

## WSSC TAP WATER ANALYSIS - 2021

### PATUXENT WATER FILTRATION PLANT

PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT <sup>11</sup>
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#### GENERAL WATER QUALITY

Alkalinity	mg/L	34	43	27	
Color	Units	0	5	0	15 (SMCL)
Hardness	mg/L	64	75	55	
pH	S.U.	7.9	7.5	7.2	6.5-8.5 (SMCL)
Specific Conductance	MicroSiemens/cm	235	306	202	
Temperature	° C	18	28	5.0	
Threshold Odor	Units	1.0	2	1.0	3 (SMCL) TT=1 NTU; <0.3 NTU 95% of time
Turbidity <sup>1</sup>	NTU	0.05	0.16	0.05	
Geosmin	ng/L	2.4	7	n/d	
2-Methylisoborneol	ng/L	2.0	10	n/d	

#### METALS

Aluminum	mg/L	0.02	0.03	0.01	0.2 (SMCL)
Antimony	µg/L	n/d	n/d	n/d	6
Arsenic	µg/L	n/d	n/d	n/d	10
Barium	mg/L	0.03	0.03	0.02	2
Beryllium	µg/L	n/d	n/d	n/d	4
Cadmium	µg/L	n/d	n/d	n/d	5
Calcium	mg/L	17	22	15	
Total Chromium	µg/L	n/d	n/d	n/d	100
Copper	mg/L	0.01	0.04	0.003	
Iron	mg/L	n/d	n/d	n/d	0.3 (SMCL)
Lead	µg/L	n/d	n/d	n/d	
Manganese	µg/L	<2	8.6	n/d	50 (SMCL)
Mercury	µg/L	n/d	n/d	n/d	2
Nickel	µg/L	n/d	n/d	n/d	
Selenium	µg/L	n/d	n/d	n/d	50
Sodium	mg/L	18	30	14	
Thallium	µg/L	n/d	n/d	n/d	2

#### INORGANICS

Chloride	mg/L	43	67	34	250 (SMCL)
Residual Chlorine	mg/L	1.2	1.7	0.4	TT=>0.2
Fluoride	mg/L	0.6	0.7	0.5	4 (SMCL=2)
Nitrate	mg/L	1.0	1.6	0.5	10
Nitrite	mg/L	n/d	n/d	n/d	1
Sulfate	mg/L	6	6.9	4.9	250 (SMCL)

#### DISINFECTION BYPRODUCT PRECURSOR

Total Organic Carbon	mg/L	Meets Treatment Technique (TT) Requirements			TT
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#### ORGANICS

Haloacetic Acids (HAA5)	µg/L	19	26	12	
Total Trihalomethanes (TTHMs)	µg/L	21	32	11	

#### PESTICIDES & SYNTHETIC ORGANIC CHEMICALS (SOCs)

2,3,7,8-TCDD (Dioxin)	pg/L	n/d	n/d	n/d	30
2,4,5 TP (Silvex)	µg/L	n/d	n/d	n/d	50
2,4-D	µg/L	n/d	n/d	n/d	70
3-Hydroxycarbofuran	µg/L	n/d	n/d	n/d	
Alachlor	µg/L	n/d	n/d	n/d	2
Aldicarb	µg/L	n/d	n/d	n/d	3
Aldicarb sulfone	µg/L	n/d	n/d	n/d	2
Aldicarb sulfoxide	µg/L	n/d	n/d	n/d	4

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Aldrin	µg/L	n/d	n/d	n/d	
Atrazine	µg/L	n/d	n/d	n/d	3
Benzo(a)pyrene	µg/L	n/d	n/d	n/d	0.2
Butachlor	µg/L	n/d	n/d	n/d	
Carbaryl	µg/L	n/d	n/d	n/d	
Carbofuran	µg/L	n/d	n/d	n/d	40
Chlorinated biphenyls (PCBs)	µg/L	n/d	n/d	n/d	0.5
Chlordane	µg/L	n/d	n/d	n/d	2
Dalapon	µg/L	n/d	n/d	n/d	200
Dibromochloropropane (DBCP)	µg/L	n/d	n/d	n/d	0.2
Dicamba	µg/L	n/d	n/d	n/d	
Dieldrin	µg/L	n/d	n/d	n/d	
Di(2-ethylhexyl)adipate	µg/L	n/d	n/d	n/d	400
Di(2-ethylhexyl)phthalate	µg/L	n/d	n/d	n/d	6
Dinoseb	µg/L	n/d	n/d	n/d	7
Diquat	µg/L	n/d	n/d	n/d	20
1,2-Dibromoethane (EDB)	µg/L	n/d	n/d	n/d	0.05
Endothall	µg/L	n/d	n/d	n/d	100
Endrin	µg/L	n/d	n/d	n/d	2
Glyphosate	µg/L	n/d	n/d	n/d	700
Heptachlor	µg/L	n/d	n/d	n/d	0.4
Heptachlor epoxide	µg/L	n/d	n/d	n/d	0.2
Hexachlorobenzene	µg/L	n/d	n/d	n/d	1
Hexachlorocyclopentadiene	µg/L	n/d	n/d	n/d	50
Lindane	µg/L	n/d	n/d	n/d	0.2
Metolachlor	µg/L	n/d	n/d	n/d	
Methomyl	µg/L	n/d	n/d	n/d	
Methoxychlor	µg/L	n/d	n/d	n/d	40
Metribuzin	µg/L	n/d	n/d	n/d	
Oxamyl (vydate)	µg/L	n/d	n/d	n/d	200
Pentachlorophenol (PCP)	µg/L	n/d	n/d	n/d	1
Picloram	µg/L	n/d	n/d	n/d	500
Propachlor	µg/L	n/d	n/d	n/d	
Simazine	µg/L	n/d	n/d	n/d	4
Toxaphene	µg/L	n/d	n/d	n/d	3

**VOLATILE ORGANIC CHEMICALS (VOCs)**

1,1,1-Trichloroethane	µg/L	n/d	n/d	n/d	200
1,1,2-Trichloroethane	µg/L	n/d	n/d	n/d	5
1,1-Dichloroethene	µg/L	n/d	n/d	n/d	7
1,2,4-Trichlorobenzene	µg/L	n/d	n/d	n/d	70
1,2-Dichlorobenzene	µg/L	n/d	n/d	n/d	600
1,2-Dichloroethane	µg/L	n/d	n/d	n/d	5
1,2-Dichloropropane	µg/L	n/d	n/d	n/d	5
1,4-Dichlorobenzene	µg/L	n/d	n/d	n/d	75
Benzene	µg/L	n/d	n/d	n/d	5
Carbon Tetrachloride	µg/L	n/d	n/d	n/d	5
Chlorobenzene	µg/L	n/d	n/d	n/d	100
cis -1,2-Dichloroethene	µg/L	n/d	n/d	n/d	70
Dichloromethane	µg/L	n/d	n/d	n/d	5
Ethylbenzene	µg/L	n/d	n/d	n/d	700
Total Xylenes	µg/L	n/d	n/d	n/d	10000
Styrene	µg/L	n/d	n/d	n/d	100
Tetrachloroethene	µg/L	n/d	n/d	n/d	5
Toluene	µg/L	n/d	n/d	n/d	1000
trans -1,2-Dichloroethene	µg/L	n/d	n/d	n/d	100

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Trichloroethene	µg/L	n/d	n/d	n/d	5
Vinyl Chloride	µg/L	n/d	n/d	n/d	2
1,1,1,2-Tetrachloroethane	µg/L	n/d	n/d	n/d	
1,1,2,2-Tetrachloroethane	µg/L	n/d	n/d	n/d	
1,1-Dichloroethane	µg/L	n/d	n/d	n/d	
1,1-Dichloropropene	µg/L	n/d	n/d	n/d	
1,2,3-Trichlorobenzene	µg/L	n/d	n/d	n/d	
1,2,3-Trichloropropane	µg/L	n/d	n/d	n/d	
1,2,4-Trimethylbenzene	µg/L	n/d	n/d	n/d	
1,3,5-Trimethylbenzene	µg/L	n/d	n/d	n/d	
1,3-Dichlorobenzene	µg/L	n/d	n/d	n/d	
1,3-Dichloropropane	µg/L	n/d	n/d	n/d	
2,2-Dichloropropane	µg/L	n/d	n/d	n/d	
2-Chlorotoluene	µg/L	n/d	n/d	n/d	
4-Chlorotoluene	µg/L	n/d	n/d	n/d	
Bromobenzene	µg/L	n/d	n/d	n/d	
Bromochloromethane	µg/L	n/d	n/d	n/d	
Bromomethane	µg/L	n/d	n/d	n/d	
Chloroethane	µg/L	n/d	n/d	n/d	
Chloromethane	µg/L	n/d	n/d	n/d	
<i>cis</i> -1,3-Dichloropropene	µg/L	n/d	n/d	n/d	
Dibromomethane	µg/L	n/d	n/d	n/d	
Dichlorodifluoromethane	µg/L	n/d	n/d	n/d	
Hexachlorobutadiene	µg/L	n/d	n/d	n/d	
Isopropylbenzene	µg/L	n/d	n/d	n/d	
n-Butylbenzene	µg/L	n/d	n/d	n/d	
n-Propylbenzene	µg/L	n/d	n/d	n/d	
Naphthalene	µg/L	n/d	n/d	n/d	
p-Isopropyltoluene	µg/L	n/d	n/d	n/d	
s-Butylbenzene	µg/L	n/d	n/d	n/d	
t-Butylbenzene	µg/L	n/d	n/d	n/d	
<i>trans</i> -1,3-Dichloropropene	µg/L	n/d	n/d	n/d	
Trichlorofluoromethane	µg/L	n/d	n/d	n/d	
Nitrobenzene	µg/L	n/d	n/d	n/d	
Methyl-tert-butyl-ether	µg/L	n/d	n/d	n/d	

**RADIONUCLIDES**

Gross Alpha	pCi/L	<2	2	n/d	15
Gross Beta	pCi/L	<4	7.8	n/d	50 <sup>2</sup>
Radium 228	pCi/L	0.1	0.2	n/d	5 <sup>3</sup>
Tritium	pCi/L	n/d	n/d	n/d	

**CUSTOMER TAP <sup>4</sup>**

<b>PARAMETER</b>	<b>UNIT OF MEASURE</b>	<b>90th PERCENTILE <sup>5</sup></b>	<b># of SITES ABOVE AL</b>	<b>EPA ACTION LEVEL (AL)</b>
Copper	mg/L	0.12	0 of 55	1.3
Lead	µg/L	<1.0	0 of 55	15

**DISTRIBUTION SYSTEM**

<b>PARAMETER</b>	<b>UNIT OF MEASURE</b>	<b>YEARLY AVERAGE</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>	<b>EPA LIMIT <sup>11</sup></b>
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**BACTERIOLOGICAL**

Samples Total Coliform Positive	%/month	0.02	0.27	0	5
Samples <i>E. coli</i> Positive	%/month	0	0	0	
No. of <i>E. coli</i> Positive Routine Samples	Count	0	0	0	

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### DISTRIBUTION SYSTEM

PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT <sup>11</sup>
No. of <i>E. coli</i> Positive Repeat Samples	Count	0	0	0	0

#### **DISINFECTANT & DISINFECTION BYPRODUCTS**

Residual Chlorine	mg/L	1.2	3.4	0.09 <sup>7</sup>	4 <sup>8</sup>
Haloacetic Acids (HAA5)	µg/L	45 <sup>9</sup>	75	14	60 <sup>10</sup>
Total Trihalomethanes (TTHMs)	µg/L	66 <sup>9</sup>	113	15	80 <sup>10</sup>

#### **LEGENDS**

n/d - not detected

mg/L - milligrams per liter, equal to parts per million (ppm). The equivalent of one minute in 2 years or one penny in \$10,000.

µg/L - micrograms per liter, equal to parts per billion (ppb). The equivalent of one minute in 2,000 years or one penny in \$10 million.

ng/L - nanograms per liter, equal to parts per trillion (ppt). The equivalent of one minute in 2,000,000 years or one penny in \$10 billion.

pg/L - picograms per liter, equal to parts per quadrillion (ppq). The equivalent of one minute in 2,000,000,000 years or one penny in \$10 trillion.

pCi/L - picocuries per liter ( a measure of radiation)

S.U. - Standard Unit

NTU - Nephelometric Turbidity Unit

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

AL - Action level. The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

= equals

< less than

<sup>1</sup> - Filtered water, maximum of measurements taken every 15 minutes.

<sup>2</sup> - EPA considers 50 pCi/L to be the level of concern for beta particles.

<sup>3</sup> - The EPA limit of 5 pCi/L applies to combined Radium 226 and 228.

<sup>4</sup> - Most recent required sampling, between June and September 2020

<sup>5</sup> - If more than 10% of sites exceed action level, system is required to take additional steps to control corrosiveness of their water.

<sup>6</sup> - Highest running annual average (RAA)

<sup>7</sup> - All samples deemed to have detectable disinfectant residual.

<sup>8</sup> - Maximum residual disinfectant level (MRDL), the highest level of a disinfectant allowed in drinking water; based on RAA.

<sup>9</sup> - Highest locational running annual average (LRAA)

<sup>10</sup> - Maximum contaminant level based on LRAA.

<sup>11</sup> - Shown as maximum contaminant levels (MCL) unless otherwise noted as secondary MCLs (SMCL). MCLs are enforceable health-based standards, whereas SMCLs are non-enforceable guidelines for contaminants that may cause aesthetic effects in drinking water.

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<b>PARAMETER</b>	<b>UNIT OF MEASURE</b>	<b>YEARLY AVERAGE</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>	<b>EPA LIMIT <sup>11</sup></b>
<b><u>GENERAL WATER QUALITY</u></b>					
Alkalinity	mg/L	77	98	47	
Color	Units	0	2	0	15 (SMCL)
Hardness	mg/L	142	183	68	
pH	S.U.	7.4	8.0	7.2	6.5-8.5 (SMCL)
Specific Conductance	MicroSiemens/cm	420	1110	242	
Temperature	° C	16	30	1.7	
Threshold Odor	Units	1.0	1.2	1.0	3 (SMCL)
Turbidity <sup>1</sup>	NTU	0.05	0.16	0.02	TT=1 NTU; <0.3 NTU 95% of time
<b><u>METALS</u></b>					
Aluminum	mg/L	0.02	0.08	0.01	0.2 (SMCL)
Antimony	µg/L	n/d	n/d	n/d	6
Arsenic	µg/L	n/d	n/d	n/d	10
Barium	mg/L	0.03	0.04	0.03	2
Beryllium	µg/L	n/d	n/d	n/d	4
Cadmium	µg/L	n/d	n/d	n/d	5
Calcium	mg/L	43	53	24	
Total Chromium	µg/L	n/d	n/d	n/d	100
Copper	mg/L	<0.002	0.002	n/d	
Iron	mg/L	<0.002	0.18	n/d	0.3 (SMCL)
Lead	µg/L	n/d	n/d	n/d	
Manganese	µg/L	<2.0	2.4	n/d	50 (SMCL)
Mercury	µg/L	n/d	n/d	n/d	2
Nickel	µg/L	<0.002	0.002	n/d	
Selenium	µg/L	n/d	n/d	n/d	50
Sodium	mg/L	22	38	16	
Thallium	µg/L	n/d	n/d	n/d	2
<b><u>INORGANICS</u></b>					
Chloride	mg/L	56	239	34	250 (SMCL)
Residual Chlorine	mg/L	1.8	2.4	1.2	TT=>0.2
Fluoride	mg/L	0.8	0.9	0.6	4 (SMCL=2)
Nitrate	mg/L	1.5	2.1	0.5	10
Nitrite	mg/L	n/d	n/d	n/d	1
Sulfate	mg/L	41	64	27.0	250 (SMCL)
<b><u>DISINFECTION BYPRODUCT PRECURSOR</u></b>					
Total Organic Carbon	mg/L	Meets Treatment Technique (TT) Requirements			TT
<b><u>ORGANICS</u></b>					
Haloacetic Acids (HAA5)	µg/L	20	45	8.7	
Total Trihalomethanes (TTHMs)	µg/L	20	44	7.4	
<b><u>PESTICIDES &amp; SYNTHETIC ORGANIC CHEMICALS (SOCs)</u></b>					
2,3,7,8-TCDD (Dioxin)	pg/L	n/d	n/d	n/d	30
2,4,5 TP (Silvex)	µg/L	n/d	n/d	n/d	50
2,4-D	µg/L	n/d	n/d	n/d	70
3-Hydroxycarbofuran	µg/L	n/d	n/d	n/d	
Alachlor	µg/L	n/d	n/d	n/d	2
Aldicarb	µg/L	n/d	n/d	n/d	3
Aldicarb sulfone	µg/L	n/d	n/d	n/d	2
Aldicarb sulfoxide	µg/L	n/d	n/d	n/d	4
Aldrin	µg/L	n/d	n/d	n/d	
Atrazine	µg/L	n/d	n/d	n/d	3

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Benzo(a)pyrene	µg/L	n/d	n/d	n/d	0.2
Butachlor	µg/L	n/d	n/d	n/d	
Carbaryl	µg/L	n/d	n/d	n/d	
Carbofuran	µg/L	n/d	n/d	n/d	40
Chlorinated biphenyls (PCBs)	µg/L	n/d	n/d	n/d	0.5
Chlordane	µg/L	n/d	n/d	n/d	2
Dalapon	µg/L	n/d	n/d	n/d	200
Dibromochloropropane (DBCP)	µg/L	n/d	n/d	n/d	0.2
Dicamba	µg/L	n/d	n/d	n/d	
Dieldrin	µg/L	n/d	n/d	n/d	
Di(2-ethylhexyl)adipate	µg/L	n/d	n/d	n/d	400
Di(2-ethylhexyl)phthalate	µg/L	n/d	n/d	n/d	6
Dinoseb	µg/L	n/d	n/d	n/d	7
Diquat	µg/L	n/d	n/d	n/d	20
1,2-Dibromoethane (EDB)	µg/L	n/d	n/d	n/d	0.05
Endothall	µg/L	n/d	n/d	n/d	100
Endrin	µg/L	n/d	n/d	n/d	2
Glyphosate	µg/L	n/d	n/d	n/d	700
Heptachlor	µg/L	n/d	n/d	n/d	0.4
Heptachlor epoxide	µg/L	n/d	n/d	n/d	0.2
Hexachlorobenzene	µg/L	n/d	n/d	n/d	1
Hexachlorocyclopentadiene	µg/L	n/d	n/d	n/d	50
Lindane	µg/L	n/d	n/d	n/d	0.2
Metolachlor	µg/L	n/d	n/d	n/d	
Methomyl	µg/L	n/d	n/d	n/d	
Methoxychlor	µg/L	n/d	n/d	n/d	40
Metribuzin	µg/L	n/d	n/d	n/d	
Oxamyl (vydate)	µg/L	n/d	n/d	n/d	200
Pentachlorophenol (PCP)	µg/L	n/d	n/d	n/d	1
Picloram	µg/L	n/d	n/d	n/d	500
Propachlor	µg/L	n/d	n/d	n/d	
Simazine	µg/L	n/d	n/d	n/d	4
Toxaphene	µg/L	n/d	n/d	n/d	3
		n/d	n/d	n/d	
		n/d	n/d	n/d	
<b><u>VOLATILE ORGANIC CHEMICALS (VOCs)</u></b>					
1,1,1-Trichloroethane	µg/L	n/d	n/d	n/d	200
1,1,2-Trichloroethane	µg/L	n/d	n/d	n/d	5
1,1-Dichloroethene	µg/L	n/d	n/d	n/d	7
1,2,4-Trichlorobenzene	µg/L	n/d	n/d	n/d	70
1,2-Dichlorobenzene	µg/L	n/d	n/d	n/d	600
1,2-Dichloroethane	µg/L	n/d	n/d	n/d	5
1,2-Dichloropropane	µg/L	n/d	n/d	n/d	5
1,4-Dichlorobenzene	µg/L	n/d	n/d	n/d	75
Benzene	µg/L	n/d	n/d	n/d	5
Carbon Tetrachloride	µg/L	n/d	n/d	n/d	5
Chlorobenzene	µg/L	n/d	n/d	n/d	100
cis -1,2-Dichloroethene	µg/L	n/d	n/d	n/d	70
Dichloromethane	µg/L	n/d	n/d	n/d	5
Ethylbenzene	µg/L	n/d	n/d	n/d	700
Total Xylenes	µg/L	n/d	n/d	n/d	10000
Styrene	µg/L	n/d	n/d	n/d	100
Tetrachloroethene	µg/L	n/d	n/d	n/d	5
Toluene	µg/L	n/d	n/d	n/d	1000
trans -1,2-Dichloroethene	µg/L	n/d	n/d	n/d	100
Trichloroethene	µg/L	n/d	n/d	n/d	5
Vinyl Chloride	µg/L	n/d	n/d	n/d	2

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1,1,1,2-Tetrachloroethane	µg/L	n/d	n/d	n/d	
1,1,2,2-Tetrachloroethane	µg/L	n/d	n/d	n/d	
1,1-Dichloroethane	µg/L	n/d	n/d	n/d	
1,1-Dichloropropene	µg/L	n/d	n/d	n/d	
1,2,3-Trichlorobenzene	µg/L	n/d	n/d	n/d	
1,2,3-Trichloropropane	µg/L	n/d	n/d	n/d	
1,2,4-Trimethylbenzene	µg/L	n/d	n/d	n/d	
1,3,5-Trimethylbenzene	µg/L	n/d	n/d	n/d	
1,3-Dichlorobenzene	µg/L	n/d	n/d	n/d	
1,3-Dichloropropane	µg/L	n/d	n/d	n/d	
2,2-Dichloropropane	µg/L	n/d	n/d	n/d	
2-Chlorotoluene	µg/L	n/d	n/d	n/d	
4-Chlorotoluene	µg/L	n/d	n/d	n/d	
Bromobenzene	µg/L	n/d	n/d	n/d	
Bromochloromethane	µg/L	n/d	n/d	n/d	
Bromomethane	µg/L	n/d	n/d	n/d	
Chloroethane	µg/L	n/d	n/d	n/d	
Chloromethane	µg/L	n/d	n/d	n/d	
<i>cis</i> -1,3-Dichloropropene	µg/L	n/d	n/d	n/d	
Dibromomethane	µg/L	n/d	n/d	n/d	
Dichlorodifluoromethane	µg/L	n/d	n/d	n/d	
Hexachlorobutadiene	µg/L	n/d	n/d	n/d	
Isopropylbenzene	µg/L	n/d	n/d	n/d	
n-Butylbenzene	µg/L	n/d	n/d	n/d	
n-Propylbenzene	µg/L	n/d	n/d	n/d	
Naphthalene	µg/L	n/d	n/d	n/d	
p-Isopropyltoluene	µg/L	n/d	n/d	n/d	
s-Butylbenzene	µg/L	n/d	n/d	n/d	
t-Butylbenzene	µg/L	n/d	n/d	n/d	
<i>trans</i> -1,3-Dichloropropene	µg/L	n/d	n/d	n/d	
Trichlorofluoromethane	µg/L	n/d	n/d	n/d	
Nitrobenzene	µg/L	n/d	n/d	n/d	
Methyl-tert-butyl-ether	µg/L	n/d	n/d	n/d	
		n/d	n/d	n/d	
<b><u>RADIONUCLIDES</u></b>					
Gross Alpha	pCi/L	<2	3.4	n/d	15
Gross Beta	pCi/L	<4	7.3	n/d	50 <sup>2</sup>
Radium 228	pCi/L	0.3	0.5	n/d	5 <sup>3</sup>
Tritium	pCi/L	n/d	n/d	n/d	

<b>CUSTOMER TAP <sup>4</sup></b>				
<b>PARAMETER</b>	<b>UNIT OF MEASURE</b>	<b>90th PERCENTILE <sup>5</sup></b>	<b># of SITES ABOVE AL</b>	<b>EPA ACTION LEVEL (AL)</b>
Copper	mg/L	0.12	0 of 55	1.3
Lead	µg/L	<1.0	0 of 55	15

<b>DISTRIBUTION SYSTEM</b>					
<b>PARAMETER</b>	<b>UNIT OF MEASURE</b>	<b>YEARLY AVERAGE</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>	<b>EPA LIMIT <sup>11</sup></b>
<b><u>BACTERIOLOGICAL</u></b>					
Samples Total Coliform Positive	%/month	0.02	0.27	0	5
Samples <i>E. coli</i> Positive	%/month	0	0	0	
No. of <i>E. coli</i> Positive Routine Samples	Count	0	0	0	
No. of <i>E. coli</i> Positive Repeat Samples	Count	0	0	0	0
<b>DISTRIBUTION SYSTEM</b>					

## WSSC TAP WATER ANALYSIS - 2021

PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT <sup>11</sup>
<b><u>DISINFECTANT &amp; DISINFECTION BYPRODUCTS</u></b>					
Residual Chlorine	mg/L	1.2	3.4	0.09 <sup>7</sup>	4 <sup>8</sup>
Haloacetic Acids (HAA5)	µg/L	45 <sup>9</sup>	75	14	60 <sup>10</sup>
Total Trihalomethanes (TTHMs)	µg/L	66 <sup>9</sup>	113	15	80 <sup>10</sup>

### **LEGENDS**

n/d - not detected

mg/L - milligrams per liter, equal to parts per million (ppm). The equivalent of one minute in 2 years or one penny in \$10,000.

µg/L - micrograms per liter, equal to parts per billion (ppb). The equivalent of one minute in 2,000 years or one penny in \$10 million.

ng/L - nanograms per liter, equal to parts per trillion (ppt). The equivalent of one minute in 2,000,000 years or one penny in \$10 billion.

pg/L - picograms per liter, equal to parts per quadrillion (ppq). The equivalent of one minute in 2,000,000,000 years or one penny in \$10 trillion.

pCi/L - picocuries per liter ( a measure of radiation)

S.U. - Standard Unit

NTU - Nephelometric Turbidity Unit

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

AL - Action level. The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

= equals

< less than

<sup>1</sup> - Filtered water, maximum of measurements taken every 15 minutes.

<sup>2</sup> - EPA considers 50 pCi/L to be the level of concern for beta particles.

<sup>3</sup> - The EPA limit of 5 pCi/L applies to combined Radium 226 and 228.

<sup>4</sup> - Most recent required sampling, between June and September 2020

<sup>5</sup> - If more than 10% of sites exceed action level, system is required to take additional steps to control corrosiveness of their water.

<sup>6</sup> - Highest running annual average (RAA)

<sup>7</sup> - All samples deemed to have detectable disinfectant residual.

<sup>8</sup> - Maximum residual disinfectant level (MRDL), the highest level of a disinfectant allowed in drinking water; based on RAA.

<sup>9</sup> - Highest locational running annual average (LRAA)

<sup>10</sup> - Maximum contaminant level based on LRAA.

<sup>11</sup> - Shown as maximum contaminant levels (MCL) unless otherwise noted as secondary MCLs (SMCL). MCLs are enforceable health-based standards, whereas SMCLs are non-enforceable guidelines for contaminants that may cause aesthetic effects in drinking water.