

MAWC 2022 Annual Water Quality Report

				BEAVER RUN SYSTEM			
PARAMETER	UNIT	MCL	MCLG	Meets or Exceeds Compliance Standards	Year Sampled	Highest Compliance Level Detected	Range of Detection
Total Chlorine Residual							
Entry Point	ppm	0.2	MinRDL	✓	2022		1.03-2.88
Distribution (RAA)	ppm	4.0	MRDL	✓	2022		0.2-2.66
ORGANIC CHEMICALS							
Total Trihalomethanes	ppb	80	0	✓	2022	62.7*	30.0-97.2
Total Haloacetic Acids	ppb	60	0	✓	2022	53.4*	5.88-77.8
VOCs ##	ppb		0	✓	2022	ND	
SOCs ##	ppb		0	✓	2022	ND	
TREATMENT TECHNIQUE (TT)							
Turbidity	NTU	0.3	0	✓	2022	0.198	(a)
Bacteria		>5.0%		✓	2022	A	0.2%
LT2 (Cryptosporidium oocysts/L)	Source water			✓	2017	ND	
Total Organic Carbon (TOC)						range required	range achieved
	ppm	TT		✓	2022	35%	0.0-48.3%(b)
INORGANIC CHEMICALS							
Nitrate	ppm	10	10	✓	2022	0.49	(c)
Nitrite	ppm	1	0	✓	2022	ND	
Barium	ppm	2	2	✓	2022	0.031	
Fluoride	ppm	4	4	✓	2022	0.199	
Mercury	ppm	2		✓	2022	ND	
Cyanide (Free)	ppm	0.2		✓	2022	ND	
Other- (See Table for full list)				✓	2022	ND	
RADIOACTIVE							
Gross Alpha particles ##	pCi/L	15		✓	2014	0.0	
Radium -226 ##	pCi/L	5		✓	2014	0.0	
Radium -228 ##	pCi/L	5		✓	2014	0.0	
Total Uranium ##	ug/l	30		✓	2020	0.0	
DBP / Organics							
NDMA	ppm	NA	NA	✓	2020	ND	
UCMR4							
AM1 (Metals, Pesticides, Alcohols, Semi volatiles)							
Metals							
germanium	ppb	NE	NE	✓	2019	ND	
manganese	ppb	NE	NE	✓	2019	5.02	1.5-5.02
Pesticides							
alpha-hexachlorocyclohexane	ppb	NE	NE	✓	2019	ND	
chlorpyrifos	ppb	NE	NE	✓	2019	ND	
dimethipin	ppb	NE	NE	✓	2019	ND	
ethoprop	ppb	NE	NE	✓	2019	ND	
oxyfluorfen	ppb	NE	NE	✓	2019	ND	
profenofos	ppb	NE	NE	✓	2019	ND	
tebuconazole	ppb	NE	NE	✓	2019	ND	
total permethrin (cis- & trans-)	ppb	NE	NE	✓	2019	ND	
tribufos	ppb	NE	NE	✓	2019	ND	
Alcohols							
1-butanol	ppb	NE	NE	✓	2019	ND	
2-methoxyethanol	ppb	NE	NE	✓	2019	ND	
2-propen-1-ol	ppb	NE	NE	✓	2019	ND	
Semi-volatiles							
butylated hydroxyanisole	ppb	NE	NE	✓	2019	ND	
o-toluidine	ppb	NE	NE	✓	2019	ND	
quinoline	ppb	NE	NE	✓	2019	ND	
AM2 (HAA)							
HAA5	ppb	NE	NE	✓	2019	51.5	31.8-51.5
HAABr	ppb	NE	NE	✓	2019	7.12	4.81-7.12
HAA9	ppb	NE	NE	✓	2019	58.62	36.9-58.6
TOC	ppm	NE	NE	✓	2019	2.31	1.51-2.31
Bromide	ppm	NE	NE	✓	2019	ND	
AM3 (Cyanotoxins)							
Total Microcystins	ppb	NE	NE	✓	2018	ND	
cylindrospermopsin	ppb	NE	NE	✓	2018	ND	
anatoxin-a	ppb	NE	NE	✓	2018	ND	

WATER QUALITY TABLE FOOTNOTES:  
\* as RAA. Compliance based on a Locational Running Annual Average (LRAA) for each sample site.  
\*\* If any sample exceeds the AL for Lead or Copper, the customer is immediately notified and investigative samples are taken in an attempt to determine the cause.  
(a) 100% of samples in compliance.  
(b) In months that the percent achieved was below required, there was no exceedance of the TT because MAWC met alternative compliance criteria as required by the Safe Drinking Water Act  
(c) Only one sample was required per monitoring period.  
ND= Non-Detect; A= Absent (Bacteria); RAA= Running Annual Average; LRAA= Locational Running Annual Average; UCMR4 = Unregulated Contaminants Monitoring Rule 4; MRDL = Maximum Residual Disinfectant Le

DEFINITIONS/TERMS:

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

Locational Running Average ( LRAA ) - The average, computed quarterly, of all results taken at a monitoring location during the most recent four 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 are set to allow for an additional margin of safety.

Maximum Residual Disinfectant Level (MRDL) - 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 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.

Million Fiber Per Liter (MFL ) - Measure of the presence of asbestos fibers that are longer than 10 micrometers.

Millirems per Year ( mrem/yr ) - A measure of radiation absorbed by the body.

Minimum Reporting Level ( MRL ) - For unregulated contaminant sampling. The minimum limit of a chemical required to be reported to the Environmental Protection Agency (EPA). The data collected from the UCMR 3 analyses are used in assessment monitoring and may contribute to determining future regulations that will set limits on the amount of the listed UCMR 3 chemicals in the future. The MRL is not a regulatory level and is only a reporting requirement at this time.

NTU - Nephelometric Turbidity Units, a regulatory measure of water clarity.

pCi/L ( AL ) - picocuries per liter (a measure of radioactivity.)

ppb - parts per billion, or micrograms per liter (ug/L)

ppm - parts per million, or milligrams per liter. (mg/L).

Total Organic Carbon( TOC ) - The measure of the carbon content of organic matter. The measure provides an indicator of the concentration of organic matter in the water which could react with disinfection chemicals to form THMs or HAAs5.

Total Trihalomethanes (TTHMs) and Haloacetic Acids (HAAs5) - A group of chemicals called "disinfection Byproducts"(DBPs) that form when natural organic matter in the river such as leaves and algae decompose and combine chemically with the chlorine added for disinfection process.

Treatment Technique (TT) - A required process performed during water treatment intended to reduce the level of a certain contaminant or intermediate chemical.

Unregulated Contaminant Monitoring Rule 3 (UCMR 3) - The UCMR 3 provides the EPA and other interested parties with scientifically valid data on the occurrence of contaminants in drinking water. These data serve as a primary source of co occurrence and exposure information that the agency uses to develop regulatory decisions. Unregulated contaminants are those that do not yet have a drinking water standard set by the EPA. The UCMR specifically uses both assessment monitoring of chemicals and screening surveys of hormones. You can learn more about UCMR 3 by accessing <http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/ucmr3> or contacting the Safe Drinking Water Hotline at (800)426-4791. Further, our water system has sampled for specific chemicals that may have not been specifically listed in our water quality report. As our customer, you have a right to know that these data are available. If you are interested in examining the results, please contact our office at (412) 793-7331.

Plum Borough Municipal Authority  
2022 Annual Drinking Water Quality Report

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Este informe contiene informacion muy importante sobre su agua de beber. Traduzcalo o hable con alquien que lo entienda bien. (This report contains very important information about your drinking water. Translate it, or speak to someone who understands it.)

The Plum Borough Municipal Authority (PBMA) is pleased to present its 2022 Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services we deliver to our customers every day. Our constant goal is to provide you with a dependable supply of drinking water. We are committed to ensuring the quality of your water.

The Plum Borough Municipal Authority is pleased to report that our drinking water meets federal and state requirements. If you have any questions about this report or concerning your water utility, please contact Joe Seward, Certified Operator or J. Howard Theis, Manager at (412) 793-7331 between 8:00 A.M.-4:30 P.M. Monday through Friday. We want our valued customers to be informed about their water utility. If you want to learn more, you may attend the PBMA Board of Directors meetings held on the third Thursday of each month at 6:00 P.M. at the Municipal Authority Building located at 4555 New Texas Road, Pittsburgh, PA 15239.

If you have questions or comments concerning the information presented in this report or other aspects of the PBMA operations, please contact the PBMA administrative office at (412) 793-7331. You may also visit our website at [www.plumboroughma.com](http://www.plumboroughma.com)

QUALITY CUSTOMER SERVICE

The Plum Borough Municipal Authority routinely monitors for constituents in your drinking water according to Federal and State laws. The table on the next page shows the results of our monitoring for the period of January 1st to December 31st, 2022. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

The Municipal Authority of Westmoreland County changes their disinfection process from Chlorine to Chloramines during the months of May thru October.

BACKFLOW/CROSS CONNECTION PROGRAM

Plum Borough Municipal Authority continues in our efforts of staying in compliance with the “Safe Drinking Water Act” by monitoring locations posing the greatest degree of hazard to our water system by enforcing our “Backflow/Cross Connection Program”. These locations are classified as newly constructed, major renovated, commercial & industrial consumers or consumers classified as potential polluters. Consumers must have their backflow systems inspected annually by a certified plumber and submit a certified report to the Authority. If you desire additional information about the Backflow/Cross Connection Program, please contact our office at 412-793-7331.

UPGRADE OF DISTRIBUTION SYSTEM

During 2022 the Authority completed the Phase II Sardis Road water line replacement project. The Maple Street waterline replacement along with the Entrance Drive water line Projects were completed.

The Sardis Road Ph. II project began near the Allegheny County Line and ran to the intersection of Renton Road. The project consisted of installation of approximately 4,858 feet of 12’ PVC Pipe, 12 new valves and 5 new fire hydrants. The Maple St. water line replacemaent consisted of the installation of 912 feet of 6” PVC water line, 8 new valves and 1 fire hydrant. Additionally, it required the replacement of 32 service lines. Entrance Drive began late in 2022 and was completed. The project consisted of the installation of 1,492 feet of \*” PVC pipe along with 7 new main valves and 1 fire hydrant. The total amount expensed for these three projects was in excess of \$2,000,000.

EXCESSIVE WATER PRESSURE / PER THE 2015 UNIFORM PLUMBING CODE

Where static water pressure in the water supply piping is exceeding 80 psi (552 kPa), an approved – type pressure regulator may be used to reduce static pressure.

An approved expansion tank shall be installed in the cold-water distribution piping downstream of each such regulator to prevent excessive pressure from developing due to thermal expansion and to maintain the pressure settings of the regulator. Expansion tanks used in potable water systems intended to supply drinking water shall be in accordance with NSF 61. The expansion tank shall be properly sized and installed in accordance with the manufacturer's installation instructions and listings.

Required Consumer Confidence Report (CCR) statement Addressing Lead in Drinking Water

“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. MAWC 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>.”

2022 Consumer Confidence Report

Plum Borough Municipal Authority  
4555 New Texas Rd., Pgh, PA 15239



# IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

## AVAILABILITY OF MONITORING DATA FOR UNREGULATED CONTAMINANTS FOR PLUM BOROUGH MUNICIPAL AUTHORITY.

Our water system has sampled for a series of unregulated contaminants. Unregulated contaminants are those that don’t yet have a drinking water standard set by EPA.

The purpose of monitoring for these contaminants is to help EPA decide whether the contaminants should have a standard. As our customers, you have a right to know that this data is available.

### PUBLIC NOTIFICATION NEWS

The Authority recently purchased a newer notification system called Nixle. Nixle has the ability to notify our customers via E-mail, Text or Voice mail in the event of an emergency, water breaks or any health-related matters regarding water quality issues. We are asking that if you have yet to sign up, **please do so now**. We have attached further instructions and directions on how to sign up on the next page of this report.

### PLANNED AUTHORITY UPGRADES

The Davidson Road waterline replacement project is one that will be undertaken during 2023. The project will consist of the installation of approximately 1,700 feet of 8” PVC Waterline. The estimated cost for this project is approximately \$480,000. This project is currently underway and will be completed by mid-year. The Borough has plans to resurface the road later in the year. The Authority Board of Directors, during the latter part of 2022, approved the submittal of a Grant application for the installation of the Sardis Road Ph III. The Grant amount the Authority is seeking is for approximately \$900,000. The Authority’s share of the project cost equates to approximately \$485,000. Additionally, The Authority has the required DEP Permits in place for the painting of the Logans Ferry Water Tank. Estimated cost to paint the tank is \$350,000.

The Authority continues to survey and plot the Authority’s water distribution system onto the GPS mapping system. We continue to utilize PSN as our third-party billing remitter. You can visit our web-site @www.plumboroughma.com for more information. Additionally, EPA and DEP recently enacted new regulations regarding lead service lines. The Authority, as every other water supplier across the Nation, will be required to have surveys on both the internal and external water supply line feeding your home/business conducted over the next several years. More information regarding this matter will be forthcoming at a later date.

To our Valued Customers, you have our promise that we will continue to strive to protect your sensitive information, while protecting you, your family members and the environment. It is, and will always be, our intent to provide you with a safe, reliable product and services at the lowest possible price.

### SOURCE OF WATER

During the entire 2022 calendar year, the PBMA purchased finished drinking water from the Municipal Authority of Westmoreland County (MAWC). Information regarding MAWC water quality may be accessed by visiting [www.mawc.org/ccr](http://www.mawc.org/ccr).

The finished water that is provided by MAWC is obtained from the Beaver Run Reservoir. The MAWC raw water sources are potentially most susceptible to accidental spills along major transportation corridors, release of raw and/or under treated sewage, and storm water runoff from developed and/or agricultural areas. Also, Beaver Run is potentially susceptible to the cumulative release of petroleum products from nearby tank farms.

### HEALTH INFORMATION:

Drinking water, including bottled water, may reasonably be expected to contain small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. 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 can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- Microbiological contaminants such as viruses and bacteria which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil & gas production, mining and farming.
- Pesticides and herbicides which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil & gas production and mining activities.


In order to ensure that your tap water is safe to drink, the US EPA and the PADEP have established regulations which limit the amount of certain contaminants in water provided by public water systems. The presence of these contaminants does not necessarily indicate that the water poses a health risk. Information about contaminants and potential health effects of chemicals detected in our drinking water are listed in this report. Further information can be obtained by calling the US EPA’s Safe Drinking Water Hotline 800-426-4791 or on the US EPA’s website at <http://www.epa.gov/ground-water-and-drinking-water>.

### NOTICE: IMPORTANT INFORMATION

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS, or other immune system disorders, some elderly and infants, can be particularly at risk from infections. These people should seek advice about drinking water from their healthcare providers. EPA/Centers for Disease Control(CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791), or the EPA website <https://www.epa.gov/safewater>.

Chemical Contaminants - Plum Borough Municipal Authority PWSID 5020041								
Contaminant	MCL in CCR Units	MCLG	Level Detected	Range of Detections	Units	Sample Date	Violation YES / NO	Source(s) of Contamination
Chlorine	MRDL = 4	MRDLG = 4	2.38	0.20-2.38	ppm	2022	NO	Water additive used to control microbes.
HAA5s	60	NA	25	10-40	ppb	2022	NO	By-product of drinking water disinfection.
TTHMs	80	NA	50	34-66	ppb	2022	NO	By-product of drinking water chlorination
Fluoride	4	4	0.199	(f-g)	ppm	2022	NO	Water additive which promotes strong teeth.
Microbial Contaminants - 36 routine samples per month, 1 out of 439 samples tested positive								
Contaminant	MCL in CCR Units	MCLG	Highest % of Positive Samples		Range of Detections	Sample Date	Violation YES / NO	Source(s) of Contamination
Total Coliform Bacteria	5% of monthly samples are positive	0	2.5% Highest % of positive samples per month		0 - 2.5 %	2022	NO	Naturally present in the environment.
Lead and Copper ( Number of customer taps tested above Lead and/or Copper Action Level = 0 out of 30) (2020 Results)								
Contaminant	Action Level (AL)	Ideal Goal MCLG	90th Percentile Value		Units	Sample Date	Violation YES / NO	Source(s) of Contamination
Lead (H)	15	0	0		ppb	2022	NO	Corrosion of household plumbing.
Copper (h)	1.3	1.3	0.095		ppm	2022	NO	Corrosion of household plumbing.

**Water-Quality Table Footnotes:** (f) Meadowbrook Pump Station. (g) Hankey Tank. Meadowbrook Pump Station. Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.



## PLUM BOROUGH MUNICIPAL AUTHORITY

### Receive Up-To-Date Information Affecting Your Neighborhood!

Plum Borough Municipal Authority is now utilizing a new service to access important and valuable water & sewer information of certain events. These include emergency conditions, water breaks, hydrant flushing, urgent service alerts and other relevant water & sewer information. They are mandated to contact you regarding water quality issues when you need it, using the latest technology. We will create and publish messages through Nixle. Nixle will then deliver this information to you instantly through text message, email, and web message.

This service is secure, reliable, and easy to use. All alerts will be targeted geographically, allowing residents to receive localized, relevant alerts from Plum Borough Municipal Authority. You decide what information you want and whether you want it sent to your cell phone, home phone voice message, email or simply over the web.

As a resident, there are two simple ways to register; By text messaging your zip code to 888777 and texting in the keyword “PBMAWATER”. Register online through our website, fill out your contact information and click “SUBMIT”. Once registered, you will receive a confirmation message to your mobile device and/or email.


**Please follow the directions below on how to sign up.**

**Register by Text Message:**

- Text your **ZIP CODE** to **888777** for mobile alerts
- Text in the keyword “**PBMAWATER**”
- Reply with your **EMAIL** address (optional)

**Register Online:**

- Go to: **[www.plumboroughma.com](http://www.plumboroughma.com)**
- Click on the Water Alerts button from the Home Page
- Fill out your Name, Home or Cell Phone Number, Email Address & Zip Code
- Click on one option for “**How You Would Like to be Notified**”
- Once complete, click **SUBMIT**



888777  
Text Message  
Today 2:30 PM

**15239**

Everbridge Nixle Alerts: MSG&Data rates my apple. Txt HELP, STOP, ESP (Spanish). Reply w/ your email address to get email alerts.

**PBMAWATER**

Everbridge Nixle Alerts: Welcome to PBMAWATER info at nixle.com MSG&Data rates may apply. Txt HELP or STOP. Reply with your email address to get alerts

PBMAWATER: Thank you for signing up for Plum Borough Municipal Authority water alerts! Reply with zip and/or email for additional messages