

WSSC TAP WATER ANALYSIS - 2016

PATUXENT WATER FILTRATION PLANT					
PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹
<u>GENERAL WATER QUALITY</u>					
Alkalinity	mg/L	32	39	25	
Color	Units	0	10	0	15 (SMCL)
Hardness	mg/L	75	134	52	
pH	S.U.	7.4	7.9	6.9	6.5-8.5 (SMCL)
Specific Conductance	MicroSiemens/cm	215	254	188	
Temperature	° C	15.8	28.7	3.4	
Threshold Odor	Units	1.0	0.8	1.2	3 (SMCL)
Turbidity ¹	NTU	0.03	0.09	0.02	TT=1 NTU; <0.3 NTU 95% of time
Geosmin	ng/L	4.3	11.6	<2.0	
2-Methylisoborneol	ng/L	2.9	15.4	n/d	
<u>METALS</u>					
Aluminum	µg/L	21	147	9	200 (SMCL)
Antimony	µg/L	n/d	n/d	n/d	6
Arsenic	µg/L	0.79	19.70	n/d	10
Barium	mg/L	0.027	0.031	0.023	2
Beryllium	µg/L	n/d	n/d	n/d	4
Cadmium	µg/L	n/d	n/d	n/d	5
Calcium	mg/L	17.4	67.0	13.1	
Total Chromium	µg/L	n/d	<2	n/d	100
Copper	mg/L	0.014	0.021	0.010	
Iron	mg/L	<0.2	0.89	n/d	0.3 (SMCL)
Lead	µg/L	n/d	<2	n/d	
Magnesium	mg/L	5.0	16.0	4.2	
Manganese	µg/L	<2	<2	n/d	50 (SMCL)
Mercury	µg/L	n/d	n/d	n/d	2
Nickel	µg/L	<2	<2	n/d	
Potassium	mg/L	2.9	19.0	2.1	
Selenium	µg/L	n/d	<2	n/d	50
Silicon	mg/L	1.9	3.2	0.4	
Silver	µg/L	n/d	n/d	n/d	100 (SMCL)
Sodium	mg/L	15.3	46.0	10.8	
Thallium	µg/L	n/d	<1	n/d	2
Zinc	µg/L	<2	<2	n/d	5000 (SMCL)
<u>INORGANICS</u>					
Boron	mg/L	0.007	0.011	0.006	
Chloride	mg/L	38.0	51.6	32.0	250 (SMCL)
Residual Chlorine	mg/L	1.4	1.6	0.6	TT=>0.2
Fluoride	mg/L	0.68	0.84	0.27	4 (SMCL=2)
Nitrate	mg/L	1.0	1.6	0.3	10
Nitrite	mg/L	<0.05	<0.05	n/d	1
Phosphorus	mg/L	0.31	0.48	<0.2	
Sulfate	mg/L	5.4	7.1	4.3	250 (SMCL)
<u>DISINFECTION BYPRODUCT PRECURSOR</u>					
Total Organic Carbon	mg/L	1.6	5.1	1.0	TT
<u>ORGANICS</u>					
Haloacetic Acids (HAA5)	µg/L	18.0	25.4	12.6	
Total Trihalomethanes (TTHMs)	µg/L	19.5	35.7	10.2	
<u>PESTICIDES & SYNTHETIC ORGANIC CHEMICALS (SOCs)</u>					
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

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PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹
<u>PESTICIDES & SYNTHETIC ORGANIC CHEMICALS (SOCs)</u>					
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	<1	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	0.5	<1	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	2	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
<u>VOLATILE ORGANIC CHEMICALS (VOCs)</u>					
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

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PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹
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VOLATILE ORGANIC CHEMICALS (VOCs)

Tetrachloroethene	µg/L	n/d	n/d	n/d	5
Toluene	µg/L	n/d	n/d	n/d	1000
<i>trans</i> -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
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	3	6	<2.0	15
Gross Beta	pCi/L	4.8	6.0	<4.0	50 ²
Radium 228	pCi/L	<1.0	<1.0	<1	5 ³
Tritium	pCi/L	<100	<100	<2	

CUSTOMER TAP ⁴

PARAMETER	UNIT OF MEASURE	90th PERCENTILE ⁵	# of SITES ABOVE AL	EPA ACTION LEVEL (AL)
Copper	µg/L	87.4	0 samples	1300
Lead	µg/L	1.17	0 samples	15

DISTRIBUTION SYSTEM

PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹
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BACTERIOLOGICAL

Samples Total Coliform Positive	%/month	0.15	0.53	0	5
Samples <i>E. coli</i> Positive	%/month	0.02	0	0	

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DISTRIBUTION SYSTEM					
PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹
<u>BACTERIOLOGICAL</u>					
No. of <i>E. coli</i> Positive Routine Samples	Count	1	1	0	
No. of <i>E. coli</i> Positive Repeat Samples	Count	0	0	0	0
<u>DISINFECTANT & DISINFECTION BYPRODUCTS</u>					
Residual Chlorine	mg/L	1.41 ⁶	3.30	0.03 ⁷	4 ⁸
Haloacetic Acids (HAA5)	µg/L	42.0 ⁹	64.7	8.8	60 ¹⁰
Total Trihalomethanes (TTHMs)	µg/L	56.7 ⁹	101.3	13.4	80 ¹⁰

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

¹ - Filtered water, maximum of measurements taken every 15 minutes.

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

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

⁴ - Most recent required sampling, between June and September 2014.

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

⁶ - Highest running annual average (RAA)

⁷ - All samples deemed to have detectable disinfectant residual.

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

⁹ - Highest locational running annual average (LRAA)

¹⁰ - Maximum contaminant level based on LRAA.

¹¹ - 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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POTOMAC WATER FILTRATION PLANT					
PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹
<u>GENERAL WATER QUALITY</u>					
Alkalinity	mg/L	82	118	41	
Color	Units	1	4	0	15 (SMCL)
Hardness	mg/L	144	244	66	
pH	S.U.	7.4	7.6	7.1	6.5-8.5 (SMCL)
Specific Conductance	MicroSiemens/cm	401	908	228	
Temperature	° C	16.2	31.6	1.0	
Threshold Odor	Units	1.0	1.0	1.0	3 (SMCL)
Turbidity ¹	NTU	0.04	0.13	0.01	TT=1 NTU; <0.3 NTU 95% of time
<u>METALS</u>					
Aluminum	µg/L	37	181	11	200 (SMCL)
Antimony	µg/L	n/d	n/d	n/d	6
Arsenic	µg/L	0.82	17.00	n/d	10
Barium	mg/L	0.035	0.045	0.022	2
Beryllium	µg/L	n/d	n/d	n/d	4
Cadmium	µg/L	n/d	n/d	n/d	5
Calcium	mg/L	37.8	55.9	16.4	
Total Chromium	µg/L	n/d	<2	n/d	100
Copper	mg/L	0.002	0.003	0.002	
Iron	mg/L	<0.2	0.4	n/d	0.3 (SMCL)
Lead	µg/L	n/d	<2	n/d	
Magnesium	mg/L	9.5	15.3	4.7	
Manganese	µg/L	5	34	<2	50 (SMCL)
Mercury	µg/L	n/d	n/d	n/d	2
Nickel	µg/L	<2	<2	n/d	
Potassium	mg/L	3.3	5.3	2.1	
Selenium	µg/L	n/d	<2	n/d	50
Silicon	mg/L	2.2	3.9	0.3	
Silver	µg/L	n/d	n/d	n/d	100 (SMCL)
Sodium	mg/L	22.9	79.0	11.0	
Thallium	µg/L	n/d	<1	n/d	2
Zinc	µg/L	<2	<2	n/d	5000 (SMCL)
<u>INORGANICS</u>					
Boron	mg/L	0.025	0.045	0.011	
Chloride	mg/L	50.0	165.0	30.7	250 (SMCL)
Residual Chlorine	mg/L	1.7	0.8	2.4	TT=>0.2
Fluoride	mg/L	0.68	1.03	0.54	4 (SMCL=2)
Nitrate	mg/L	1.2	2.7	0.3	10
Nitrite	mg/L	<0.05	<0.05	n/d	1
Phosphorus	mg/L	0.24	0.35	n/d	
Sulfate	mg/L	41.5	73.7	7.9	250 (SMCL)
<u>DISINFECTION BYPRODUCT PRECURSOR</u>					
Total Organic Carbon	mg/L	1.9	4.0	1.1	TT
<u>ORGANICS</u>					
Haloacetic Acids (HAA5)	µg/L	14.7	28.9	7.1	
Total Trihalomethanes (TTHMs)	µg/L	16.0	32.9	5.5	
<u>PESTICIDES & SYNTHETIC ORGANIC CHEMICALS (SOCs)</u>					
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

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<u>PESTICIDES & SYNTHETIC ORGANIC CHEMICALS (SOCs)</u>					
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
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	<1	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	<2	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
<u>VOLATILE ORGANIC CHEMICALS (VOCs)</u>					
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
<i>cis</i> -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

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PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹

VOLATILE ORGANIC CHEMICALS (VOCs)

<i>trans</i> -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
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	3.0	6.0	<2.0	15
Gross Beta	pCi/L	28.33	<100	<4.0	50 ²
Radium 228	pCi/L	<1.0	<1.0	<0.8	5 ³
Tritium	pCi/L	<100	<100	<100	

CUSTOMER TAP ⁴

PARAMETER	UNIT OF MEASURE	90th PERCENTILE ⁵	# of SITES ABOVE AL	EPA ACTION LEVEL (AL)
Copper	µg/L	87.4	0 samples	1300
Lead	µg/L	1.17	0 samples	15

DISTRIBUTION SYSTEM

PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹
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BACTERIOLOGICAL

Samples Total Coliform Positive	%/month	0.15	0.53	0	5
Samples <i>E. coli</i> Positive	%/month	0.02	0.26	0	

WSSC TAP WATER ANALYSIS - 2016

DISTRIBUTION SYSTEM					
PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹

BACTERIOLOGICAL

No. of E. coli Positive Routine Samples	Count	1	1	0	
No. of E. coli Positive Repeat Samples	Count	0	0	0	0

DISINFECTANT & DISINFECTION BYPRODUCTS

Residual Chlorine	mg/L	1.41 ⁶	3.30	0.03 ⁷	4 ⁸
Haloacetic Acids (HAA5)	µg/L	42.0 ⁹	64.7	8.8	60 ¹⁰
Total Trihalomethanes (TTHMs)	µg/L	56.7 ⁹	101.3	13.4	80 ¹⁰

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

¹ - Filtered water, maximum of measurements taken every 15 minutes.

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

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

⁴ - Most recent required sampling, between June and September 2014.

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

⁶ - Highest running annual average (RAA)

⁷ - All samples deemed to have detectable disinfectant residual.

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

⁹ - Highest locational running annual average (LRAA)

¹⁰ - Maximum contaminant level based on LRAA.

¹¹ - 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.