

## WSSC TAP WATER ANALYSIS - 2023

PATUXENT WATER FILTRATION PLANT					
PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT <sup>11</sup>
<b><u>GENERAL WATER QUALITY</u></b>					
Alkalinity	mg/L	37	47	29	
Color	Units	0	0	0	15 (SMCL)
Hardness	mg/L	65	77	53	
pH	S.U.	7.5	8.1	7.2	6.5-8.5 (SMCL)
Specific Conductance	MicroSiemens/cm	259	15860	180	
Temperature	° C	17	28	6.0	
Threshold Odor	Units	1.0	3.5	1.0	3 (SMCL)
Turbidity <sup>1</sup>	NTU	0.03	0.09	0.02	TT=1 NTU; <0.3 NTU 95% of time
Geosmin	ng/L	2.7	6.7	0	
2-Methylisoborneol	ng/L	0.9	8.9	0	
<b><u>METALS</u></b>					
Aluminum	mg/L	0.02	0.04	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	17.5	21.3	14.2	
Total Chromium	µg/L	n/d	n/d	n/d	100
Copper	mg/L	0.01	0.02	n/d	
Iron	mg/L	n/d	n/d	n/d	0.3 (SMCL)
Lead	µg/L	n/d	n/d	n/d	
Manganese	µg/L	n/d	n/d	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	12	14	11	
Thallium	µg/L	n/d	n/d	n/d	2
<b><u>INORGANICS</u></b>					
Chloride	mg/L	36	39	32	250 (SMCL)
Residual Chlorine	mg/L	1.1	1.6	0.4	TT=>0.2
Fluoride	mg/L	0.7	0.8	0.5	4 (SMCL=2)
Nitrate	mg/L	0.9	1.4	0.2	10
Nitrite	mg/L	n/d	n/d	n/d	1
Sulfate	mg/L	5.7	6.3	4.7	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	22	33	14	
Total Trihalomethanes (TTHMs)	µg/L	23	43	12	
<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

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Aldicarb sulfoxide	µg/L	n/d	n/d	n/d	4
<b>PATUXENT WATER FILTRATION PLANT</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>
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	0.5	1.0	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	0.5	2.0	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
<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

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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

### PATUXENT WATER FILTRATION PLANT

PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT <sup>11</sup>
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	n/d	n/d	n/d	15
Gross Beta	pCi/L	1.2	5.9	n/d	50 <sup>2</sup>
Radium 228	pCi/L	<0.1	0.3	n/d	5 <sup>3</sup>

### CUSTOMER TAP <sup>4</sup>

PARAMETER	UNIT OF MEASURE	90th PERCENTILE <sup>5</sup>	# of SITES ABOVE AL	EPA ACTION LEVEL (AL)
Copper	mg/L	0.12	0 of 69	1.3
Lead	µg/L	<0.002	0 of 69	15

### DISTRIBUTION SYSTEM

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

Samples Total Coliform Positive	%/month	0.15	0.50	0	5
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Samples <i>E. coli</i> Positive	%/month	0.04	0	0
No. of <i>E. coli</i> Positive Routine Samples	Count	2	1	0
No. of <i>E. coli</i> Positive Repeat Samples	Count	0	0	0

### DISTRIBUTION SYSTEM

PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT <sup>11</sup>
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#### DISINFECTANT & DISINFECTION BYPRODUCTS

Residual Chlorine	mg/L	1.2	3.0	0.09 <sup>7</sup>	4 <sup>8</sup>
Haloacetic Acids (HAA5)	µg/L	46 <sup>9</sup>	62	19	60 <sup>10</sup>
Total Trihalomethanes (TTHMs)	µg/L	68 <sup>9</sup>	104	16	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 2023

<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.

## WSSC TAP WATER ANALYSIS - 2023

<b>POTOMAC WATER FILTRATION PLANT</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>GENERAL WATER QUALITY</u></b>					
Alkalinity	mg/L	78	117	47	
Color	Units	1	4	0	15 (SMCL)
Hardness	mg/L	140	195	70	
pH	S.U.	7.4	7.8	7.1	6.5-8.5 (SMCL)
Specific Conductance	MicroSiemens/cm	392	540	226	
Temperature	° C	16	30	3.3	
Threshold Odor	Units	1.0	3.2	1.0	3 (SMCL)
Turbidity <sup>1</sup>	NTU	0.04	0.31	0.02	TT=1 NTU; <0.3 NTU 95% of time
Geosmin	ng/L	20.90	89.70	4.1	
2-Methylisoborneol	ng/L	3.30	9.62	2	
<b><u>METALS</u></b>					
Aluminum	mg/L	n/d	n/d	n/d	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	0.02	2
Beryllium	µg/L	n/d	n/d	n/d	4
Cadmium	µg/L	n/d	n/d	n/d	5
Calcium	mg/L	39	56	19	
Total Chromium	µg/L	n/d	n/d	n/d	100
Copper	mg/L	0.002	0.005	0.002	
Iron	mg/L	n/d	n/d	n/d	0.3 (SMCL)
Lead	µg/L	n/d	n/d	n/d	
Manganese	µg/L	n/d	n/d	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	19	25	12	
Thallium	µg/L	n/d	n/d	n/d	2
<b><u>INORGANICS</u></b>					
Chloride	mg/L	44	57	27	250 (SMCL)
Residual Chlorine	mg/L	1.8	2.6	0.7	TT=>0.2
Fluoride	mg/L	0.8	0.9	0.6	4 (SMCL=2)
Nitrate	mg/L	0.9	2.4	0.2	10
Nitrite	mg/L	n/d	n/d	n/d	1
Sulfate	mg/L	42	72	11.0	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	32	11	
Total Trihalomethanes (TTHMs)	µg/L	21	45	6.5	
<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	

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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	0.8	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	0.5	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
<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



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<b><u>DISINFECTANT &amp; DISINFECTION BYPRODUCTS</u></b>					
Residual Chlorine	mg/L	1.2	3.0	0.09 <sup>7</sup>	4 <sup>8</sup>
Haloacetic Acids (HAA5)	µg/L	46 <sup>9</sup>	62	19	60 <sup>10</sup>
Total Trihalomethanes (TTHMs)	µg/L	68 <sup>9</sup>	104	16	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 2023

<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.