

Somers Water Utility
2021 Drinking Water Quality Report
 (CCR Data for Wholesale Customers)

Substance (Units)	MCL or (MRDL)	MCLG or (MRDLG)	SMCL	HAL	Level Found	Range/ Comments	Year Test	Violation	Typical Source of Contaminant
Microbiological Results †									
Total Coliform Bacteria (% positive)	< 5% of monthly samples	0	N/A	N/A	0%	0%	2021	No	Naturally present in the environment; E.coli is a type of coliform that is present in human and animal waste.
Disinfection Results †									
Free Chlorine* (ppm)	{ 4 }	{ 4 }	N/A	N/A	1.1	0.89 – 1.27	2021	No	Drinking water disinfectant
Haloacetic Acids (ppb)	60	0	N/A	N/A	10.9 (avg.)	8.1 – 13.2	2021	No	By-product of drinking water chlorination
Tot. Trihalomethanes (ppb)	80	0	N/A	N/A	22.3(avg.)	10.5 – 34.8	2021	No	By-product of drinking water chlorination
Bromodichloromethane (ppb)	80	0	N/A	N/A	7.5	3.9 – 10.0	2021	No	By-product of drinking water chlorination
Bromoform (ppb)	80	0	N/A	N/A	0.64	ND – 0.72	2021	No	By-product of drinking water chlorination
Chloroform (ppb)	80	0	N/A	N/A	11	3.9 – 20.0	2021	No	By-product of drinking water chlorination
Dibromochloromethane (ppb)	80	0	N/A	N/A	3.6	3.1 – 4.8	2021	No	By-product of drinking water chlorination
† - Microbiological and Disinfection Results are for KWU's distribution system, provided as an informational item. These results are not applicable to other distribution systems.									
Cryptosporidium	TT	0	N/A	N/A	0	0	2015-2017	No	Microbial parasite found in surface water throughout the USA
Regulated Inorganic Results									
Antimony (ppb)	6	6	N/A	N/A	ND	ND	2020	No	Discharge from petroleum refineries, fire retardants, ceramics, electronics, solder
Arsenic (ppb)	10	0	N/A	N/A	0.52	0.52	2020	No	Erosion of natural deposits; runoff from orchards , runoff from glass and electronics production wastes
Barium (ppm)	2	2	N/A	N/A	0.021	0.021	2020	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Beryllium (ppb)	4	4	N/A	N/A	ND	ND	2020	No	Discharge from metal refineries and coal burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	5	5	N/A	N/A	ND	ND	2020	No	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium (ppb)	100	100	N/A	N/A	ND	ND	2020	No	Erosion of natural deposits, Discharge from steel and pulp mills
Copper (ppm)	1.3 (AL)	1.3	N/A	N/A	0.17 (90 th percentile)	0.002 – 0.43	2020	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Cyanide (ppb)	200	200	N/A	N/A	ND	ND	2020	No	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride (ppm)	4	4	N/A	N/A	0.75 (avg.)	0.62 – 0.83	2021	No	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Lead (ppb)	15 (AL)	0	N/A	N/A	7.80 (90 th percentile)	0.62 – 11.0	2020	No	Corrosion of household plumbing systems; erosion of natural deposits
Mercury (ppb)	2	2	N/A	N/A	ND	ND	2020	No	Erosion of natural deposits; Discharge from Refineries and factories ; runoff from landfills and croplands
Nickel (ppb)	100	N/A	N/A	N/A	0.8	0.8	2020	No	Occurs naturally in soils, ground water and surface waters and is often used in electroplating, stainless steel and alloy products
Nitrate as N (ppm)	10	10	N/A	N/A	0.48	0.48	2021	No	Runoff from fertilizer use; leaching from septic tanks; erosion of natural deposits
Selenium (ppb)	50	50	N/A	N/A	ND	ND	2020	No	Discharge from petroleum refineries; erosion of natural deposits; discharge from mines
Sodium (ppm)	N/A	N/A	N/A	N/A	15	15	2021	No	N/A
Thallium (ppb)	2	0.5	N/A	N/A	ND	ND	2020	No	Erosion of natural deposits; Leaching from ore processing sites

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Regulated Synthetic Organic Results									
Atrazine (ppb)	3	0	N/A	N/A	0.036	0.036	2020	No	Herbicide – Agricultural Runoff
Dual (Metolachlor) (ppb)	N/A	0	N/A	N/A	0.012	0.012	2020	No	Herbicide – Agricultural Runoff
Radioactive result									
Radioactivity, Gross Alpha (pCi/L)	15	0	N/A	N/A	N.D.	N.D.	2020	No	Erosion of natural deposits
Radium 226 (pCi/L)	5	0	N/A	N/A	N.D.	N.D.	2020	No	Erosion of natural deposits
Radium 228 (pCi/L)	5	0	N/A	N/A	N.D.	N.D.	2020	No	Erosion of natural deposits
Uranium (ug/l)	30	0	N/A	N/A	0.33	0.33	2020	No	Erosion of natural deposits
UCMR-4									
10 Cyanotoxins	N/A	N/A	N/A	N/A	N.D.	N.D.	2018	N/A	Freshwater Cyanobacterial (Blue-Green Algae) Blooms
Germanium (ppb)	N/A	N/A	N/A	N/A	N.D.	N.D.	2018-2019	N/A	Naturally-occurring element; commercially available in combination with other elements and minerals; a byproduct of zinc ore processing; used in infrared optics, fiber optics, electronics and solar applications.
Manganese (ppb)	N/A	N/A	N/A	N/A	0.67	N.D. - 0.67	2018-2019	N/A	Naturally occurring element; commercially available in combination with other elements and minerals; used in steel production, fertilizer, batteries and fireworks; drinking water and wastewater treatment chemical.
8 Pesticides	N/A	N/A	N/A	N/A	N.D.	N.D.	2018-2019	N/A	Agricultural/Residential Run-off (includes Insecticides, herbicides and fungicides.)
1 Pesticide Byproduct (ppb)	N/A	N/A	N/A	N/A	N.D.	N.D.	2018-2019	N/A	Agricultural Run-off
3 Alcohols (ppb)	N/A	N/A	N/A	N/A	N.D.	N.D.	2018-2019	N/A	Solvents, food additives, production of flavorings, consumer products such as synthetic cosmetics, perfumes, fragrances, hair preparations, and skin lotions.
3 Semi-Volatile Organic Compounds (ppb)	N/A	N/A	N/A	N/A	N.D.	N.D.	2018-2019	N/A	Food additives (antioxidants), production of dyes, rubber, pharmaceuticals and pesticides. Used as pharmaceuticals, flavoring agents. Component of coal. Produced as chemical intermediates.
Total Organic Carbon (TOC) (ppb)	N/A	N/A	N/A	N/A	1850 (avg.)	1700 – 2000	2018-2019	N/A	N/A
Bromide (ppb)	N/A	N/A	N/A	N/A	34.8 (avg.)	33 – 36	2018-2019	N/A	Occurs naturally in the environment in low levels. Concentrated sources include wastewater discharges from fossil fuel production and coal fired power plants, mining operations, and pesticides.
3-Brominated Haloacetic Acid (HAA) Disinfection Byproduct Groups	N/A	N/A	N/A	N/A	See Below	See Below	2018-2019	N/A	By-product of drinking water chlorination
HAA-5 (ppb)	N/A	N/A	N/A	N/A	13.8	9.0 – 18.7	2018-2019	N/A	By-product of drinking water chlorination
HAA-6Br (ppb)	N/A	N/A	N/A	N/A	10.4	7.0 – 13.2	2018-2019	N/A	By-product of drinking water chlorination
HAA-9 (ppb)	N/A	N/A	N/A	N/A	23	15.6 – 29.2	2018-2019	N/A	By-product of drinking water chlorination
Dichloroacetic acid (DCAA) (ppb)	N/A	N/A	N/A	N/A	6.3 (avg.)	3.0 – 9.5	2018-2019	N/A	By-product of drinking water chlorination
Monochloroacetic acid (MCAA) (ppb)	N/A	N/A	N/A	N/A	N.D.	N.D.	2018-2019	N/A	By-product of drinking water chlorination
Trichloroacetic acid (TCAA) (ppb)	N/A	N/A	N/A	N/A	6.3 (avg.)	4.0 – 8.4	2018-2019	N/A	By-product of drinking water chlorination

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Bromochloroacetic acid (BCAA) (ppb)	N/A	N/A	N/A	N/A	3.3 (avg.)	1.7 - 4.2	2018-2019	N/A	By-product of drinking water chlorination
Bromodichloroacetic acid (BDCAA) (ppb)	N/A	N/A	N/A	N/A	4.8 (avg.)	3.5 - 6.4	2018-2019	N/A	By-product of drinking water chlorination
Chlorodibromoacetic acid (CDBAA) (ppb)	N/A	N/A	N/A	N/A	1.2 (avg.)	0.96 - 1.6	2018-2019	N/A	By-product of drinking water chlorination
Tribromoacetic acid (TBAA) (ppb)	N/A	N/A	N/A	N/A	N.D.	N.D.	2018-2019	N/A	By-product of drinking water chlorination
Monobromoacetic acid (MBAA) (ppb)	N/A	N/A	N/A	N/A	0.5 (avg.)	N.D. - 0.65	2018-2019	N/A	By-product of drinking water chlorination
Dibromoacetic acid (DBAA) (ppb)	N/A	N/A	N/A	N/A	0.71 (avg.)	0.40 - 0.93	2018-2019	N/A	By-product of drinking water chlorination
Other Monitored Parameters									
Aluminum	N/A	N/A	0.05	0.2	0.08	0.08	2020	N/A	Residual from water treatment process
Chloride	N/A	N/A	250	N/A	15	15	2020	N/A	Runoff
Sulfate (ppm)	N/A	N/A	250	N/A	26	25.00-26.00	2020	N/A	N/A
Ortho-phosphate (ppm)	N/A	N/A	N/A	N/A	0.90 (avg.)	0.84 - 0.98	2021	N/A	Water additive to reduce corrosion of household plumbing systems
Total Organic Carbon (ppm)	TT	N/A	N/A	N/A	1.6 (avg.)	1.4 - 1.7	2021	N/A	N/A
Turbidity (NTU)	< 0.30	N/A	N/A	N/A	0.037 (avg.)	0.023 - 0.153	2021	No	Erosion of natural deposits
Alkalinity (ppm)	N/A	N/A	N/A	N/A	104 (avg.)	98 - 112	2021	N/A	N/A
Conductivity (µS/cm)	N/A	N/A	N/A	N/A	302 (avg.)	290 - 341	2021	N/A	N/A
Total Hardness (ppm)	N/A	N/A	N/A	N/A	137 (avg.)	132 - 144	2021	N/A	N/A
Temperature (°F)	N/A	N/A	N/A	N/A	50.4 (avg.)	33.1 - 70.0	2021	N/A	N/A
pH (pH Units)	N/A	N/A	N/A	N/A	7.67 (avg.)	7.54 - 7.90	2021	N/A	N/A

DEFINITIONS

AL: Action Level The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. Action levels are reported at the 90th percentile from homes at greatest risk.

HAL: Health Advisory Level: The concentration of a contaminant which, if exceeded, poses a health risk and may require a system to post a public notice.

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.

(MRDL): Maximum Residual Disinfectant 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 Disinfectant Level Goal The level of a 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 contamination.

SMCL: Secondary Maximum Contaminant Level: Secondary drinking water standards for contaminants that affect taste, odor, or appearance of the drinking water. The SMCLs do not represent health standards.

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

Abbreviations:

avg: average
 N/A: Not Applicable
 ND: Not Detected
 pCi/L: picocuries per liter
 NTU: Nephelometric Turbidity Units
 ppb: parts per billion (µg/L)
 ppm: parts per million (mg/L)
 µS/cm: microsiemens per centimeter