

2020 Entry Point to Distribution Monitoring
Annual Averages

Nashville
Inorganic Parameters

Results in mg/L unless noted

<u>Parameter</u>	<u>Metro Water Services</u>	<u>Range of Detection</u>	<u>MCL</u>
Antimony - total	waived*		0.006
Arsenic	waived*		0.05
Asbestos * *	<0.09	not detected	7 million fibers / L
Barium	waived*		2
Beryllium - total	waived*		0.004
Cadmium	waived*		0.005
Chromium	waived*		0.1
Cyanide	waived*		0.2
Fluoride	0.63	0.53 - 0.74	4
Lead	<0.0001	<0.0001 - 0.0001	0.015 (action level)
Mercury	waived*		0.002
Nickel	waived*		0.1
Nitrate	0.483	0.478 - 0.493	10
Nitrite	<0.005	not detected	1
Selenium	waived*		0.05
Thallium - total	waived*		0.002

**** Analyzed 2/10/2020**

Secondary Standards

Results in mg/L unless noted

<u>Parameter</u>	<u>Metro Water Services</u>	<u>Range of Detection</u>	<u>MCL</u>
Chloride	9.4	6.37 - 13.3	250
Color	<2.0	not detected	15 (Color Units)
Copper	0.0006	<0.0001 - 0.0026	1.3 (action level)
MBAS	<0.025	not detected	0.5
Iron	waived*		0.3
Manganese	waived*		0.05
Sulfate	28.5	21.9 - 41.6	250
Total Dissolved Solids	126	117 - 157	500
Zinc	waived*		5
Odor (Threshold odor #)	<1.0	not detected	3 (TON)
pH	7.11	6.86 - 7.63	6.5 to 8.5 (Std Units)
Silver	waived*		0.1
Aluminum	waived*		0.2

waived* = Nine (9) year reduced monitoring waiver granted by TDEC due to historically low risk of possible contaminate presence in MWS drinking water

Trihalomethanes

Results in µg/L Sampled Quarterly

<u>Parameter</u>	<u>Metro Water Services</u>	<u>Range of Detection</u>	<u>MCL</u>
Trichloromethane (Chloroform)	7.9	7.2 - 8.8	N/A
Bromodichloromethane	2.4	1.5 - 3.6	N/A
Dibromochloromethane	<1.0	<1.0 - 1.0	N/A
Tribromomethane (Bromoform)	<1.0	not detected	N/A
Total Trihalomethanes (THM's)	10.5	9.2 - 12.9	80

Haloacetic Acids

Results in µg/L Sampled Quarterly

<u>Parameter</u>	<u>Metro Water Services</u>	<u>Range of Detection</u>	<u>MCL</u>
Monochloroacetic Acid	<2.0	not detected	N/A
Dichloroacetic Acid	4.3	3.5 - 5.3	N/A
Trichloroacetic Acid	3.4	2.6 - 4.1	N/A
Monobromoacetic Acid	<1.0	not detected	N/A
Dibromoacetic Acid	<1.0	not detected	N/A
Total Haloacetic Acids (HAA's)	7.7	5.7 - 9.4	60

Organic Parameters

4/18/18 Results in mg/L

Regulated Pesticides

<u>Parameter</u>	<u>Metro Water Services</u>	<u>Range of Detection</u>	<u>MCL</u>
Atrazine	<0.000022	not detected	0.003

Organic Parameters

4/18/18 Results in mg/L

Regulated Herbicides

<u>Parameter</u>	<u>Metro Water Services</u>	<u>Range of Detection</u>	<u>MCL</u>
Simazine	<0.00007	not detected	0.004
Picloram	<0.00010	not detected	0.500
Alachlor (Lasso)	<0.00020	not detected	0.002

Sampling date: 6/5/2020

2,4-D	<0.00010	not detected	0.070
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Radiochemical Parameters

Analyzed 2/9/16

<u>Parameter</u>	<u>Metro Water Services</u>	<u>Range of Detection</u>	<u>MCL</u>
Gross Alpha	<3.0 pci/L	not detected	15 pci / L
Radium - 226 / 228	<0.46 / 1.01 pci/L		3 / 5 pci / L

Miscellaneous

Results in mg/L unless noted

<u>Parameter</u>	<u>Metro Water Services</u>	<u>Range of Detection</u>	<u>MCL</u>
Sodium	6.5	5.7 - 7.8	not established
Hardness (Calcium)	62.2	49.6 - 88.2	not established
Alkalinity	57	40.5 - 76.3	not established
Temperature	18.9	10.8 - 29.5	not established
Langlier Index	(-)1.1	(-)0.9 - (-)1.4	not established
Aggressive Index	10.7	10.3 - 11.1	not established

Volatile Organic Chemicals

2/19/2020

Regulated

<u>Parameter</u>		<u>Range of Detection</u>	<u>MCL</u>
Benzene	<0.0005	not detected	0.005
Carbon Tetrachloride	<0.0005	not detected	0.005
Para - Dichlorobenzene	<0.0005	not detected	0.075
1,2 - Dichloroethane	<0.0005	not detected	0.005
1,1 - Dichloroethylene	<0.0005	not detected	0.007
1,1,1 - Trichloroethane	<0.0005	not detected	0.20
Trichloroethylene	<0.0005	not detected	0.005
Vinyl Chloride	<0.0005	not detected	0.002
cis -1,2 - Dichloroethylene	<0.0005	not detected	0.07
Dichloromethane	<0.0005	not detected	0.005
1,2 - Dichloropropane	<0.0005	not detected	0.005
Ethylbenzene	<0.0005	not detected	0.7
Monochlorobenzene	<0.0005	not detected	0.1
o - Dichlorobenzene	<0.0005	not detected	0.6
Styrene	<0.0005	not detected	0.1
Tetrachloroethylene	<0.0005	not detected	0.005
Toluene	<0.0005	not detected	1
trans - 1,2 - Dichloroethylene	<0.0005	not detected	0.1
Xylenes (total)	<0.0005	not detected	10
1,2,4 - Trichlorobenzene	<0.0005	not detected	0.07
1,1,2 - Trichloroethane	<0.0005	not detected	0.005

Volatile Organic Chemicals

2/19/2020

Unregulated

<u>Parameter</u>		<u>Range of Detection</u>	<u>MCL</u>
Bromobenzene	<0.0005	not detected	none
Bromodichloromethane	1.2	1.1 - 1.3	none
Tribromomethane (Bromoform)	<0.0005	not detected	none
Bromomethane	<0.0005	not detected	none
Chlorodibromomethane	<0.0005	not detected	none
Chloroethane	<0.0005	not detected	none
Trichloromethane (Chloroform)	3.8	3.7 - 3.9	none
Chloromethane	<0.0005	not detected	none
o - Chlorotoluene	<0.0005	not detected	none
p - Chlorotoluene	<0.0005	not detected	none
Dibromomethane	<0.0005	not detected	none
m - Dichlorobenzene	<0.0005	not detected	none
1,1 - Dichloroethane	<0.0005	not detected	none
1,3 - Dichloropropane	<0.0005	not detected	none
2,2 - Dichloropropane	<0.0005	not detected	none
1,1 - Dichloropropene	<0.0005	not detected	none
1,3 - Dichloropropene	<0.0005	not detected	none
1,1,1,2 - Tetrachloroethane	<0.0005	not detected	none
1,1,2,2 - Tetrachloroethane	<0.0005	not detected	none
1,2,3 - Trichloropropane	<0.0005	not detected	none