
trans-1,2-Dichloroethylene (ppb)	BDL	no range	100	100	
Dichloromethane (ppb)	BDL	no range	5	0	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropane (ppb)	BDL	no range	5	0	Discharge from industrial chemical factories
Ethylbenzene (ppb)	BDL	no range	700	700	Discharge from petroleum refineries
Styrene (ppb)	BDL	no range	100	100	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene (ppb)	BDL	no range	5	0	Leaching from PVC pipes; discharge from factories and dry cleaners
1,2,4-Trichlorobenzene (ppb)	BDL	no range	70	70	Discharge from textile-finishing factories
1,1,1-Trichloroethane (ppb)	BDL	no range	200	200	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane (ppb)	BDL	no range	5	3	Discharge from industrial chemical factories
Trichloroethylene (ppb)	BDL	no range	5	0	Discharge from metal degreasing sites and other factories
Tolulene (ppm)	BDL	no range	1	1	Discharge from petroleum factories

Substance (Units) (year measured if not 2018)	Highest Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)	Major Source in Drinking Water
Vinyl Chloride (ppb)	BDL	no range	2	0	Leaching from PVC piping; discharge from plastics factories
Xylenes (ppm)	BDL	no range	10	10	Discharge from petroleum factories; discharge from chemical factories
Radiological Substances					
Gross Alpha (pCi/L) (last tested in 2017)	BDL	no range	15	0	Erosion of natural deposits
Uranium (pCi/L) (last tested in 2017)	BDL	no range	20.1	0	
Combined Radium (pCi/L) (last tested in 2017)	0.33	no range	5	0	
Radium 226 (pCi/L) (last tested in 2017)	BDL	no range	3	0	
Radium 228 (pCi/L) (last tested in 2017)	BDL	no range	2	0	
Gross Beta (pCi/L) (last tested in 2017)	BDL	no range	50	0	Decay of natural and man-made deposits
Unregulated Volatile Organics					
Bromodichloromethane (ppb)	1.6	no range	not regulated	not regulated	Byproduct of drinking water chlorination
Bromoform (ppb)	BDL	no range	not regulated	not regulated	
Chloroform (ppb)	2.9	no range	not regulated	not regulated	
Chlorodibromomethane (ppb)	BDL	no range	not regulated	not regulated	

Substance (Units) (year measured if not 2018)	Highest Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)	Major Source in Drinking Water
Bromochloromethane (ppb)	BDL	no range	not regulated	not regulated	N/A
Bromobenzene (ppb)	BDL	no range	not regulated	not regulated	N/A
Bromomethane (ppb)	BDL	no range	not regulated	not regulated	N/A
n-Butylbenzene (ppb)	BDL	no range	not regulated	not regulated	N/A
sec-Butylbenzene (ppb)	BDL	no range	not regulated	not regulated	N/A
tert-Butylbenzene (ppb)	BDL	no range	not regulated	not regulated	N/A
Chloroethane (ppb)	BDL	no range	not regulated	not regulated	N/A
Chloromethane (ppb)	BDL	no range	not regulated	not regulated	N/A
o-Chlorotoluene (ppb)	BDL	no range	not regulated	not regulated	N/A
p-Chlorotoluene (ppb)	BDL	no range	not regulated	not regulated	N/A
1,2-Dibromo-3-chloropropane (DBCP) (ppb)	BDL	no range	not regulated	not regulated	N/A
1,2-Dibromoethane (EDB) (ppb)	BDL	no range	not regulated	not regulated	N/A
Dibromomethane (ppb)	BDL	no range	not regulated	not regulated	N/A
m-Dichlorobenzene (ppb)	BDL	no range	not regulated	not regulated	N/A

Substance (Units) (year measured if not 2018)	Highest Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)	Major Source in Drinking Water
Dichlorodifluoromethane (ppb)	BDL	no range	not regulated	not regulated	N/A
1,1-Dichloroethane (ppb)	BDL	no range	not regulated	not regulated	N/A
1,3-Dichloropropane (ppb)	BDL	no range	not regulated	not regulated	N/A
2,2-Dichloropropane (ppb)	BDL	no range	not regulated	not regulated	N/A
1,1-Dichloropropylene (ppb)	BDL	no range	not regulated	not regulated	N/A
cis-1,3-Dichloropropylene (ppb)	BDL	no range	not regulated	not regulated	N/A
trans-1,3-Dichloropropylene (ppb)	BDL	no range	not regulated	not regulated	N/A
Fluorotrichloromethane (ppb)	BDL	no range	not regulated	not regulated	N/A
Hexachlorobutadiene (ppb)	BDL	no range	not regulated	not regulated	N/A
Isopropylbenzene (ppb)	BDL	no range	not regulated	not regulated	N/A
p-Isopropyltoluene (ppb)	BDL	no range	not regulated	not regulated	N/A
Methyl-t-Butyl Ether (MTBE) (ppb)	BDL	no range	not regulated	not regulated	N/A
Naphthalene (ppb)	BDL	no range	not regulated	not regulated	N/A
n-Propylbenzene (ppb)	BDL	no range	not regulated	not regulated	N/A

Substance (Units) (year measured if not 2018)	Highest Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)	Major Source in Drinking Water
1,1,1,2-Tetrachloroethane (ppb)	BDL	no range	not regulated	not regulated	N/A
1,1,2,2-Tetrachloroethane (ppb)	BDL	no range	not regulated	not regulated	N/A
1,2,3-Trichlorobenzene (ppb)	BDL	no range	not regulated	not regulated	N/A
1,2,3-Trichloropropane (ppb)	BDL	no range	not regulated	not regulated	N/A
1,2,4-Trimethylbenzene (ppb)	BDL	no range	not regulated	not regulated	N/A
1,3,5-Trimethylbenzene (ppb)	BDL	no range	not regulated	not regulated	N/A
1,2-Xylene (ppb)	BDL	no range	not regulated	not regulated	N/A
1,3 + 1,4-Xylene (ppb)	BDL	no range	not regulated	not regulated	N/A
Additional Unregulated Substances					
Cryptosporidium (oocysts/100 L)	BDL	no range	not regulated	not regulated	Intestinal protozoa found in human and animal fecal waste
Giardia (cysts/100 L)	BDL	no range	not regulated	not regulated	
Chlorate (ppb)	260	120 to 260	not regulated	not regulated	Byproduct of drinking water disinfection
Anatoxin-a (ppb)	BDL	no range	not regulated	not regulated	Algal toxin released from cyanobacteria (also called blue green algae)
Cylindrospermopsin (ppb)	BDL	no range	not regulated	non-regulatory EPA Health Advisory: 0.7 for children <6 years and 3.0 for persons >6 years	

Substance (Units) (year measured if not 2018)	Highest Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)	Major Source in Drinking Water
Microcystin (ppb)	0.31	< 0.15 to 0.31	not regulated	non-regulatory EPA Health Advisory: 0.3 for children <6 years and 1.6 for persons >6 years; WHO recommends 1.0	Algal toxin released from cyanobacteria (also called blue green algae)
10:2 Fluorotelomer Sulfonic Acid (ppt)	BDL	no range	not regulated	not regulated	Man-made chemicals used in waterproof and stain proof fabrics, nonstick cookware, some food packaging materials, and some fire suppression foams. And also, used in manufacturing processes for a variety of reasons including suppressing fires, repelling moisture, and reducing mechanical wear.
4:2 Fluorotelomer Sulfonic Acid (ppt)	BDL	no range	not regulated	not regulated	
6:2 Fluorotelomer Sulfonic Acid (ppt)	BDL	no range	not regulated	not regulated	
8:2 Fluorotelomer Sulfonic Acid (ppt)	BDL	no range	not regulated	not regulated	
ADONA (ppt)	BDL	no range	not regulated	not regulated	
F-53B Major (ppt)	BDL	no range	not regulated	not regulated	
F-53B Minor (ppt)	BDL	no range	not regulated	not regulated	
GenX (ppt)	BDL	no range	not regulated	not regulated	
N-ethylperfluorooctane Sulfonamide (ppt)	BDL	no range	not regulated	not regulated	
N-ethylperfluorooctane Sulfonamidoethanol (ppt)	BDL	no range	not regulated	not regulated	
N-methylperfluorooctane Sulfonamide (ppt)	BDL	no range	not regulated	not regulated	
N-methylperfluorooctane Sulfonamidoethanol (ppt)	BDL	no range	not regulated	not regulated	

Substance (Units) (year measured if not 2018)	Highest Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)	Major Source in Drinking Water
Perfluorobutanesulfonic Acid (ppt)	4.2	3.6 to 4.2	not regulated	not regulated	Man-made chemicals used in waterproof and stain proof fabrics, nonstick cookware, some food packaging materials, and some fire suppression foams. And also, used in manufacturing processes for a variety of reasons including suppressing fires, repelling moisture, and reducing mechanical wear.
Perfluorobutanoic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluorodecanoic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluoroheptanoic Acid (ppt)	7.4	6.1 to 7.4	not regulated	not regulated	
Perfluorohexanesulfonic Acid (ppt)	3.5	2.7 to 3.5	not regulated	not regulated	
Perfluorohexanoic Acid (ppt)	7.7	7.0 to 7.7	not regulated	not regulated	
Perfluorolauric Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluorononanoic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluorooctane Sulfonic Acid (ppt)	3.1	2.7 to 3.1	not regulated	not regulated	
N-ethyl Perfluorooctanesulfonamidoacetic Acid (ppt)	BDL	no range	not regulated	not regulated	
N-methyl Perfluorooctanesulfonamidoacetic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluorooctanoic Acid (ppt)	15	11 to 15	not regulated	not regulated	
Perfluorotridecanoic Acid (ppt)	BDL	no range	not regulated	not regulated	

Substance (Units) (year measured if not 2018)	Highest Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)	Major Source in Drinking Water
Perfluoroundecanoic Acid (ppt)	BDL	no range	not regulated	not regulated	Man-made chemicals used in waterproof and stain proof fabrics, nonstick cookware, some food packaging materials, and some fire suppression foams. And also, used in manufacturing processes for a variety of reasons including suppressing fires, repelling moisture, and reducing mechanical wear.
Perfluorododecanesulfonic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluorodecanesulfonic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluoroheptanesulfonic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluorohexadecanoic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluoro-2-(2-methyl)ethoxyacetic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluoro-4-(1-methyl)ethoxybutanoic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluoro-4-methoxybutanoic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluoro-3-methoxypropanoic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluorononanesulfonic acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluorooctane sulfonamide (ppt)	BDL	no range	not regulated	not regulated	
Perfluoropentanoic Acid (ppt)	5.1	4.7 to 5.1	not regulated	not regulated	
Perfluoropentanesulfonic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluorotetradecanoic Acid (ppt)	BDL	no range	not regulated	not regulated	

Substance (Units) (year measured if not 2018)	Highest Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)	Major Source in Drinking Water
Polyethylene Microplastics (0.2 to 5000 µm)	BDL	no range	not regulated	not regulated	Plastics produced as microplastics (e.g., microbeads), degradation of larger plastics (e.g., from consumer products), release from synthetic textiles
Polypropylene Microplastics (0.2 to 5000 µm)	BDL	no range	not regulated	not regulated	
Polystyrene Microplastics (0.2 to 5000 µm)	BDL	no range	not regulated	not regulated	
Polyvinyl Chloride Microplastics (0.2 to 5000 µm)	BDL	no range	not regulated	not regulated	
Polyethylene Terephthalate Microplastics (0.2 to 5000 µm)	BDL	no range	not regulated	not regulated	
Polyamide 6 Microplastics (0.2 to 5000 µm)	BDL	no range	not regulated	not regulated	
Polymethyl Methacrylate Microplastics (0.2 to 5000 µm)	BDL	no range	not regulated	not regulated	
Polycarbonate Microplastics (0.2 to 5000 µm)	BDL	no range	not regulated	not regulated	

Unregulated Contaminant Monitoring Rule

To date there have been four rounds of Unregulated Contaminant Monitoring Rule testing (called UCMR 1, UCMR 2, UCMR 3, and UCMR 4), each focusing on a separate set of compounds. OWASA has participated rounds 1 through 3 so far and will continue to participate in future iterations of the UCMR. OWASA's assigned sampling period for UCMR 4 begins August 2019 and ends August 2020. The data OWASA collects in each round of UCMR testing are available at <http://www.owasa.org/testing-for-unregulated-compounds>.

Physical Water Quality Characteristics

The following characteristics impact the taste and appearance of drinking water.

Substance (Units)	Average Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)
Alkalinity (mg CaCO ₃ /L)	33.0	21.3 to 42.0	not regulated	not regulated
Total Hardness (mg CaCO ₃ /L)	27.9	21.0 to 50.0	not regulated	not regulated
Calcium Hardness (mg CaCO ₃ /L)	16.5	13.4 to 26.2	not regulated	not regulated
Calcium (ppm)	6.62	5.37 to 10.50	not regulated	not regulated
Estimated Magnesium (ppm) based on calculation	2.8	no range	not regulated	not regulated
Iron (ppm)	0.01	0 to 0.09	No MCL SMCL = 0.3	0.3
Manganese (ppm)	0.005	0 to 0.082	No MCL SMCL = 0.05	0.05
Orthophosphate as P (ppm)	0.58	0.52 to 0.64	not regulated	not regulated
pH	8.30	7.33 to 8.73	No MCL	6.5 to 8.5
Specific Conductance (μS/cm)	235	206 to 265	not regulated	not regulated
Color (CU)	0	0 to 3	No MCL	15
Total Phosphorus (ppm)	0.70	0.55 to 1.00	not regulated	not regulated

Definitions

90th Percentile – 90 percent of the samples were below this value. Required reporting unit for lead and copper.

Action Level – The concentration of a substance which, if exceeded, triggers a treatment or other requirement which a water system must follow.

BDL – Below detection level.

CU – Color units - a measurement used for color of water.

Level 1 Assessment – A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in a water system.

Level 2 Assessment – A very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in a water system on multiple occasions.

L/mg-m – Unit of measure for Specific Ultraviolet Absorbance (SUVA). Measured in units of absorbance per meter of path length and normalized to the concentration of dissolved organic carbon.

LRAA – Locational Running Annual Average - The average of results for samples taken at a monitoring location during the previous four calendar quarters under the Stage 2 Disinfectants and Disinfection Byproducts Rule.

MCL – Maximum contaminant level - the highest level of a substance 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 substance in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

MFL – Million fibers per liter - a measure of the presence of asbestos fibers that are longer than 10 micrometers in water.

mg CaCO₃/L - Milligrams of calcium carbonate per liter water.

MRDL – Maximum Residual Disinfection Level - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG – Maximum Residual Disinfection Level Goal - The level of drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NTU – Nephelometric Turbidity Unit - A measure of the clarity (or cloudiness) of water. Turbidity above 5 NTU is noticeable to the average person.

pCi/L – PicoCuries per liter - a measure of radioactivity in water with an activity equal to one millionth of a millionth of a curie.

ppb – Parts per billion - equivalent to micrograms per liter (µg/L). One part per billion is comparable to 1 penny in \$10,000,000.

ppm – Parts per million - equivalent to milligrams per liter (mg/L). One part per million is comparable to 1 penny in \$10,000.

ppt – Parts per trillion - equivalent to nanograms per liter (ng/L). One part per trillion is comparable to 1 penny in \$10,000,000,000.

Removal Ratio – Measure of the effectiveness of Total Organic Carbon (TOC) removal during treatment process. Percentage of TOC removed through treatment divided by the required percent removal. $[(\text{Raw TOC} - \text{Treated TOC}) \div (\text{Raw TOC})] \div (\text{Required Percentage TOC Removal})$.

SMCL – Secondary maximum contaminant level - limits set for aesthetic reasons. They are non-enforceable.

TT – Treatment technique - a required process intended to reduce the level of a substance in drinking water.

µS/cm – Microsiemens per centimeter - a measure of the conductivity of water.

µm – Micrometer - a measure of distance equivalent to one millionth of a meter.