2019
Water Quality Table

MLGW

How to Read the 2019 Water Quality Table

The table shows the results of our water analyses by pumping station. MLGW operates 10 stations throughout Shelby County. Getting this life-sustaining liquid from the ground to the faucets in your home or business involves a massive coordination effort by the professionals at MLGW. If you have questions about your water, our Water Quality Assurance Laboratory can help you find which pumping station is nearest your home or business. Call 901-320-3962.

Key to Abbreviations:

AL	Action Level – The concentration of a contaminant that, if exceeded, triggers a treatment or other requirement that a water system must follow.
ND	Below Method Detection Limit – The concentration of a compound is less than the smallest amount that can be measured by the test method used.
MCL	Maximum Contaminant Level is the highest level of a contaminant allowed in drinking water. MCLs are set as close as feasible to the maximum contaminant level goals or MCLG 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 health risk. MCLGs allow for a margin of safety.
mg/L or **ppm**	Milligrams per Liter or parts per million is the equivalent to about one drop in a full bathtub of 55 gallons of water (one penny in $10,000)
µg/L or **ppb**	Micrograms per Liter or parts per billion (one penny in $10,000,000)
ppm	Parts per million is the same as a milligrams per Liter
umho/cm	Micromhos per centimeter
NS	No Standard
NTU	Nephelometric Turbidity Units – a measure of water's clarity
(a)	No more than 5% of the monthly samples may be total coliform positive
<	Less than
X	Recommended Level
PCS	Platinum-Cobalt Standard
TON	Threshold Odor Number
*	Action Level – The federal and state standards for lead and cooper are treatment techniques requiring agencies to optimize corrosion control treatment.
**	Sample analysis was not required in 2019. Shown is the most recent data collected.

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Memphis Light, Gas and Water

	MAXIMUM CONTAMINANT LEVEL	SHEAHAN STATION	ALLEN STATION	MCCORD STATION	MALLORY STATION	LICHTERMAN STATION	DAVIS STATION	MORTON STATION	PALMER STATION	LNG PLANT	SHAW STATION	AVERAGE FOR ALL TREATMENT PLANTS
CLARITY												
TURBIDITY (NTU)	2.0	0.22	0.19	0.32	0.20	0.21	0.52	0.26	0.13	0.14	0.19	0.24
MICROBIOLOGICAL												
TOTAL COLIFORM (% positive samples/month)	(a)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
FECAL COLIFORM (% positive samples/month)	(a)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
ORGANIC CHEMICALS (mg/L)												
PESTICIDES**												
ALACHLOR	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ATRAZINE	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLORDANE	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ENDRIN	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEPTACHLOR	0.0004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEPTACHLOR EPOXIDE	0.0002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LINDANE	0.0002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
METHOXYCHLOR	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POLYCHLORINATED BIPHENYLS (PCB'S)	0.0005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SIMAZINE	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOXAPHENE	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SEMI-VOLATILE ORGANIC COMPOUNDS**												
BENZO(a)-PYRENE	0.0002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DI(2-ETHYLHEXYL) ADIPATE	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DI(2-ETHYLHEXYL) PHTHALATE	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROBENZENE	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROCYCLOPENTADIENE	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS**												
BENZENE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	0.075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHYLENE	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CIS-1,2-DICHLOROETHYLENE	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHYLENE	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DICHLOROMETHANE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MONOCHLOROBENZENE	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
STYRENE	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TETRACHLOROETHYLENE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOLUENE	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHYLENE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VINYL CHLORIDE	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL XYLENES	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TRIHALOMETHANES	0.080	0.005	0.012	0.003	0.004	0.006	ND	0.012	0.011	0.012	0.001	0.007

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INORGANIC CHEMICALS (mg/L)**												
ALUMINUM	0.2	0.003	0.017	0.010	0.005	0.015	0.150	0.027	0.009	0.007	0.019	0.026
ANTIMONY	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BARIUM	2.0	0.033	0.050	0.031	0.043	0.018	0.067	0.064	0.027	0.020	0.012	0.037
BERYLLIUM	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHROMIUM	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COPPER	1.3*	0.002	0.015	0.003	0.001	0.004	0.004	0.004	0.03	0.013	0.003	0.008
LEAD	0.015*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MANGANESE	0.05	0.002	0.008	0.004	0.006	0.003	0.004	0.002	0.007	0.011	0.003	0.005
MERCURY	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MOLYBDENUM	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL	0.1	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND
POTASSIUM	NS	0.51	0.57	0.63	0.53	0.39	0.79	0.78	0.82	0.79	0.44	0.63
SILVER	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SELENIUM	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
THALLIUM	0.002	0.0010	0.0008	0.0008	0.0008	0.0008	0.0008	0.0010	0.0009	0.0009	0.001	0.0009
ZINC	5.00	0.0008	0.0008	0.0007	0.0006	0.0028	0.0030	0.0005	0.0200	0.0020	0.0005	0.0032
CHEMICAL PARAMETERS												
CHLORIDE (mg/L)	250	6.7	6.4	4.9	3.5	5.9	4.6	4.0	4.0	2.9	5.2	4.8
COLOR (units - PCS)**	15	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
CYANIDE (mg/L)**	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DETERGENTS - MBAS (mg/L)**	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORIDE (mg/L)	4.0	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6
IRON (mg/L)	0.3	0.02	0.01	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
NITRATE (as Nitrogen) (mg/L)	10.0	0.05	ND	ND	ND	0.23	ND	ND	0.04	ND	0.17	0.05
NITRITE (as Nitrogen) (mg/L)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ODOR (TON)**	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
pH (units)	6.5 - 8.5	7.3	7.3	7.1	7.5	7.2	7.4	7.4	7.0	7.1	7.0	7.2
SODIUM (mg/L)**	NS	10.8	10.9	9.9	8.9	8.9	8.3	6.1	8.3	5.9	9.1	8.7
SPECIFIC CONDUCTANCE (umho/cm @ 25°C)	X900	220	155	137	150	212	211	142	97	100	191	162
SULFATE (mg/L)	250	9.8	7.0	6.6	3.5	4.7	4.4	3.9	4.1	3.9	4.7	5.3
TOTAL DISSOLVED SOLIDS (mg/L)**	500	66	91	72	71	63	115	66	64	76	50	73
ADDITIONAL PARAMETERS												
ALKALINITY as CaCO3(mg/L)	NS	44	66	46	65	36	110	62	41	36	20	53
CALCIUM (mg/L)	NS	8.8	13.7	9.9	11.8	7.4	22.5	12.5	7.2	7.1	3.7	10.4
HARDNESS as CaCO3 (mg/L)	NS	39	60	42	54	31	103	53	31	31	18	46
HARDNESS (grains/gal)	NS	2.3	3.5	2.5	3.2	1.8	6.0	3.1	1.8	1.8	1.1	2.7
MAGNESIUM (mg/L)**	NS	5.2	8.0	5.5	6.7	4.0	14.0	6.1	4.9	3.8	2.5	6.1
PHOSPHATE (mg/L)	NS	0.8	1.1	1.0	1.0	1.0	1.0	0.7	1.0	1.0	1.1	1.0
TEMPERATURE (°C)	NS	22.7	17.3	17.6	22.9	20.7	18.0	24.2	17.3	17.8	17.0	19.5
TEMPERATURE (°F)	NS	72.8	63.1	63.7	73.1	69.2	64.3	75.6	63.2	64.0	62.5	67.2
TOTAL ORGANIC CARBON (mg/L)**	NS	0.383	0.495	0.398	0.476	0.339	0.636	0.421	0.290	0.289	0.205	0.393