



ANNUAL WATER QUALITY REPORT 2023

# WITH YOU IN MIND

**BIRMINGHAM**  
**WATER WORKS**



# TABLE OF CONTENTS



3	Directors and Managers
4	FAQ/Mission
5	Water Quality Awards
6	For Your Health/Customer Resources
7	Water Sources and System Information
8	The Water Treatment Process
9	Definitions and Abbreviations
10-14	2022 Water Quality Data
15	Testing and Safety

## CCR: GOVERNMENT MANDATED

Birmingham Water Works (BWW), like all water utilities across the U.S., is required by the EPA to send its customers a Consumer Confidence Report (CCR) each year.

In 1996, Congress amended the Safe Drinking Water Act (SDWA) by adding a provision requiring all community water systems to deliver to their customers an annual water quality report, which contains information on the water system's source water, levels of any detected contaminants, compliance with drinking water rules and other educational information.

In 2022, as in years past, BWW met all state and federal regulations for water quality.

**BWW has open meetings monthly at its main office located at 3600 First Avenue N., Birmingham, AL 35222. Meeting dates and times are posted on our website and at our main office. The Board welcomes public input and comments during its meetings. For questions, please call 205-244-4000 or visit [www.bwwb.org](http://www.bwwb.org).**



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**LaQuoyah McDaniel, MSEM**  
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*Water Quality Superintendent*

## Regulatory Compliance

**Jarrold Shotts, MSEM, CESCO**  
*Regulatory Compliance Officer*

**Jennifer Toney, MSPSS**  
*Regulatory Compliance Specialist*



## **What is the Consumer Confidence Report?**

The CCR is an annual report – on the water quality of a particular water system such as BWW – required by the Environmental Protection Agency (EPA). The report details and outlines contaminants and their levels in drinking water.

## **Why am I getting this report?**

BWW is federally mandated by the EPA to provide this information to you. The Alabama Department of Environmental

Management (ADEM) enforces these rules for the EPA. Regulated drinking water substances that were detected during the 2022 calendar year are provided in the report.

## **Where can I get additional copies of this report?**

You may obtain additional copies of the CCR in person at BWW's Customer Service Center, by mail (upon request), or online by visiting [www.bwwb.org](http://www.bwwb.org). For questions concerning the CCR, please call the Regulatory Compliance Officer at 205-244-4206.

## **Why authorities regulate contaminant levels?**

In order to ensure that tap water is safe to drink, the EPA and ADEM prescribe regulations that limit the amount of certain substances in water provided by public water systems.

## **For whom is this report produced?**

The CCR is produced for all consumers of BWW's water. It provides water quality data that confirms the regulatory compliance of our water.



**BWW is committed to providing reliable, equitable, cost-effective delivery of high-quality water and services while protecting public health and environmental resources for current and future generations.**



## CARSON FILTRATION PLANT

*AWPCA Award of Excellence for Surface Water plant Category 20.1 to 30 MGD 2022*  
*Water Quality Fluoridation Award from the CDC*  
*AWWA Alabama Water Treatment Plant of the Year 2022*  
*EPA and AWWA Partnership for Safe Drinking Water Presidents Award (6 Years)*  
*EPA and AWWA Partnership for Safe Drinking Water Directors Award (17 Years)*

## PUTNAM FILTRATION PLANT

*AWPCA Award of Excellence for Surface Water plant Category 20.1 to 30 MGD 2022*  
*Water Quality Fluoridation Award from the CDC*  
*ADEM AWOP 11-year Optimized Plant Award*  
*EPA and AWWA Partnership for Safe Drinking Water Presidents Award (6 Years)*  
*EPA and AWWA Partnership for Safe Drinking Water Directors Award (16 Years)*

## WESTERN FILTRATION PLANT

*Water Quality Fluoridation Award from the CDC*  
*EPA and AWWA Partnership Award of Excellence (9 Years)*  
*EPA and AWWA Partnership Directors Award (14 Years)*  
*AWPCA Best Operated Plant Award for Surface Water 50.1 to 60 MGD*  
*Operator of the Year Award (Christopher Scott Gormley)*

## SHADES MOUNTAIN FILTRATION PLANT

*ADEM AWOP 11-year Optimized Plant Award*  
*AWPCA Best Operated Plant Award for Surface Water Greater than 60 MGD*  
*Water Quality Fluoridation Award from the CDC*  
*EPA and AWWA Partnership for Safe Drinking Water Directors Award (5 Years)*



*Pictured: Award-Winning Carson Filtration Plant*

# FOR YOUR HEALTH



All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the **Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791**.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and radioactive material, and it can pick up substances resulting from the presence of animals or from human activity.

Some people may be more vulnerable to contaminants in drinking water than the general population. People who are immunocompromised, such as cancer patients undergoing chemotherapy, organ transplant recipients, HIV/AIDS positive or other immune system disorders, some elderly, and infants, can be particularly at risk from infections.

People at risk should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbiological contaminants are available from the **Safe Drinking Water Hotline (1-800-426-4791)**. **Please consult with your local health department for additional information.**

# CUSTOMER RESOURCES



**CUSTOMER SERVICE,  
BILLING & LEAKS:**  
205-244-4000

**WATER QUALITY:**  
205-244-4381

**H2O FOUNDATION:**  
205-244-4390

**BIRMINGHAM WATER  
WORKS WEBSITE:**  
[www.bwwb.org](http://www.bwwb.org)



Cover emergency home repairs with HomeServe. Plumbing repair plans include: Exterior Water Service Line Coverage, Exterior Sewer/Septic Line Coverage, as well as Interior Plumbing and Draining System Coverage.  
[www.bwwbcoverageplans.com](http://www.bwwbcoverageplans.com) | 1-855-709-6268

# WATER SOURCES AND SYSTEM INFORMATION



## BWW WATER SOURCES

- Black Warrior Basin
  - Sipsey Fork
  - Mulberry Fork
  - Inland Lake/Blackburn Fork
- Cahaba Basin
  - Cahaba River
  - Little Cahaba River
  - Lake Purdy

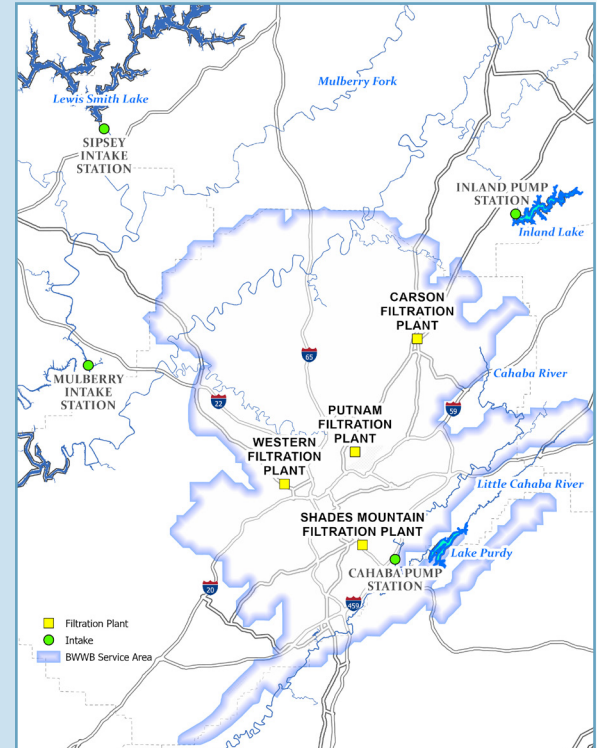
## SYSTEM INFORMATION

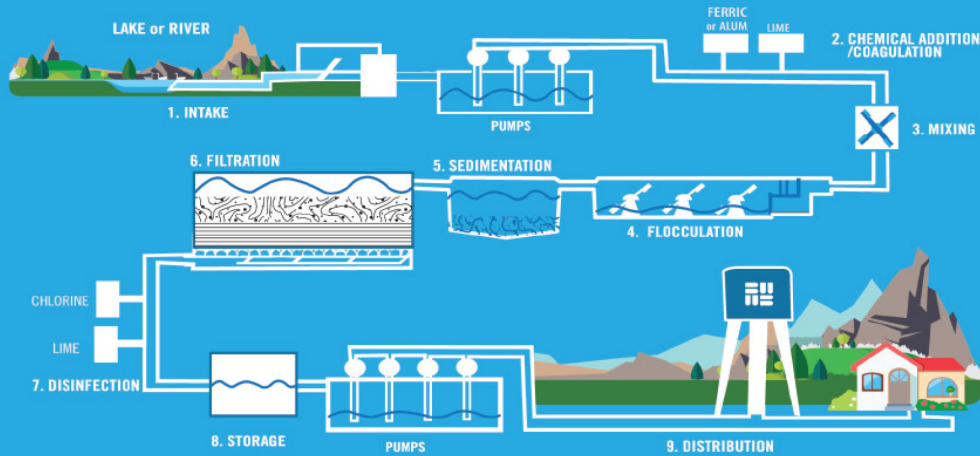
- Average Gallons of water delivered in 2022: 111.2 MGD
- People Served: 770,000\*
- Square miles in service area: 759\*
- Miles of water main (pipes) in system: 4,117\*

*\*Approximations*

## SOURCE WATER ASSESSMENT

A source water assessment has been updated for the water system. It is available for review at BWW's main office during normal business hours.





## THE WATER TREATMENT PROCESS:



1. **Intake** – Water is taken from the source. Fish, plants, and other debris are screened out and water is pumped to the treatment plant.
2. **Chemical Addition/Coagulation** – Chemicals are added to cause particles in the water to stick together.
3. **Mixing** – Water and chemicals are rapidly mixed.
4. **Flocculation** – The larger particles are called floc.
5. **Sedimentation** – The water and floc particles flow into a sedimentation basin. The floc then settles to the bottom and is removed from the water.
6. **Filtration** – Water flows through filters. The filters are made of layers of anthracite, sand, and gravel.
7. **Disinfection** – A small amount of chlorine is added to eliminate any pathogens and keep the water safe as it travels to your location.
8. **Storage** – Water is placed in a closed tank or clearwell.
9. **Distribution** – Water is transported to your location. BWB treated an average of 111.2 million gallons of water per day in 2022.



# DEFINITIONS AND ABBREVIATIONS



**Action Level (AL)** – The concentration of a contaminant that triggers treatment or other requirement a water system shall follow.

**Contaminant** – Any substance other than water. Note that contaminants, as defined, include dissolved minerals, purifying and dental health promotion additives.

**Health Advisory (HA)** – Non-enforceable EPA-issued advisories for contaminants that are not subject to a National Primary Drinking Water Regulation.

**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.

**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 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 contaminants.

**Running Annual Average (RAA)** – Compliance period where an average of four consecutive quarterly samples are used.

**Total Haloacetic Acids (HAA)** – By-product of drinking water chlorination.

**Total Trihalomethanes (TTHM)** – By-product of drinking water chlorination.

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

**Turbidity (NTU)** – Measure of the clarity of water as it relates to its particle content. Turbidity is measured to determine the amount of particulate matter present in water.

**Variance and Exemptions** – ADEM or EPA permission not to meet an MCL or treatment technique under certain conditions.

**ADEM** – Alabama Department of Environmental Management

**AWOP** – Area Wide Optimization Program

**CDC** – Centers for Disease Control

**EPA** – U.S. Environmental Protection Agency

**°F** – Degrees Fahrenheit

**MGD** – Million Gallons per Day

**mg/L** – Milligrams per liter or parts per million (ppm)

**µS/cm** – Microsiemens per centimeter

**N/A** – Not Applicable

**ND** – Not Detected

**NTU** – Nephelometric Turbidity Unit

**pCi/L** – Picocuries per liter

**SU** – Standard Unit

**TOC** – Total Organic Carbon

**TON** – Threshold Odor Number

**µg/L** – Micrograms per liter or parts per billion (ppb)

2022 Chemical Analysis												
Standard List Of Primary Drinking Water Contaminants for CCR												
Primary Drinking Water Standards - Limits are set based on public health effects.												
Bacteriological												
Parameters		MCL				Distribution System Microbiological Substance (Regulated)						
Total Coliform Bacteria		TT				The highest percentage of bacteria in the distribution system for one month was 0.75% (3 out 400 of samples).						
<i>E. coli</i>		Routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i> .				All locations that tested total coliform - positive were tested for <i>E. coli</i> . <i>E. coli</i> was <b>not detected</b> in any of these samples. All locations that tested total coliform - positive were resampled and all resamples were negative.						
Primary Contaminants												
Inorganic Chemicals and Radiologicals			Regulated Organic Chemicals			Regulated Organic Chemicals			Regulated Organic Chemicals			
Parameters (mg/L)	MCL	Highest	Parameters (µg/L)	MCL	Highest	Parameters (µg/L)	MCL	Highest	Parameters (µg/L)	MCL	Highest	
Antimony	0.006	ND	1,1 Dichloroethylene	7	ND	Dichloromethane	5	ND	PCB, 1254	0.5	ND	
Arsenic	0.01	ND	1,1,1 Trichloroethane	200	ND	Dinoseb	7	ND	PCB, 1260	0.5	ND	
Barium	2	0.025	1,1,2 Trichloroethane	5	ND	Diquat	20	ND	p-Dichlorobenzene	75	ND	
Beryllium	0.004	ND	1,2 Dichloroethane	5	ND	Endothal	100	ND	Pentachlorophenol	1	ND	
Cadmium	0.005	ND	1,2 Dichloropropane	5	ND	Endrin	2	ND	Picloram	500	ND	
Chlorine	MRDL = 4	3.15	1,2,4-Trichlorobenzene	70	ND	Ethylbenzene	700	ND	Simazine	4	ND	
Chromium	0.1	ND	2,4,5-TP (Silvex)	50	ND	Ethylene Dibromide (EDB)	0.05	ND	Styrene	100	ND	
Copper	AL = 1.3	0.018	2,4-D	70	ND	Glyphosate	700	ND	Tetrachloroethylene	5	ND	
Cyanide	0.2	ND	Alachlor	2	ND	Heptachlor	0.4	ND	Toluene	1000	ND	
Fluoride	4	0.79	Atrazine	3	ND	Heptachlor Epoxide	0.2	ND	Total Haloacetic Acids	60	40.9	
Gross Alpha (pCi/L)	15	0.8	Benzene	5	ND	Hexachlorobenzene	1	ND	Total Trihalomethanes	80	37.4	
Lead	AL = 0.015	ND	Benzo(a)pyrene	0.2	ND	Hexachlorocyclopentadiene	50	ND	Toxaphene	3	ND	
Mercury	0.002	ND	Carbofuran	40	ND	Lindane	0.2	ND	trans-1,2 Dichloroethylene	100	ND	
Nitrate as N	10	0.45	Carbon Tetrachloride	5	ND	Methoxychlor	40	ND	Trichloroethylene	5	ND	
Nitrite as N	1	ND	Chlordane	2	ND	o-Dichlorobenzene	600	ND	Vinyl Chloride	2	ND	
Radium 226 (pCi/L)	5	0.5	Chlorobenzene	100	ND	Oxamyl (Vydate)	200	ND	Xylenes	10,000	ND	
Radium 228 (pCi/L)	5	ND	cis-1,2 Dichloroethylene	70	ND	PCB, 1016	0.5	ND	TOC Step Removal for Filter Plants			
Selenium	0.05	ND	Dalapon	200	ND	PCB, 1221	0.5	ND	Total Organic Carbon (TOC)	TT	2	
Thallium	0.002	ND	Di (2-Ethylhexyl)adipate	400	ND	PCB, 1232	0.5	ND	System Wide Stage 2 Sites		RAA	
Total Nitrate/Nitrite	10	0.45	Di (2-Ethylhexyl)phthalate	6	ND	PCB, 1242	0.5	ND	Total Haloacetic Acids	60	28.7	
Turbidity (NTU)	0.3 (TT)	0.16	Dibromochloropropane	0.2	ND	PCB, 1248	0.5	ND	Total Trihalomethanes	80	37.9	

ND - Not Detected

2022 Chemical Analysis					
Detected Regulated Drinking Water Contaminants for CCR					
Primary Drinking Water Standards - Limits are set based on public health effects.					
Bacteriological					
Parameters	MCLG	MCL			Major Sources in Drinking Water
Total Coliform Bacteria	N/A	TT	The highest percentage of bacteria in the distribution system for one month was 0.75% (3 out of 400 samples).		Naturally present in the environment
<i>E. coli</i>	0	Routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total	All locations that tested total coliform - positive were tested for <i>E. coli</i> . <i>E. coli</i> was <b>not detected</b> in any of these samples. All locations that tested total coliform - positive were resampled and all resamples were negative.		Human and animal fecal waste
Inorganic Chemicals and Radiological					
Parameters (mg/L)	MCLG	MCL	Highest	Range	Major Sources in Drinking Water
Barium	2	2	0.025	0.01 - 0.025	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chlorine	MRDLG = 4	MRDL = 4	3.15	0.43 - 3.15	Water additive used to control microbes
Copper	1.3	AL = 1.3	0.018	ND - 0.018	Corrosion of household plumbing systems; erosion of natural deposits
Fluoride	4	4	0.79	ND - 0.79	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Gross Alpha (pCi/L)	0	15	0.8	ND - 0.8	Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation
Nitrate as N	10	10	0.45	ND - 0.45	Runoff from fertilizer; leaching from septic tanks and sewage; erosion of natural deposits
Radium 226 (pCi/L)	0	5	0.5	0.2 - 0.5	Erosion of natural deposits
Total Nitrate/Nitrite	10	10	0.45	ND - 0.45	Runoff from fertilizer; leaching from septic tanks and sewage; erosion of natural deposits
Turbidity (NTU)	N/A	0.3 (TT)	0.16	0.01 - 0.16	Soil runoff
Regulated Organic Chemicals					
Parameters (µg/L)	MCLG	MCL	Highest	Range	Major Sources in Drinking Water
Total Haloacetic Acids	N/A	60	40.9	8.81 - 40.9	By-product of drinking water chlorination
Total Trihalomethanes	N/A	80	37.4	6.42 - 37.4	By-product of drinking water chlorination
Running Annual Average (RAA) for System Wide Stage 2 Sites					
Parameters (µg/L)	MCLG	MCL	RAA	Range	Major Sources in Drinking Water
Total Haloacetic Acids	N/A	System-wide RAA: 60 µg/L	28.7	16.0 - 46.3	By-product of drinking water chlorination
Total Trihalomethanes	N/A	System-wide RAA: 80 µg/L	37.9	13.6 - 86.2	By-product of drinking water chlorination
TOC Step Removal for Filter Plants					
TOC Percent Removal	MCLG	MCL	Highest	Range	Major Sources in Drinking Water
Total Organic Carbon (TOC)	N/A	TT	2	1 - 2	Naturally present in the environment

ND - Not Detected

2022 Chemical Analysis					
Secondary Drinking Water Standards					
Limits are set based on cosmetic or aesthetic effects.					
Parameters (mg/L)	MCL	Highest	Range		Major Sources in Drinking Water
Aluminum	0.05 - 0.2	0.039	ND	- 0.039	By-product of drinking water treatment
Calcium	Monitored	46.7	13.4	- 46.7	
Carbon Dioxide	Monitored	1.73	ND	- 1.73	
Chloride	250	9.03	3.91	- 9.03	
Copper	1	0.018	ND	- 0.018	
Langlier Saturation Index (LSI)	Non-corrosive	-0.212	-1.59 to -0.212		
Magnesium	Monitored	7.70	2.62	- 7.70	
Manganese	0.05	0.002	ND	- 0.002	
pH (SU)	6.5 - 8.5	8.78	7.47	- 8.78	
Potassium	Monitored	2.01	1.43	- 2.01	
Sodium	Monitored	10.8	1.27	- 10.8	
Specific Conductivity (µS/cm)	Monitored	359	113	- 359	
Sulfate	250	74.3	19.5	- 74.3	
Total Dissolved Solids (TDS)	500	255	47.5	- 255	
Temperature (°F)	Monitored	80	50	- 80	
Total Alkalinity	Monitored	86	22	- 86	
Total Hardness	Monitored	148	52	- 148	
Monitoring					
Nickel	0.1	0.003	ND	- 0.003	Discharge from nickel smelting/refining and steelworks industries
Unregulated Organic Contaminants Detected					
Parameters (µg/L)	MCL	Highest	Range		MCLG
Bromodichloromethane	Monitored	6.66	2.41	- 6.66	0
Chloroform	Monitored	30.8	3.77	- 30.8	70
Dibromochloromethane	Monitored	1.30	ND	- 1.30	60
Dichloroacetic acid	Monitored	24.0	6.20	- 24.0	0
Monobromoacetic acid	Monitored	1.16	ND	- 1.16	N/A
Monochloroacetic acid	Monitored	3.49	ND	- 3.49	70
Perfluorobutanesulfonic acid	N/A	0.0045	0.0029	- 0.0045	N/A
Perfluoroheptanoic acid	N/A	0.0022	ND	- 0.0022	N/A
Perfluorohexanoic acid	N/A	0.0054	0.0039	- 0.0054	N/A
Perfluorooctanesulfonic acid	N/A	0.0044	0.0026	- 0.0044	N/A
Perfluorooctanoic acid	N/A	0.0034	0.0024	- 0.0034	N/A
Trichloroacetic acid	Monitored	13.4	2.61	- 13.4	20

ND - Not Detected

2022 Chemical Analysis					
Not Detected Contaminants					
Unregulated Organic					
Parameters (µg/L)	MCLG	Parameters (µg/L)	MCLG	Parameters (µg/L)	MCLG
1,1,1,2-Tetrachloroethane	0	Butachlor	0	o-Chlorotoluene	0
1,1,2,2-Tetrachloroethane	0	Carbaryl	0	p-Chlorotoluene	0
1,1-Dichloroethane	0	Chloroethane	0	Perfluorodecanoic acid	N/A
1,1-Dichloropropene	0	Chloromethane	0	Perfluorododecanoic acid	N/A
1,2,3-Trichlorobenzene	0	Dibromoacetic acid	N/A	Perfluorohexanesulfonic acid	N/A
1,2,3-Trichloropropane	0	Dibromomethane	0	Perfluorotetradecanoic acid	N/A
1,2,4-Trimethylbenzene	0	Dicamba	0	Perfluorotridecanoic acid	N/A
1,3,5-Trimethylbenzene	0	Dichlorodifluoromethane	0	Perfluoroundecanoic acid	N/A
1,3-Dichlorobenzene	0	Dieldrin	0	p-Isopropyltoluene	0
1,3-Dichloropropane	0	Fluorotrichloromethane	0	Propachlor	0
1,3-Dichloropropene	0	Hexachlorobutadiene	0	Propoxur	0
11Cl-PF3OUdS	N/A	HFPO-DA	N/A	sec-Butylbenzene	0
2,2-Dichloropropane	0	Isopropylbenzene	0	tert-Butylbenzene	0
3-Hydroxycarbofuran	0	Methiocarb	0	Secondary Standards - Parameters (mg/L)	MCL
9Cl-PF3ONS	N/A	Methomyl	0		
ADONA	N/A	Methyl Tertiary Butyl Ether	0	Bromide	Monitored
Aldicarb	0	Metolachlor	0	Color, APHA (color units)	15
Aldicarb Sulfone	0	Metribuzin	0	Foaming Agent	0.5
Aldicarb Sulfoxide	0	Naphthalene	0	Iron	0.3
Aldrin	0	n-Butylbenzene	0	Odor (TON)	3
Bromobenzene	0	NEtFOSAA	N/A	Silver	0.1
Bromoform	0	NMeFOSAA	N/A	Zinc	5
Bromomethane	0	n-Propylbenzene	0		

2022 Chemical Analysis						
Consecutive System Meters						
Meters	Total Haloacetic Acids (HAA <sub>3</sub> ) (µg/L)		LRAA Total Haloacetic Acids (HAA <sub>3</sub> ) (µg/L)	Total Trihalomethanes (TTHM) (µg/L)		LRAA Total Trihalomethanes (TTHM) (µg/L)
	Highest	Range	Average per Site	Highest	Range	Average per Site
Brookside #1 - 1298 Brookside Coalburg Road, 35181	22.3	19.2 - 22.3	20.8	24.3	12.8 - 24.3	20.6
Brookside #2 - 2299 Roberta Road, 35214	21.8	17.8 - 21.8	20.2	26.0	15.6 - 26.0	20.7
Graysville #1 - 2395 Forestdale Blvd, 35214	18.5	15.0 - 18.5	16.7	22.3	13.9 - 22.3	18.8
Graysville #2 - 4251 Flattop Road, 35073	20.2	15.7 - 20.2	18.2	32.1	19.7 - 32.1	26.0
Mulga #1 - 316 Templeton Road, 35218	20.4	18.9 - 20.4	19.6	19.1	14.3 - 19.1	16.8
Mulga #2 - 601 Pleasant Grove Road, 35127	29.7	16.9 - 29.7	23.8	42.5	15.5 - 42.5	30.9
Pine Bluff #1 - 22495 State Highway 79, 35172	39.1	28.0 - 39.1	32.7	30.2	17.7 - 30.2	21.9
Pine Bluff #2 - 9 Good News Road, 35172	41.4	29.2 - 41.4	34.5	24.1	18.0 - 24.1	22.0
SCO - 3535 Colonnade Parkway, 35243	39.5	12.0 - 39.5	24.0	39.7	9.90 - 39.7	22.0
UAB/VA - 1813 6th Avenue South, 35233	39.4	12.0 - 39.4	23.0	44.9	10.2 - 44.9	25.6
West Jefferson - 4251 Flat Top Road, 35073	23.0	20.7 - 23.0	21.9	35.5	15.7 - 35.5	27.4
Unregulated Contaminant Monitoring Rule Phase IV (UCMR4)						
Detected Contaminants			Non-Detected Contaminants			
Parameters (µg/L)	Average Detected	Range Detected	Parameters (µg/L)			
Haloacetic Acids (HAA <sub>5</sub> Br)	4.82	2.39 - 8.56	1-Butanol	Dimethipin	Microcystin-YR	
			2-Methoxyethanol	Ethoprop	Nodularin	
Haloacetic Acids (HAA <sub>3</sub> )	25.2	15.1 - 38.4	2-Propen-1-ol	Germanium	o-Toluidine	
			Alpha-hexachlorocyclohexane	Microcystin-LA	Oxyfluorfen	
Manganese	1.02	ND - 4.36	Anatoxin-a	Microcystin-LF	Profenofos	
			Butylated hydroxyanisole	Microcystin-LR	Tebuconazole	
Quinoline	0.003	ND - 0.042	Chlorpyrifos	Microcystin-LY	Total Microcystin	
			Cyflindospemopsis	Microcystin-RR	Total Permethrin (cis- & trans-)	
						Tribufos

ND - Not Detected

# TESTING AND SAFETY



If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Birmingham Water Works (BWW) is responsible for providing high-quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Based on a study conducted by ADEM with the approval of the EPA, a statewide waiver for the monitoring of asbestos and dioxin was issued. Thus, monitoring for any of these contaminants was not required.

The most recent testing for Lead and Copper Compliance within the distribution system was from January – June 2020. This testing was performed in accordance with applicable regulations. The 90th percentile lead sample was 0.002 mg/L. There was one sample that exceeded the action level. The 90th percentile copper sample was 0.058 mg/L. No copper samples exceeded the action level.

**Lead Service Line Lookup – Check to see if your service line is lead: <https://www.bwwbinfo.com/lead.php>**



# BIRMINGHAM WATER WORKS

3600 FIRST AVENUE N.  
BIRMINGHAM, AL 35222

An electronic, as well as a Spanish version of this document, is available at [www.bwwb.org](http://www.bwwb.org). Click Water Quality Report to see the reports available for download.

Una versión electrónica, así como en español, de este documento está disponible en [www.bwwb.org](http://www.bwwb.org). Haga clic en la Calidad del Agua para ver los informes disponibles para su descargar.

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## WITH YOU IN MIND

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