



Orange Water and Sewer Authority 2020 Drinking Water Test Results Summary



Summary of all substances for which we analyzed in 2020 (unless otherwise noted).
Please see the [definitions](#) at the end. For example, BDL means below detectable level.

Substance (Units) (year measured if not 2020)	Average 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 2020.					
<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)	0.245 (highest single turbidity measurement) and 100% of samples below 0.3	0.013 to 0.245 with an average of 0.021	TT = 1 NTU and at least 95% of samples below 0.3	N/A	A measure of the cloudiness of water caused by inorganic soil particles or 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	Natural deposits; orchard runoff; glass and electronics production waste runoff
Asbestos (MFL)	BDL	no range	7	7	Decay of asbestos cement water mains; erosion of natural deposits
Barium (ppm)	BDL	no range	2	2	Drilling waste & metal refinery discharges; natural deposits
Beryllium (ppb)	BDL	no range	4	4	Metal refinery and coal-burning factory discharges; electrical, aerospace, and defense industry discharges
Cadmium (ppb)	BDL	no range	5	5	Galvanized pipe corrosion; natural deposits; metal refinery discharges; waste batteries & paints

Substance (Units) (year measured if not 2020)	Average Level Detected	Range Detected	Highest Level Allowed (MCL)	Highest Level Goal (MCLG)	Major Source in Drinking Water
Chromium (ppb)	BDL	no range	100	100	Steel & pulp mill discharges; natural deposits
Copper (ppm)	0.029 (90 th percentile) 0 sample sites above the action level	0.007 to 0.038	1.3 (action level)	1.3	Household plumbing corrosion; natural deposits; leaching from wood preservatives
Cyanide (ppb)	BDL	no range	200	200	Metal, plastic, & fertilizer factory discharges
Fluoride (ppm)	0.67	0.28 to 0.79	4*	4	Natural deposits; water additive which promotes strong teeth; fertilizer and aluminum factory discharges**
* The fluoride level in our water (0.67 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.					
Lead (ppb)	BDL (90 th percentile) 0 sample sites above the action level	no range	15 (action level)	0	Household plumbing corrosion; natural deposits
Mercury (ppb)	BDL	no range	2	2	Natural deposits; refinery and factory discharges; landfills runoff; cropland runoff
Nickel (ppm)	BDL	no range	not regulated	not regulated	Occurs naturally in soils
Nitrate (ppm)	BDL	no range	10	10	Fertilizer runoff; septic tanks & sewage leaching; erosion of natural deposits
Nitrite (ppm)	BDL	no range	1	1	
Selenium (ppb)	BDL	no range	50	50	Petroleum and metal refinery discharges; erosion of natural deposits; mine discharge
Sodium (ppm)	36	no range	not regulated	20 [proposed]	Occurs naturally in soils
Sulfate (ppm)	56	no range	250 [Secondary MCL]	N/A	
Thallium (ppb)	BDL	no range	2	0.5	Ore-processing leachate; electronics, glass, & pharmaceutical factory discharges

Disinfectants and Disinfection Byproducts					
Total Haloacetic Acids (HAAs) (ppb)	13.1 (highest Locational Running Annual Average)	8.5 to 20.0 (individual sites)	60	0	Byproducts of drinking water disinfection
Total Trihalomethanes (THMs) (ppb)	21.7 (highest Locational Running Annual Average)	13.3 to 35.3 (individual sites)	80	0	Byproducts of drinking water disinfection
Chloramines (ppm)	2.81 (avg of monthly distribution system samples Jan., Feb., & April-Dec.)	0.10 to 3.80 (individual distribution system samples Jan., Feb., & April-Dec.)	MRDL = 4	MRDLG = 4	Water additives used to control microbes
Chlorine (ppm)	1.33 (avg of distribution system samples in March)	0.03 to 2.90 (individual distribution system samples in March)	MRDL = 4	MRDLG = 4	
Disinfection Byproduct Precursors					
Total Organic Carbon, Treated (ppm)	1.86 (running annual average of Removal Ratio)	1.64 to 1.96 (range of Removal Ratios)	TT = Removal Ratio \geq 1.0	N/A	Naturally present in environment
Specific Ultraviolet Absorption (L/mg-m)	2.24	0.94 to 3.04	not regulated	not regulated	
Synthetic Organics, including Pesticides and Herbicides					
2,4-D (ppb) (last tested 2018)	BDL	no range	70	70	Runoff from herbicide used on row crops
2,4,5-TP (Silvex) (ppb) (last tested 2018)	BDL	no range	50	50	Residue of banned herbicide
Alachlor (ppb) (last tested 2018)	BDL	no range	2	0	Runoff from herbicides used on row crops
Atrazine (ppb) (last tested 2018)	BDL	no range	3	3	
Benzo(a)pyrene (ppt) (last tested 2018)	BDL	no range	200	0	Water storage tank & distribution line linings
Carbofuran (ppb) (last tested 2018)	BDL	no range	40	40	Soil fumigant used on rice and alfalfa
Chlordane (ppb) (last tested 2018)	BDL	no range	2	0	Residue of banned termiticide

Dalapon (ppb) (last tested 2018)	BDL	no range	200	200	Runoff from herbicide used on rights of way
Di(2-ethylhexyl)adipate (ppb) (last tested 2018)	BDL	no range	400	400	Discharge from chemical factories
Di(2-ethylhexyl)phthalate (ppb) (last tested 2018)	BDL	no range	6	0	Discharge from rubber and chemical factories
Dibromochloropropane (DBCP) (ppt) (last tested 2018)	BDL	no range	200	0	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb (ppb) (last tested 2018)	BDL	no range	7	7	Runoff from herbicide used on soybeans and vegetables
Endrin (ppb) (last tested 2018)	BDL	no range	2	2	Residue of banned insecticide
Ethylenedibromide (EDB) (ppt) (last tested 2018)	BDL	no range	50	0	Discharge from petroleum refineries
Heptachlor (ppt) (last tested 2018)	BDL	no range	400	0	Residue of banned termiticide
Heptachlor epoxide (ppt) (last tested 2018)	BDL	no range	200	0	Breakdown of heptachlor
Hexachlorobenzene (ppb) (last tested 2018)	BDL	no range	1	0	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclopentadiene (ppb) (last tested 2018)	BDL	no range	50	50	Discharge from chemical factories
Lindane (ppt) (last tested 2018)	BDL	no range	200	200	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb) (last tested 2018)	BDL	no range	40	40	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
Oxamyl(vydate) (ppb) (last tested 2018)	BDL	no range	200	200	Runoff/leaching from insecticide used on apples, potatoes, and tomatoes
Polychlorinatedbiphenyls (PCB) (ppt) (last tested 2018)	BDL	no range	500	0	Landfill runoff; discharge of waste chemicals

Pentachlorophenol (ppb) (last tested 2018)	BDL	no range	1	0	Wood preserving factory discharges
Picloram (ppb) (last tested 2018)	BDL	no range	500	500	Herbicide runoff
Simazine (ppb) (last tested 2018)	BDL	no range	4	4	
Toxaphene (ppb) (last tested 2018)	BDL	no range	3	0	Insecticide used on cotton and cattle runoff
Volatile Organics					
Benzene (ppb)	BDL	no range	5	0	Factory discharges; gas storage tank & landfill leachate
Carbon Tetrachloride (ppb)	BDL	no range	5	0	Chemical plant & industrial activity discharges
Chlorobenzene (ppb)	BDL	no range	100	100	Agricultural & non-ag chemical factory discharges
o-Dichlorobenzene (ppb)	BDL	no range	600	600	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	BDL	no range	75	75	
1,2-Dichloroethane (ppb)	BDL	no range	5	0	
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	Pharmaceutical & chemical factory discharges
1,2-Dichloropropane (ppb)	BDL	no range	5	0	Chemical factory discharges
Ethylbenzene (ppb)	BDL	no range	700	700	Petroleum refinery discharges

Styrene (ppb)	BDL	no range	100	100	Rubber & plastic factory discharges; landfill leachate
Tetrachloroethylene (ppb)	BDL	no range	5	0	PVC pipes; factories & dry cleaner discharges
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	Metal degreasing sites & factory discharges
1,1,2-Trichloroethane (ppb)	BDL	no range	5	3	Industrial chemical factory discharges
Trichloroethylene (ppb)	BDL	no range	5	0	Metal degreasing sites & factory discharges
Toluene (ppm)	BDL	no range	1	1	Petroleum factory discharges
Vinyl Chloride (ppb)	BDL	no range	2	0	PVC piping; plastics factory discharges
Xylenes (ppm)	BDL	no range	10	10	Petroleum & chemical factory discharges
Radiological Substances					
Gross Alpha (pCi/L) (last tested 2017)	BDL	no range	15	0	Erosion of natural deposits
Uranium (pCi/L) (last tested 2017)	BDL	no range	20.1	0	
Combined Radium (pCi/L) (last tested 2017)	0.33	no range	5	0	
Radium 226 (pCi/L) (last tested 2017)	BDL	no range	3	0	
Radium 228 (pCi/L) (last tested 2017)	BDL	no range	2	0	
Gross Beta (pCi/L) (last tested 2017)	BDL	no range	50	0	Decay of natural and man-made deposits
Unregulated Volatile Organics					
Bromodichloromethane (ppb)	3.4	no range	not regulated	not regulated	Byproduct of drinking water chlorination
Bromoform (ppb)	BDL	no range	not regulated	not regulated	

Chloroform (ppb)	4.7	no range	not regulated	not regulated	Byproduct of drinking water chlorination
Chlorodibromomethane (ppb)	1.1	no range	not regulated	not regulated	
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
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
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)	162	67 to 200	not regulated	not regulated	Byproduct of drinking water disinfection
Perchlorate (ppb) (last tested 2019)	BDL	no range	not regulated	not regulated	Discharge & runoff from manufacture & use of solid rocket propellants, munitions, fireworks, vehicle airbag initiators, matches, signal flares, & nitrate fertilizers; impurity in hypochlorite (drinking water disinfectant [†]); occurs naturally especially in arid climates
† Our supplier has a proactive monitoring and reduction program in place to minimize this source.					
Anatoxin-a (ppb)	BDL	no range	not regulated	not regulated	Algal toxins released from cyanobacteria
Cylindrospermopsin (ppb)	BDL	no range	not regulated	non-regulatory EPA Health Advisory: 0.7 for children <6 years and 3.0 for >6 years	
Microcystin (ppb)	BDL	no range	not regulated	non-regulatory EPA Health Advisory: 0.3 for children <6 yrs & 1.6 for >6 yrs; WHO recommends 1.0	
Saxitoxin (ppb)	BDL	no range	not regulated	not regulated	
10:2 Fluorotelomer Sulfonic Acid (ppt)	BDL	no range	not regulated	not regulated	Manufactured chemicals used in waterproof and stain proof fabrics, nonstick cookware, some food packaging materials, and some fire suppression foams. And 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	Manufactured chemicals used in waterproof and stain proof fabrics, nonstick cookware, some food packaging materials, and some fire suppression foams. And used in manufacturing processes for a variety of reasons including suppressing fires, repelling moisture, and reducing mechanical wear.
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	
Perfluorobutanesulfonic Acid (ppt)	2.9	<2.0 to 4.6	not regulated	not regulated	
Perfluorobutanoic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluorodecanoic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluoroheptanoic Acid (ppt)	5.7	2.2 to 8.4	not regulated	not regulated	
Perfluorohexanesulfonic Acid (ppt)	2.7	<2.0 to 6.0	not regulated	not regulated	
Perfluorohexanoic Acid (ppt)	6.2	4.0 to 7.8	not regulated	not regulated	
Perfluorododecanoic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluorononanoic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluorooctane Sulfonic Acid (ppt)	4.6	<2.0 to 10.0	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)	14.0	4.2 to 24.0	not regulated	not regulated	

Perfluorotridecanoic Acid (ppt)	BDL	no range	not regulated	not regulated	Manufactured chemicals used in waterproof and stain proof fabrics, nonstick cookware, some food packaging materials, and some fire suppression foams. And used in manufacturing processes for a variety of reasons including suppressing fires, repelling moisture, and reducing mechanical wear.
Perfluoroundecanoic Acid (ppt)	BDL	no range	not regulated	not regulated	
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	
Nonafluoro-3,6-dioxaheptanoic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluoro-4-isopropoxybutanoic Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluoro-2-methoxyacetic 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	
Perfluoro(3,5-dioxahexanoic) Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluoro(3,5,7-trioxaoctanoic) Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluoro(3,5,7,9-tetraoxadecanoic) Acid (ppt)	BDL	no range	not regulated	not regulated	
Perfluorooctane sulfonamide (ppt)	BDL	no range	not regulated	not regulated	
Perfluoropentanoic Acid (ppt)	5.2	4.5 to 5.6	not regulated	not regulated	

Perfluoropentanesulfonic Acid (ppt)	1.2	<2.0 to 2.4	not regulated	not regulated	Manufactured chemicals used in waterproof and stain proof fabrics, nonstick cookware, some food packaging materials, and some fire suppression foams. And used in manufacturing processes for a variety of reasons including suppressing fires, repelling moisture, and reducing mechanical wear.
Perfluorotetradecanoic Acid (ppt)	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 focused on a separate set of compounds. OWASA has participated in all rounds and will continue to participate in future iterations of the UCMR. OWASA's assigned sampling period for UCMR 4 began August 2019 and ended July 2020. The data OWASA collects in each round of UCMR testing are available at https://www.owasa.org/water-health/#unregulated_compounds.

Substance (Units)	Average Level Detected	Range Detected	Common Sources
Germanium (ppb)	BDL	no range	Naturally-occurring; byproduct of zinc ore processing; infrared optics, fiber-optic systems, electronics and solar applications
Manganese (ppb)	0.351	<0.400 to 0.701	Naturally-occurring; steel production, fertilizer, batteries and fireworks; drinking water and wastewater treatment chemical; essential nutrient; factsheet
Alpha-hexachlorocyclohexane (ppb)	BDL	no range	Byproduct of a formerly used insecticide
Chlorpyrifos (ppb)	BDL	no range	Insecticide, acaricide and miticide
Dimethipin (ppb)	BDL	no range	Herbicide and plant growth regulator
Ethoprop (ppb)	BDL	no range	Insecticide
Oxyfluorfen (ppb)	BDL	no range	Herbicide
Profenofos (ppb)	BDL	no range	Insecticide and acaricide
Tebuconazole (ppb)	BDL	no range	Fungicide
Permethrin, cis- & trans- (ppb)	BDL	no range	Insecticide
Tribufos (ppb)	BDL	no range	Insecticide and cotton defoliant

Substance (Units)	Average Level Detected	Range Detected	Common Sources
1-butanol (ppb)	BDL	no range	Solvent; food additive; used in production of other chemicals
2-methoxyethanol (ppb)	BDL	no range	Consumer products eg, cosmetics, perfumes, fragrances, hair products, & lotions
2-propen-1-ol (ppb)	BDL	no range	Production flavorings, perfumes & other chemicals
Butylated hydroxyanisole (ppb)	BDL	no range	Food additive (antioxidant)
o-toluidine (ppb)	BDL	no range	Production of dyes, rubber, pharmaceuticals, & pesticides
Quinoline (ppb)	BDL	no range	Pharmaceutical; flavoring agent; chemical production; component of coal
HAA6Br (ppb)	3.77	3.04 to 4.28	Byproducts of drinking water disinfection; factsheet
HAA9 (ppb)	14.83	12.32 to 18.28	Byproducts of drinking water disinfection; factsheet
Anatoxin-a (ppb)	BDL	no range	Algal toxin released from cyanobacteria
Cylindrospermopsin (ppb)	BDL	no range	Algal toxin released from cyanobacteria
Total Microcystins & Nodularins (ppb)	BDL	no range	Algal toxin released from cyanobacteria

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)	33.2	18.3 to 42.0	not regulated	not regulated
Total Hardness (mg CaCO ₃ /L)	23.8	18.0 to 35.0	not regulated	not regulated
Calcium Hardness (mg CaCO ₃ /L)	15.4	11.2 to 17.8	not regulated	not regulated
Calcium (ppm)	6.16	4.49 to 7.13	not regulated	not regulated
Estimated Magnesium (ppm) based on calculation	2.0	no range	not regulated	not regulated
Iron (ppm)	0.03	0 to 0.09	No MCL SMCL = 0.3	0.3
Manganese (ppm)	0.003	0 to 0.082	No MCL SMCL = 0.05	0.05
Ortho-phosphate as P (ppm)	0.59	0.50 to 0.65	not regulated	not regulated
pH	8.34	7.30 to 8.68	No MCL	6.5 to 8.5
Specific Conductance (μS/cm)	253	219 to 279	not regulated	not regulated
Color (CU)	0	no range	No MCL	15
Total Phosphorus (ppm)	0.73	0.71 to 0.75	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.