CARY
LIVE INSPIRED

DRINKING WATER

DETAILED REPORT 2025

WATER QUALITY TESTING SUMMARY FOR THE DRINKING WATER
PRODUCED BY THE CARY/APEX WATER TREATMENT FACILITY

WE ARE PLEASED TO PRESENT TO YOU THE CARY/APEX WATER TREATMENT FACILITY TEST RESULT SUMMARY FOR 2025.

This report is a snapshot of last year's water quality. The values contained in this report are based on single measurements or yearly averages depending on the contaminant. The Environmental Protection Agency and/or the State requires us to monitor for certain substances less than once per year because the concentrations of these substances are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old. In these cases, the most recent data is included, along with the year in which the sample was taken. It is our constant goal to provide you with a safe and dependable supply of drinking water.

Tiffanie is a Laboratory Analyst II who joined the Cary/Apex Water Treatment Facility Laboratory in March of 2024.

WATER TREATMENT DEFINITIONS

Action Level (AL): The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

Hazard Index: A tool the EPA is proposing that water systems use to evaluate combined health risks from 4 different PFAS compounds in drinking water.

Locational Running Annual Average (LRAA): The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters under the Stage 2 Disinfectants and Disinfection Byproducts Rule.

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.

Nephelometric Turbidity Unit (NTU): A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Not-Applicable (N/A): Information not applicable/ not required for that particular water system or for that particular rule.

Non-Detects (ND): Laboratory analysis indicates that the contaminant is not present at the level of detection set for the particular methodology used.

Parts per billion (ppb) or Micrograms per liter (ug/L): One part per billion corresponds to one minute in 2,000 years or a single penny in $10,000,000.

Parts per million (ppm) or Milligrams per liter (mg/L): One part per million corresponds to one minute in two years or a single penny in $10,000.

Parts per trillion (ppt) or Nanograms per liter (nanograms/L): One part per trillion corresponds to one minute in 2,000,000 years or a single penny in $10,000,000,000.

Picocuries per liter (pCi/L): A measure of the radioactivity in water.

Removal Ratio: A ratio between the percentage of a substance actually removed to the percentage of the substance required to be removed.

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

Chris, the Operations Specialist & Rachel, the Laboratory Supervisor collect water samples from Jordan Lake.

LEAD AND COPPER

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST LEVEL GOAL (MCLG)	AMOUNT DETECTED	SITES ABOVE AL/TOTAL SITES	VIOLATION	TYPICAL SOURCE
Copper (ppm) (90th percentile)	2024	60 Samples once every 3 years	AL = 1.3	1.3	0.096	0/61	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (ppb) (90th percentile)			AL = 15	0	ND	0/61		Corrosion of household plumbing systems, erosion of natural deposits

NITRATE AND NITRITE

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST LEVEL GOAL (MCLG)	AMOUNT DETECTED	RANGE DETECTED	VIOLATION	TYPICAL SOURCE
Nitrate (as Nitrogen) (ppm)	2025	2 Times a week	10	10	ND	N/A	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite (as Nitrogen) (ppm)			1	1	ND			Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

ASBESTOS

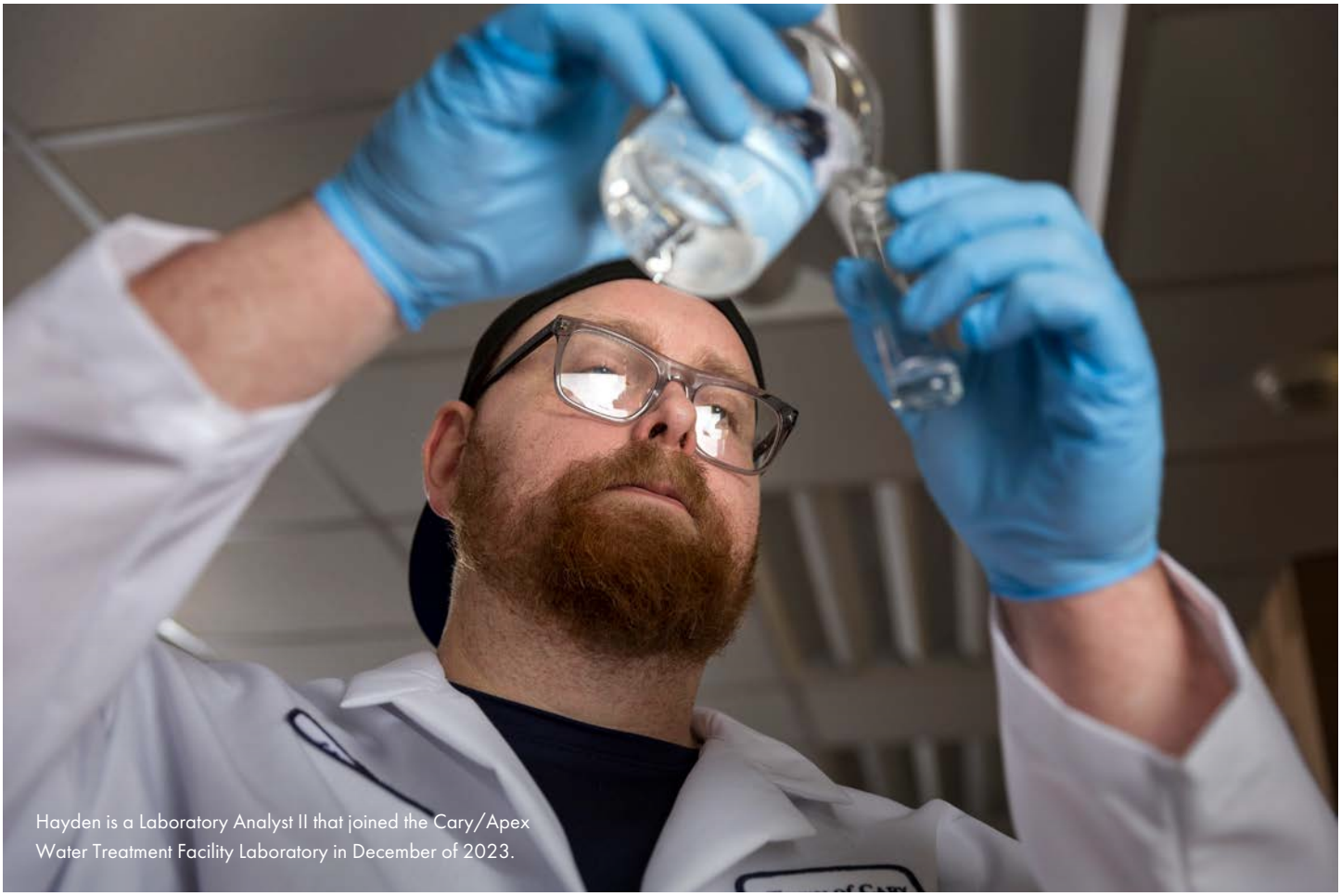
CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST LEVEL GOAL (MCLG)	AMOUNT DETECTED	RANGE DETECTED	VIOLATION	TYPICAL SOURCE
Total Asbestos (MF/L)	2020	Once every 9 years	7	7	< 0.19	N/A	No	Decay of asbestos cement water mains; erosion of natural deposits

DISINFECTANTS AND DISINFECTION BYPRODUCTS

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST LEVEL GOAL (MCLG)	AMOUNT DETECTED	RANGE DETECTED	VIOLATION	TYPICAL SOURCE
TTHM (ppb) [Total Trihalomethanes]	2025	8 Samples quarterly	80	N/A	37 Maximum LRAA	17–43 Individual sample sites	No	Byproduct of drinking water chlorination
HAA5 (ppb) [Total Haloacetic Acids]		8 Samples quarterly	60	N/A	17 Maximum LRAA	9–17 Individual sample sites		Byproduct of drinking water disinfection
Bromate (ppb)		Once a month	10 Running annual average	0	ND Running annual average	ND–3 Individual measurements		Byproduct of drinking water disinfection
Chloramines (ppm)		~140 Samples a month (April to February)	MRDL = 4 Running annual average	MRDLG = 4	2.96 Running annual average	1.33–3.91 Individual sites		Water additive used to control microbes
Chlorine, Free (ppm)		137 Samples in March	MRDL = 4 Running annual average	MRDLG = 4	2.19 Running annual average	0.37–3.29 Individual sites		Water additive used to control microbes
Total Organic Carbon (removal ratio)		Quarterly	TT	N/A	1.51	1.36–1.72		Naturally present in the environment

TURBIDITY (COMBINED FILTER EFFLUENT TURBIDITY VALUES)

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST LEVEL GOAL (MCLG)	AMOUNT DETECTED	RANGE DETECTED	VIOLATION	TYPICAL SOURCE
Turbidity (NTU)	2025	Every 4 hours	TT = 1 NTU and 95% < 0.3 NTU	N/A	0.10 and 100% < 0.3% NTU	0.02–0.10	No	Soil runoff



Hayden is a Laboratory Analyst II that joined the Cary/Apex Water Treatment Facility Laboratory in December of 2023.

RADIOLOGICALS

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST LEVEL GOAL (MCLG)	AMOUNT DETECTED	VIOLATION	TYPICAL SOURCE
Gross Alpha (pCi/L)	2017	Once every 9 years	15	0	ND	No	Erosion of natural deposits
Gross Beta (pCi/L)			50		4.2		Decay of natural and man-made deposits
Radium 226 (pCi/L)			3		ND		Erosion of natural deposits
Radium 228 (pCi/L)			2		ND		Erosion of natural deposits
Uranium (pCi/L)			20.1		ND		Erosion of natural deposits

MICROBIOLOGICALS

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST LEVEL GOAL (MCLG)	AMOUNT DETECTED	VIOLATION	TYPICAL SOURCE
Total Coliform Bacteria presence or absence	2025	~154 Samples a month	TT = If greater than 5% of monthly samples are positive in one month, an assessment is required.	N/A	0–1%	N/A	Naturally present in the environment
Fecal Coliform or E. coli presence or absence		~154 Samples a month	0 (Note: Routine and repeat samples are total coliform-positive and either is E. coli-positive or system fails to take repeat samples following E. coli-positive routine sample or system fails to analyze total coliform-positive repeat sample for E. coli.)	0	ND–ND	No	Human and animal fecal waste
Cryptosporidium (oocysts/L)	2022	Once	TT = 99 % Removal	0	ND	No	Human and animal fecal waste
Giardia lamblia (cysts/L)		Once	TT = 99 % Removal/ inactivation	0	ND	No	Human and animal fecal waste

TRIHALOMETHANES (THMS)

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AMOUNT DETECTED	RANGE DETECTED	VIOLATION	TYPICAL SOURCE
Chloroform (ppb)	2025	8 Samples quarterly	8	4–13	No	Byproduct of drinking water chlorination
Bromodichloromethane (ppb)			9	ND–15		
Bromoform (ppb)			1	1–3		
Chlorodibromomethane (ppb)			8	5–13		

Note: Not individually regulated. See TTHM on page 5 for compliance information.

HALOACETIC ACIDS (HAAS)

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AMOUNT DETECTED	RANGE DETECTED	VIOLATION	TYPICAL SOURCE
Trichloroacetic Acid (ppb)	2025	8 Samples quarterly	2	2–2.9	No	Byproduct of drinking water chlorination
Dichloroacetic Acid (ppb)			2	ND–3		
Monochloroacetic Acid (ppb)			ND	ND–3		
Monobromoacetic Acid (ppb)			ND	ND–ND		
Dibromoacetic Acid (ppb)			2	1.4–3		

Note: Not individually regulated. See TTHM on page 5 for compliance information.

Erin is a Senior Laboratory Analyst that has been employed by the Cary/Apex Water Treatment Facility Laboratory since October 2005.

REGULATED INORGANICS

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST LEVEL GOAL (MCLG)	AMOUNT DETECTED	RANGE DETECTED	VIOLATION	TYPICAL SOURCE
Antimony (ppb)	2025	Daily	6	6	ND	ND–ND	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic (ppb)			10	0	ND			Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)			2	2	ND			Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Beryllium (ppb)			4	4	ND			Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)			5	5	ND			Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium (ppb)			100	100	ND			Discharge from steel and pulp mills; erosion of natural deposits
Cyanide, Total (ppb)		Annually	200	200	ND			Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride (ppm)		Daily	4	4	0.68	ND–0.88		Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (inorganic) (ppb)		Annually	2	2	ND	ND-ND		Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Selenium (ppb)		Daily	50	50	ND			Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium (ppb)			2	0.5	ND			Leaching from ore processing sites; discharge from electronics, glass, and drug factories

WATER QUALITY CHARACTERISTICS

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	HIGHEST LEVEL ALLOWED (MCL)	AMOUNT DETECTED	RANGE DETECTED	VIOLATION
Alkalinity, Total, as CaCO3 (ppm)	2025	Daily	N/A	33	25–42	No
Aluminum (ppm)		Daily	0.20	0.03	0.01–0.09	
Ammonia, Free (ppm)		Daily	N/A	0.05	ND–0.19	
Ammonia, Total (ppm)		Daily	N/A	0.76	ND–1.24	
Calcium (ppm)		Daily	N/A	8.49	6.50–10.44	
Carbon Dioxide (ppm)	2023	Daily	N/A	0.61	0.19–1.49	
Chloride (ppm)	2025	Annually	250	16	16–16	
Color (CU)		Daily	15	0	0–3	
Conductivity (uS/cm)		Daily	N/A	217	185–255	
Geosmin (ppt)		Daily	N/A	ND	ND–4.56	
Hardness, Total, as CaCO3 (ppm)		Daily	Classified as “moderately soft”	30	23–37	
Hardness, Total, as CaCO3 (grains per gallon)		Daily	Classified as “moderately soft”	2	1–2	
Iron (ppm)		Daily	0.3	ND	ND–ND	
Magnesium (ppm)		Daily	N/A	2.32	1.15–3.05	
Manganese (ppm)		Daily	0.05	ND	ND–0.01	
Methylisoborneol (MIB) (ppt)		Daily	N/A	ND	ND–6.65	
Nickel (ppm)		Daily	N/A	ND	ND-ND	
Ortho-Phosphate as PO4 (ppm)		Weekly	N/A	0.64	0.58–0.70	

WATER QUALITY CHARACTERISTICS CONT'D

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	HIGHEST LEVEL ALLOWED (MCL)	AMOUNT DETECTED	RANGE DETECTED	VIOLATION
pH (SU)	2025	Daily	7–9	8.00	7.46–8.74	No
Silica (ppm)	2004	2x/Month	N/A	3.44	ND–7.16	
Sodium (ppm)	2025	Annually	N/A	26	26-26	
Sulfate (ppm)		Annually	250	33	33-33	
Total Phosphorous as P (ppm)		Weekly	N/A	0.26	ND–0.31	
Total Dissolved Solids (ppm)		2x/Month	500	109	96–132	
Zinc (ppm)	2007	Once	5	ND	ND-ND	

SYNTHETIC ORGANIC CHEMICALS (SOCs) INCLUDING PESTICIDES AND HERBICIDES

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST LEVEL GOAL (MCLG)	AMOUNT DETECTED	RANGE DETECTED	VIOLATION	TYPICAL SOURCE
2,4-D (ppb)	2025	2x Annually	70	70	ND	ND-ND	No	Runoff from herbicide used on row crops
2,4,5-TP (Silvex)(ppb)			50	50	ND			Residue of banned herbicide
Alachlor (ppb)			2	0	ND			Runoff from herbicide used on row crops
Atrazine (ppb)			3	3	ND			Runoff from herbicide used on row crops
Benzo(a)pyrene (PAH) (ppt)			200	0	ND			Leaching from linings of water storage tanks and distribution lines
Carbofuran (ppb)			40	40	ND			Leaching of soil fumigant used on rice and alfalfa
Chlordane (ppb)			2	0	ND			Residue of banned termiticide
Dalapon (ppb)			200	200	ND			Runoff from herbicide used on rights of way
Bis (2-ethylhexyl) adipate (ppb)			400	400	ND			Discharge from chemical factories
Bis (2-ethylhexyl) phthalate (ppb)			6	0	ND			Discharge from rubber and chemical factories

SYNTHETIC ORGANIC CHEMICALS (SOCs) INCLUDING PESTICIDES AND HERBICIDES

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST LEVEL GOAL (MCLG)	AMOUNT DETECTED	RANGE DETECTED	VIOLATION	TYPICAL SOURCE
1,2-Dibromo-3-chloropropane (DBCP) (ppt)	2025	2x Annually	200	0	ND	ND-ND	No	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb (ppb)			7	7	ND			Runoff from herbicide used on soybeans and vegetables
Endrin (ppb)			2	2	ND			Residue of banned insecticide
Ethylene dibromide (EDB) (ppt); also known as 1,2-Dibromo-ethane			50	0	ND			Discharge from petroleum refineries
Heptachlor (ppt)			400	0	ND			Residue of banned pesticide
Heptachlor epoxide (ppt)			200	0	ND			Breakdown of heptachlor
Hexachloro-benzene (ppb)			1	0	ND			Discharge from metal refineries and agricultural chemical factories
Hexachloro-cyclopentadiene (ppb)			50	50	ND			Discharge from chemical factories
Lindane (ppt); also known as gamma-BHC			200	200	ND			Runoff/leaching from insecticide used on cattle, lumber, and gardens
Methoxychlor (ppb)			40	40	ND			Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, and livestock
Oxamyl (vydate) (ppb)			200	200	ND			Runoff/leaching from insecticide used on apples, potatoes, and tomatoes
Polychlorinated biphenyls (PCBs) (ppt)			500	0	ND			Runoff from landfills; discharge of waste chemicals
Pentachlo-rophenol (ppb)			1	0	ND			Discharge from wood preserving factories
Picloram (ppb)			500	500	ND			Herbicide runoff
Simazine (ppb)			4	4	ND			Herbicide runoff
Toxaphene (ppb)			3	0	ND			Runoff/leaching from insecticide used on cotton and cattle

Note: All results are below detection limit.

UNREGULATED SOCs INCLUDING PESTICIDES AND HERBICIDES

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AMOUNT DETECTED	RANGE DETECTED	VIOLATION
Aldicarb (ppb)	2025	2x Annually	ND	ND-ND	No
Aldicarb Sulfone (ppb)			ND		
Aldicarb Sulfoxide (ppb)			ND		
Aldrin (ppb)			ND		
Butachlor (ppb)			ND		
Carbaryl (ppb)			ND		
Dicamba (ppb)			ND		
Dieldrin (ppb)			ND		
3-Hydroxycarbofuran (ppb)			ND		
Methomyl (ppb)			ND		
Metolachlor (ppb)			ND		
Metribuzin (ppb)			ND		
Propachlor (ppb)			ND		

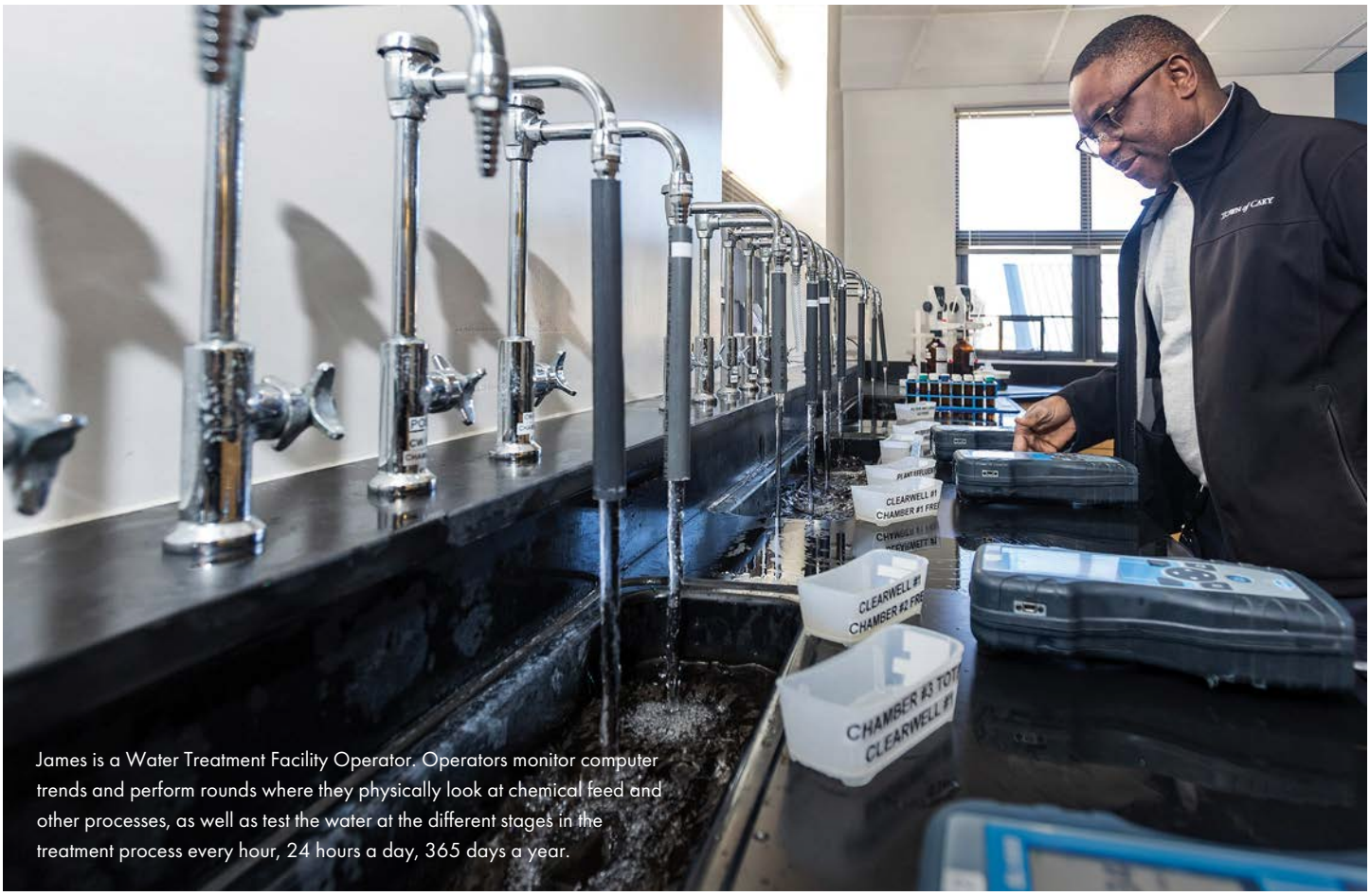
Note: All results are below detection limit.

VOLATILE ORGANIC CHEMICALS (VOCs)

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST LEVEL GOAL (MCLG)	AMOUNT DETECTED	RANGE DETECTED	VIOLATION	TYPICAL SOURCE
Benzene (ppb)	2025	Annually	5	0	ND	ND-ND	No	Runoff from herbicide used on row crops
Carbon tetrachloride (ppb)			5	0	ND			Residue of banned herbicide
Chlorobenzene (ppb)			100	100	ND			Runoff from herbicide used on row crops
1,2 – Dichlorobenzene (ppb) (o-Dichlorobenzene)			600	600	ND			Runoff from herbicide used on row crops
1,4 – Dichlorobenzene (ppb) (p - Dichlorobenzene)			75	75	ND			Leaching from linings of water storage tanks and distribution lines
1,2 – Dichloroethane (ppb)			5	0	ND			Leaching of soil fumigant used on rice and alfalfa
1,1 – Dichloroethene (ppb)			7	7	ND			Residue of banned termiticide
cis – 1,2 – Dichloroethene (ppb) (cis-1,2 -Dichloroethylene)			70	70	ND			Runoff from herbicide used on rights of way
trans-1,2 -Dichloroethene (ppb) (trans-1,2-Dichloroethylene)			100	100	ND			Discharge from chemical factories
1,2 – Dichloropropane (ppb)			5	0	ND			Discharge from rubber and chemical factories
Ethylbenzene (ppb)			700	700	ND			Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Methylene chloride (ppb) (Dichloromethane)			5	0	ND			Runoff from herbicide used on soybeans and vegetables
Styrene (ppb)			100	100	ND			Residue of banned insecticide
Tetrachloroethene (ppb)			5	0	ND			Discharge from petroleum refineries
1,2,4 – Trichlorobenzene (ppb)			70	70	ND			Residue of banned pesticide

VOLATILE ORGANIC CHEMICALS (VOCs) CONT'D

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST LEVEL GOAL (MCLG)	AMOUNT DETECTED	RANGE DETECTED	VIOLATION	TYPICAL SOURCE
1,1,1 – Trichloroethane (ppb)	2025	Annually	200	200	ND	ND-ND	No	Breakdown of heptachlor
1,1,2 – Trichloroethane (ppb)			5	3	ND			Discharge from metal refineries and agricultural chemical factories
Trichloroethene (ppb)			5	0	ND			Discharge from chemical factories
Toluene (ppm)			1	1	ND			Runoff/leaching from insecticide used on cattle, lumber, and gardens
Vinyl chloride (ppb)			2	0	ND			Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, and livestock
Xylenes, Total (ppm)			10	10	ND			Runoff/leaching from insecticide used on apples, potatoes, and tomatoes



James is a Water Treatment Facility Operator. Operators monitor computer trends and perform rounds where they physically look at chemical feed and other processes, as well as test the water at the different stages in the treatment process every hour, 24 hours a day, 365 days a year.

UNREGULATED VOCs

CONTAMINANT (UNITS)	YEAR SAMPLED		AMOUNT DETECTED	RANGE DETECTED	VIOLATION
Bromobenzene (ppb)	2022	Annually until 2023	ND	ND-ND	No
Bromochloromethane (ppb)			ND		
Bromomethane (ppb)			ND		
n-Butylbenzene (ppb)			ND		
Sec-Butylbenzene (ppb)			ND		
Tert-Butylbenzene (ppb)			ND		
Chloroethane (ppb)			ND		
Chloromethane (ppb)			ND		
2 – Chlorotoluene (ppb)			ND		
4 – Chlorotoluene (ppb)			ND		
Dibromomethane (ppb)			ND		
1,3 – Dichlorobenzene (ppb) (meta-Dichlorobenzene)			ND		
Dichlorodifluoromethane (ppb)			ND		
1,1 – Dichloroethane (ppb)			ND		
1,3 – Dichloropropane (ppb)			ND		
2,2 – Dichloropropane (ppb)			ND		
1,1 – Dichloropropene (ppb)			ND		

UNREGULATED VOCs CONT'D

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AMOUNT DETECTED	RANGE DETECTED	VIOLATION
1,3 – Dichloropropene (ppb)	2022	Annually until 2023	ND	ND-ND	No
Hexachlorobutadiene (ppb)			ND		
Isopropylbenzene (ppb)			ND		
4 – Isopropyltoluene (ppb)			ND		
Methyl-tert-butyl ether (MTBE) (ppb)			ND		
Naphthalene (ppb)			ND		
n-Propylbenzene (ppb)			ND		
1,1,1,2 – Tetrachloroethane (ppb)			ND		
1,1,2,2 – Tetrachloroethane (ppb)			ND		
1,2,3 – Trichlorobenzene (ppb)			ND		
1,2,3 – Trichloropropane (ppb)			ND		
Trichlorofluoromethane (ppb) (Fluorotrichloromethane)			ND		
1,2,4 – Trimethylbenzene (ppb)			ND		
1,3,5 – Trimethylbenzene (ppb)			ND		
trans – 1,3 – Dichloropropylene (ppb)			ND		
1,2,4 – Trimethylbenzene (ppb)			ND		
1,3,5 – Trimethylbenzene (ppb)			ND		

PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AVERAGE AMOUNT DETECTED	RANGE DETECTED	VIOLATION	SOURCE
10:2 Fluorotelomer sulfonic acid (10:2 FTS) (ppt)	2022	1 Time	ND	ND-ND	No	Man-made chemicals used for waterproof and stain proof fabrics, nonstick cookware, some food packaging materials, and fire suppression foams
Perfluorobutylsulfonamide (FBSA) (ppt)			0.37	0.37- 0.37		
Nafion 1 (ppt)			ND	ND-ND		
Nafion 2 (ppt)			ND	ND-ND		
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA) (ppt)			ND	ND-ND		
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA) (ppt)			ND	ND-ND		
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA) (ppt)			ND	ND-ND		
Perfluoro-2-(perfluoromethoxy) propanoic acid (PMPA) (ppt)			ND	ND-ND		
Perfluoro-2-ethoxypropanoic acid (PEPA) (ppt)			ND	ND-ND		
Perfluoro-2-methoxyacetic acid (PFMOAA) (ppt)			ND	ND-ND		
Perfluoro-3,5,7,9,11-pentaoxadodecanoic acid (ppt)			ND	ND-ND		
Perfluoro-4-(2-sulfoethoxy) pentanoic acid (ppt)			ND	ND-ND		
Perfluoroethoxsypropanoic acid (EVE Acid) (ppt)			ND	ND-ND		
PFECA-G (ppt)			ND	ND–ND		
R-EVE (ppt)			ND	ND–ND		
R-PSDCA (ppt)			ND	ND-ND		
N-ethylperfluorooctane sulfonamide (NEtFOSA) (ppt)	2024	5 Times	ND	ND–ND		
N-ethylperfluorooctane sulfonamidoethanol (ppt)			ND	ND-ND		
N-methylperfluorooctane sulfonamide (NMeFOSA) (ppt)			ND	ND-ND		
N-methylperfluorooctane sulfonamidoethanol (ppt)			ND	ND-ND		
Hydro-EVE Acid (ppt)			ND	ND-ND		
Hydrolyzed PSDA (ppt)			ND	ND-ND		
Perfluorododecanesulfonic acid (PFDoS) (ppt)			ND	ND-ND		

PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) CONT'D

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AVERAGE AMOUNT DETECTED	RANGE DETECTED	VIOLATION	SOURCE
Perfluorodecanesulfonic acid (PFDS) (ppt)	2024	5 times	ND	ND-ND	No	Man-made chemicals used for waterproof and stain proof fabrics, nonstick cookware, some food packaging materials, and fire suppression foams
Perfluorohexadecanoic acid (PFHxDA) (ppt)			ND	ND-ND		
Perfluoro-4-isopropoxybutanoic acid (PFESA-BP1) (ppt)			ND	ND-ND		
Perfluorononanesulfonic acid (PFNS) (ppt)			ND	ND-ND		
Perfluorooctane sulfonamide (PFOSA) (ppt)			ND	ND-ND		
			ND	ND-ND		
4:2 Fluorotelomer sulfonic acid (4:2 FTS) (ppt)	2025	6-14 Times	ND	ND-ND		
6:2 Fluorotelomer sulfonic acid (6:2 FTS) (ppt)			ND	ND-ND		
8:2 Fluorotelomer sulfonic acid (8:2 FTS) (ppt)			ND	ND-ND		
ADONA (ppt)			ND	ND-ND		
F-53B Major (ppt)			ND	ND-ND		
F-53B Minor (ppt)			ND	ND-ND		
GenX (ppt)			ND	ND-ND		
N-ethyl Perfluorooctanesulfonamidoacetic acid (NEtFO5S3A7A) (ppt)			ND	ND-ND		
N-methyl Perfluorooctanesulfonamidoacetic acid (NMe5F3O7SAA) (ppt)			ND	ND-ND		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) (ppt)			ND	ND-ND		
Perfluoro (2-ethoxyethane) Sulfonic Acid (PFEESA)(ppt)			ND	ND-ND		
Perfluoro-3-methoxypropanoic acid (PFMPA) (ppt)			ND	ND-ND		
Perfluoro-4-methoxybutanoic acid (PFMBA) (ppt)			ND	ND-ND		
Perfluorobutanesulfonic acid (PFBS) (ppt)			ND	ND-3.6		
Perfluorobutanoic acid (PFBA) (ppt)			5.9	4.9-7.3		

PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) CONT'D

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AVERAGE AMOUNT DETECTED	RANGE DETECTED	VIOLATION	SOURCE
Perfluorodecanoic acid (PFDA) (ppt)	2025	6 - 14 Times	ND	ND-ND	No	Man-made chemicals used for waterproof and stain proof fabrics, nonstick cookware, some food packaging materials, and fire suppression foams
Perfluoroheptanesulfonic acid (PFHpS) (ppt)			ND	ND–ND		
Perfluoroheptanoic acid (PFHpA) (ppt)			1.1	ND-2.9		
Perfluorohexanesulfonic acid (PFHxS) (ppt)			ND	ND-1.1		
Perfluorohexanoic acid (PFHxA) (ppt)			5.1	ND-7.2		
Perfluorolauric acid (PFDoA) (ppt)			ND	ND-ND		
Perfluorononanoic acid (PFNA) (ppt)			ND	ND-ND		
Perfluorooctane sulfonate (PFOS) (ppt)			ND	ND-1.7		
Perfluorooctanoic acid (PFOA) (ppt)			1.3	ND-3.9		
Perfluoropentanesulfonic acid (PFPeS) (ppt)			ND	ND-ND		
Perfluoropentanoic acid (PFPeA) (ppt)			6.0	4.3-7.6		
Perfluorotetradecanoic acid (PFTeDA) (ppt)			ND	ND-ND		
Perfluorotridecanoic acid (PFTrDA (ppt)			ND	ND-ND		
Perfluoroundecanoic acid (PFUnA) (ppt)			ND	ND-ND		

Note: ND = non-detect, detection levels varied

ANOTHER EMERGING CONTAMINANT

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AVERAGE AMOUNT DETECTED	RANGE DETECTED	VIOLATION	SOURCE
1,4-Dioxane (ppb)	2025	12 Times	ND	ND–ND	No	Byproduct in paint strippers, dyes, greases, antifreeze, aircraft deicing fluids, deodorants, shampoos, cosmetics, manufacture of pharmaceuticals, and manufacture of PET plastic

UNREGULATED UCMR1 CONTAMINANTS

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AVERAGE AMOUNT DETECTED	RANGE DETECTED	VIOLATION
Perchlorate (ppb)	2022	Quarterly	ND	ND-ND	No
DCPA Acid Metabolites (ppb)			ND		
MTBE (ppb)			ND		
Nitrobenzene (ppb)			ND		
Acetochlor (ppb)			ND		
2,4 – Dinitrotoluene (ppb)			ND		
2,6 – Dinitrotoluene (ppb)			ND		
4,4 – DDE (ppb)			ND		
EPTC (ppb)			ND		
Molinate (ppb)			ND		
Terbacil (ppb)			ND		

UNREGULATED UCMR2 CONTAMINANTS

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AVERAGE AMOUNT DETECTED	RANGE DETECTED	VIOLATION
Dimethoate (ppb)	2010	Quarterly	ND	ND-ND	No
Terbufos sulfone (ppb)			ND		
2,2′,4,4′ – tetrabromodiphenyl ether (BDE-47) (ppb)			ND		
2,2′,4,4′,5 – pentabromodiphenyl ether (BDE-99) (ppb)			ND		
2,2′,4,4′,5,5′ – hexabromobiphenyl (245-HBB) (ppb)			ND		
2,2′,4,4′,5,5′ – hexabromodiphenyl ether (BDE-153) (ppb)			ND		
2,2′,4,4′,6 – pentabromodiphenyl ether (BDE-100) (ppb)			ND		
1,3 – dinitrobenzene (ppb)			ND		
2,4,6 – trinitrotoluene (TNT) (ppb)			ND		
Hexahydro – 1,3,5 – trinitro – 1,3,5 – triazine (RDX) (ppb)			ND		
Acetochlor (ppb)			ND		
Alachlor (ppb)			ND		
Metolachlor (ppb)			ND		
Acetochlor ethane sulfonic acid (ESA) (ppb)			ND		
Acetochlor oxanilic acid (OA) (ppb)			ND		
Alachlor ESA (ppb)			ND		
Alachlor OA (ppb)			ND		
Metolachlor ESA (ppb)			ND		
Metolachlor OA (ppb)			ND		
N-nitrosodiethylamine (NDEA) (ppb)			ND		
N-nitrosodimethylamine (NDMA) (ppt)			4.4	2.3–6.5	
N-nitrosodi-n-butylamine (NDBA) (ppb)			ND	ND-ND	
N-nitrosodi-n-propylamine (NDPA) (ppb)			ND		
N-nitrosomethylethylamine (NMEA) (ppb)			ND		
N-nitrosopyrrolidine (NPYR) (ppb)			ND		

UNREGULATED UCMR3 CONTAMINANTS

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AVERAGE AMOUNT DETECTED	RANGE DETECTED
Chromium (ppb)				
Distribution			ND	ND-ND
Finished Entry Point			ND	ND-ND
Cobalt (ppb)				
Distribution			64	57–68
Finished Entry Point			59	55–66
Molybdemum (ppb)				
Distribution			ND	ND-ND
Finished Entry Point			ND	ND-ND
Strontium (ppb)				
Distribution			64	57–68
Finished Entry Point			59	55–66
Vanadium (ppb)	2015	Quarterly		
Distribution			ND	ND-0.30
Finished Entry Point			ND	ND-0.20
Hexavalent Chromium (ppb)				
Distribution			0.05	0.04–0.05
Finished Entry Point			0.03	0.03-0.03
Chlorate (ppb)				
Distribution			105	89–120
Finished Entry Point			113	92–130
1-4-Dioxane (ppb)				
Finished Entry Point			0.42	0.16–0.77
Bromochlormethane (ppb)				
Finished Entry Point			ND	ND-ND

Note: Unregulated contaminants are those of which EPA has not established drinking water standards but for which monitoring is required. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulations are warranted.

UNREGULATED UCMR3 CONTAMINANTS CONT'D

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AVERAGE AMOUNT DETECTED	RANGE DETECTED
Bromomethane (ppb)	2015	Quarterly		
Finished Entry Point			ND	ND-ND
1,3-Butadiene (ppb)				
Finished Entry Point			ND	ND-ND
Chlorodifluoromethane (ppb)				
Finished Entry Point			ND	ND-ND
Chloromethane (ppb)				
Finished Entry Point			ND	ND-ND
1,1-Dichloroethane (ppb)				
Finished Entry Point			ND	ND-ND
1,2,3-Trichloropropane (ppb)				
Finished Entry Point			ND	ND-ND
Perfluorobutanesulfonic acid (PFBS) (ppb)				
Finished Entry Point			ND	ND-ND
Perfluoroheptanoic acid (PFHpA) (ppb)				
Finished Entry Point			ND	ND–0.01
Perfluorohexanesulfonic acid (PFHxS) (ppb)				
Finished Entry Point			ND	ND-ND
Perfluorononanoic acid (PFNA) (ppb)				
Finished Entry Point			ND	ND-ND
Perfluorooctane sulfonate (PFOS) (ppb)				
Finished Entry Point			ND	ND-ND
Perfluorooctanoic acid (PFOA) (ppb)				
Finished Entry Point			ND	ND-ND
4-Androstene-3,17-dione (ppb)				
Finished Entry Point			ND	ND-ND

View of pulsator sedimentation basins at water treatment facility.

UNREGULATED UCMR3 CONTAMINANTS CONT'D

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AVERAGE AMOUNT DETECTED	RANGE DETECTED
Equilin (ppb)	2015	Quarterly		
Finished Entry Point			ND	ND-ND
17beta-Estradiol (ppb)				
Finished Entry Point			ND	ND-ND
Estriol (ppb)				
Finished Entry Point			ND	ND-ND
Estrone (ppb)				
Finished Entry Point			ND	ND-ND
17alpha-Ethynyl estradiol (ppb)				
Finished Entry Point			ND	ND-ND
Testosterone (ppb)				
Finished Entry Point			ND	ND-ND

UNREGULATED UCMR4 CONTAMINANTS

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AVERAGE AMOUNT DETECTED	RANGE DETECTED	VIOLATION	SOURCE
Germanium (ppb)	2020	Quarterly	ND	ND-ND	No	N/A
Manganese (ppb)			5.966	ND–23.3		Naturally occurring element; commercially available in combination with other elements and minerals; used in steel production, fertilizer, batteries, and fireworks; drinking water and wastewater treatment chemical; essential nutrients
alpha-Hexachlorocyclohexane (ppb)			ND	ND-ND		N/A
Chlorpyrifos (ppb)			ND	ND-ND		N/A
Dimethipin (ppb)			ND	ND-ND		N/A
Ethoprop (ppb)			ND	ND-ND		N/A
Oxyfluorfen (ppb)			ND	ND-ND		N/A
Profenofos (ppb)			ND	ND-ND		N/A
Tebuconazole (ppb)			ND	ND-ND		N/A
Permethrin, cis & trans (ppb)			ND	ND-ND		N/A
Tribufos (ppb)			ND	ND-ND		N/A
Butylated hydroxyanisole (ppb)			ND	ND-ND		N/A
Quinoline (ppb)			ND	ND-ND		N/A
o-Toluidine (ppb)			ND	ND-ND		N/A
1-Butano (ppb)			ND	ND-ND		N/A
2-Methoxyethanol (ppb)			ND	ND-ND		N/A
2-Propen-1-ol (ppb)			ND	ND-ND		N/A
Anatoxin-a (ppb)			ND	ND-ND		N/A
Cylindrospermopsin (ppb)			ND	ND-ND		N/A
Total Microcystins & Nodularins (ppb)			ND	ND-ND		N/A
HAA6Br (ppb)			15.03	5.73–20.76		Byproduct of drinking water disinfection
HAA9 (ppb)			27.451	13.33–40.7		Byproduct of drinking water disinfection
Bromide in Jordan Lake (ppb)			83.2	74.7–99.3		N/A
Total Organic Carbon in Jordan Lake (ppb)			6430	6210–6640		Naturally present in the environment

PHARMACEUTICALS AND PERSONAL CARE PRODUCTS (PPCPs)

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AVERAGE AMOUNT DETECTED	RANGE DETECTED	VIOLATION	SOURCE
Acesulfame-K (ppb)	2018 and 2019	2 Times	ND	ND-ND	No	Calorie-free sugar substitute
Acetaminophen (ppb)			ND	ND-ND		Nonsteroidal anti-inflammatory drug
Albuterol (ppb)			ND	ND-ND		Bronchodilator
Amoxicillin (ppb)			ND	ND-ND		Antibiotic
4-Androstene-3,17-dione (ppb)			ND	ND-ND		Hormone
Antipyrine (ppb)			ND	ND-ND		Anti-inflammatory analgesic
Atenolol (ppb)			3.8	ND–7.6		Beta blocker/Antihypertensive
Atrazine (ppb)			ND	ND-ND		Herbicide
Azithromycin (ppb)			ND	ND-ND		Antibiotic
Bendroflumethiazide (ppb)			ND	ND-ND		Diuretic
Bezafibrate (ppb)			ND	ND-ND		Lipid regulator
Bisphenol A (ppb)			ND	ND-ND		Plasticizer
Bromacil (ppb)			ND	ND-ND		Pesticide
Butalbital (ppb)			ND	ND-ND		Barbiturate
Butylparaben (ppb)			ND	ND-ND		Preservative and flavouring agent
Caffeine (ppb)			ND	ND-ND		Psychostimulant
Carbadox (ppb)			ND	ND-ND		Growth promoter especially for pigs
Carbamazepine (ppb)			ND	ND-ND		Anticonvulsant
Carisoprodol (ppb)			ND	ND-ND		Muscle relaxant
Chloramphenicol (ppb)			ND	ND-ND		Antibiotic
Chloridazon (ppb)			ND	ND-ND		Herbicide
Chlorotoluron (ppb)			ND	ND-ND		Pesticide
Cimetidine (ppb)			ND	ND-ND		H2 blocker acid reducer
Clofibric acid (ppb)			ND	ND-ND		Lipid regulator
Cotinine (ppb)			ND	ND-ND		Metabolite of nicotine
Cyanazine (ppb)			ND	ND-ND		Pesticide

PHARMACEUTICALS AND PERSONAL CARE PRODUCTS (PPCPs) CONT'D

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AVERAGE AMOUNT DETECTED	RANGE DETECTED	VIOLATION	SOURCE
2,4-D (ppb)	2018 and 2019	2 Times	ND	ND-ND	No	Herbicide
DEET (ppb)			ND	ND-ND		Insect repellent
Dehydronifedipine (ppb)			ND	ND-ND		Antihypertensive
Desethylatrazine (ppb)			ND	ND-ND		Herbicide
Desisopropylatrazine (ppb)			ND	ND-ND		Herbicide
Diaminochlorotriazine (ppb)			ND	ND-ND		Herbicide
Diazepam (ppb)			ND	ND–ND		Antidepressant
Diclofenac (ppb)			ND	ND-ND		Nonsteroidal anti-inflammatory drug
Dilantin (ppb)			ND	ND-ND		Anticonvulsant
Diltiazem (ppb)			ND	ND-ND		Antihypertensive
1,7-Dimethylxanthine (ppb)			ND	ND-ND		Caffeine metabolite
Diuron (ppb)			ND	ND-ND		Herbicide
Erythromycin (ppb)			ND	ND-ND		Antibiotic
17beta-Estradiol (ppb)			ND	ND-ND		Hormone
Estrone (ppb)			ND	ND-ND		Hormone
Ethylparaben (ppb)			ND	ND-ND		Preservative
17alpha-Ethynyl estradiol (ppb)			ND	ND-ND		Estrogen medication
Flumequine (ppb)			ND	ND-ND		Antibiotic
Fluoxetine (Prozac) (ppb)			ND	ND-ND		Antidepressant
Gemfibrozil (ppb)			ND	ND-ND		Lipid regulator
Ibuprofen (ppb)			ND	ND-ND		Nonsteroidal anti-inflammatory drug
Iohexal (ppb)			17	ND-34		Contrast agent
Iopromide (ppb)			ND	ND-ND		Contrast agent
Isobutylparaben (ppb)			ND	ND-ND		Preservative
Isoproturon (ppb)			ND	ND-ND		Herbicide
Ketoprofen (ppb)			ND	ND-ND		Nonsteroidal anti-inflammatory drug

PHARMACEUTICALS AND PERSONAL CARE PRODUCTS (PPCPs) CONT'D

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AVERAGE AMOUNT DETECTED	RANGE DETECTED	VIOLATION	SOURCE
Sulfadimethoxine (ppb)	2018 and 2019	2 Times	ND	ND-ND	No	Antimicrobial
Sulfamerazine (ppb)			ND	ND-ND		Antibacterial agent
Sulfamethazine (ppb)			ND	ND-ND		Antibiotic
Sulfamethizole (ppb)			ND	ND-ND		Antibiotic
Sulfamethoxazole (ppb)			ND	ND-ND		Antibiotic
Sulfathiazole (ppb)			ND	ND-ND		Antimicrobial
Testosterone (ppb)			ND	ND-ND		Hormone
Theobromine (ppb)			ND	ND-ND		Stimulant found in cacao plant/tea leaves
Theophylline (ppb)			ND	ND-ND		Respiratory diseases drug
Thiabendazole (ppb)			ND	ND-ND		Fungicide
Triclocarban (ppb)			ND	ND-ND		Antibacterial agent in soaps
Triclosan (ppb)			ND	ND-ND		Antibacterial agent in soaps
Trimethoprim (ppb)			ND	ND-ND		Antibiotic
Tris(2-carboxyethyl) phosphine (ppb)			ND	ND-ND		Reducing agent
Tris(1,3-dichloro-2-propyl) phos (ppb)			ND	ND-ND		Organophosphate
Warfarin (ppb)			ND	ND-ND		Anticoagulant

UNREGULATED UCMR5 CONTAMINANTS

CONTAMINANT (UNITS)	YEAR SAMPLED	TEST FREQUENCY	AMOUNT	RANGE DETECTED	VIOLATION	SOURCE
Lithium (ppm)	2025	4 Times	ND	ND-ND		Naturally occurring element; may concentrate in brine waters; lithium salts are used in pharmaceuticals, electrochemical cells, and batteries.

Note: Other results included in PFAS table.