WSSC TAP WATER ANALYSIS - 2024

POTOMAC WATER FILTRATION PLANT

PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT [11]
GENERAL WATER QUALITY					
Alkalinity	mg/L	78	111	41	
Color	Units	0	6	0	15 (SMCL)
Hardness	mg/L	140	199	62	
pH	S.U.	7.4	7.7	7.0	6.5-8.5 (SMCL)
Specific Conductance	MicroSiemens/cm	393	525	217	
Temperature	° C	16	32	0.8	
Threshold Odor	Units	1.0	1.0	0.5	3 (SMCL)
Turbidity [1]	NTU	0.04	0.17	0.02	TT=1 NTU; <0.3 NTU 95% of time
METALS					
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	0.03	2
Beryllium	µg/L	n/d	n/d	n/d	4
Cadmium	µg/L	n/d	n/d	n/d	5
Calcium	mg/L	41	58	24	
Total Chromium	µg/L	n/d	n/d	n/d	100
Copper	mg/L	0.004	0.09	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	18	23	11	
Thallium	µg/L	n/d	n/d	n/d	2
INORGANICS					
Chloride	mg/L	43	71	23	250 (SMCL)
Residual Chlorine	mg/L	2.1	2.5	1.9	TT≥0.2
Fluoride	mg/L	0.7	0.8	0.4	4 (SMCL=2)
Nitrate	mg/L	1.1	1.9	0.2	10
Nitrite	mg/L	n/d	n/d	n/d	1
Sulfate	mg/L	5.8	7.9	4.5	250 (SMCL)
DISINFECTION BYPRODUCT PRECURSOR					
Total Organic Carbon	mg/L	Meets Treatment Technique (TT) Requirements			TT
ORGANICS					
Haloacetic Acids (HAA5)	µg/L	23	47	11	
Total Trihalomethanes (TTHMs)	µg/L	21	42	9	
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
Aldrin	µg/L	n/d	n/d	n/d	
Atrazine	µg/L	n/d	n/d	n/d	3

POTOMAC WATER FILTRATION PLANT

PARAMETER	UNIT OF	YEARLY	MAXIMUM	MINIMUM	EPA LIMIT [11]

WSSC TAP WATER ANALYSIS - 2024

	MEASURE	AVERAGE			
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
Trichloroethene	µg/L	n/d	n/d	n/d	5
Vinyl Chloride	µg/L	n/d	n/d	n/d	2

POTOMAC WATER FILTRATION PLANT

PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT [11]
1,1,1,2-Tetrachloroethane	µg/L	n/d	n/d	n/d	

WSSC TAP WATER ANALYSIS - 2024

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	
cis -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	
trans -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	1.6	5.2	n/d	50 [2]
Radium 228	pCi/L	0.7	1.4	0.1	5 [3]
Tritium	pCi/L	n/d	n/d	n/d	

CUSTOMER TAP [4]

PARAMETER	UNIT OF MEASURE	90th PERCENTILE [5]	# 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 [11]
BACTERIOLOGICAL					
Samples Total Coliform Positive	%/month	0.06	0.50	0	5
Samples *E. coli* Positive	%/month	0	0	0	
No.of *E. coli* Positive Routine Samples	Count	0	0	0	
No.of *E. coli* Positive Repeat Samples	Count	0	0	0	0

DISTRIBUTION SYSTEM

PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT [11]
DISINFECTANT & DISINFECTION BYPRODUCTS					
Residual Chlorine	mg/L	1.3	2.9	0.08	4 [8]
Haloacetic Acids (HAA5)	µg/L	49	96	12	60 [10]
Total Trihalomethanes (TTHMs)	µg/L	66	20	115	80 [10]

WSSC TAP WATER ANALYSIS - 2024

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

> greater than

< 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 2023

[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.