

2022

# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF SAFE DRINKING WATER

ANNUAL DRINKING WATER QUALITY REPORT

PWSID #:	5 <u>02004</u> 7	NAME:	Reserve Township
	enda. (This report co	ontains important inform	Haga que alguien lo traduzca para usted, mation about your drinking water. Have
WATER SYSTEM INFORMATION	N:		
water utility, please contact Jan I 412-322-1551. We want you to I our regularly scheduled meetings	Kowalski, CPA, Towns be informed about you s. They are held	ship Manager ur water supply. If you	tions about this report or concerning your want to learn more, please attend any of 33 Lonsdale St., Pittsburgh PA 15212.
SOURCE(S) OF WATER:			
Our water source(s) is/are: (Nan	ne-Type-Location)		
Reserve purchases water from	Pittsburgh Water and	Sewer Authority (PWS	SA), which treats water from the Allegheny
River.			

A Source Water Assessment of our source(s) was completed by the PA Department of Environmental Protection in 2010. The Assessment has found that our source water is potentially most susceptible to road deicing materials, accidental spills along railroad tracks, and leaks from submerged pipelines and storage thanks. Overall, the Allegheny River Watershed has a moderate risk of significant contamination. A summary report of the Assessment is available on the Source Water Assessment Summary Reports eLibrary web page: <a href="https://depgreenport.state.pa.us/elibrary">https://depgreenport.state.pa.us/elibrary</a>. Complete reports were distributed to municipalities, water supplier, local planning agencies and PADEP offices.

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 health care providers. EPA/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* (800-426-4791).

# **MONITORING YOUR WATER:**

We routinely monitor for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring for the period of January 1 to December 31, 2022. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data is from prior years in accordance with the Safe Drinking Water Act. The date has been noted on the sampling results table.

### **DEFINITIONS:**

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

#### 3930-FM-BSDW0114 Rev. 12/2018

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 contaminants.

Minimum Residual Disinfectant Level (MinRDL) - The minimum level of residual disinfectant required at the entry point to the distribution system.

Level 1 Assessment – A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment – A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

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

*Mrem/year* = millirems per year (a measure of radiation absorbed by the body)

pCi/L = picocuries per liter (a measure of radioactivity)

ppb = parts per billion, or micrograms per liter ( $\mu$ g/L)

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

ppq = parts per quadrillion, or picograms per liter

ppt = parts per trillion, or nanograms per liter

# DETECTED SAMPLE RESULTS: Reserve Township Distribution System

Chemical Cont	Chemical Contaminants									
Contaminant	MCL in CCR Units	MCLG	Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination		
HAA5	60	N/A	16	8-38	ppb	2022	N	By-product of water disinfection		
TTHM	80	N/A	55	23-99	ppb	2022	N	By-product of water disinfection		
Free Chlorine	4.0	MRDLG -4	1.29	0.38-1.29	ppm	2022	N	Water additive used to control microbes		
Chemical Cont	aminants-	Pittsburgh	Water and	Sewer Author	rity					
Contaminant	MCL in CCR Units	MCLG	Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination		
Nitrate	10	10	0.835	0.38 – 0.84	ppm	2022	N	Runoff from fertilizer use; industrial or domestic wastewater discharges; erosion of natural deposits		
Barium	10	10	0.027	N/A	ppm	2022	N	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.		
Fluoride	4.0	2*	0.80	N/A	ppm	2022	N	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories		

<sup>\*</sup>EPA's MCL for fluoride is 4 ppm. However, Pennsylvania has set a lower MCL to better protect human health.

Entry Point Disinfectant Residual – Pittsburgh Water and Sewer Authority									
Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination		
Free Chlorine	0.20	0.76	0.76-1.29	ppm	2022	N	Water additive used to control microbes.		

# 3930-FM-BSDW0114 Rev. 12/2018

Lead and Copper								
Contaminant	Action Level (AL)	MCLG	90 <sup>th</sup> Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Y/N	Sources of Contamination	
Lead	15	0	1.5	ppb	0	N	Corrosion of household plumbing.	
Copper	1.3	1.3	0.088	ppm	0	N	Corrosion of household plumbing.	

Microbial (related to Assessments/Corrective Actions regarding TC positive results)									
Contaminants	TT	MCLG	Assessments/ Corrective Actions	Violation Y/N	Sources of Contamination				
Total Coliform  Bacteria	Any system that has failed to complete all the required assessments <b>or</b> correct all identified sanitary defects, is in violation of the treatment technique requirement		See detailed description under "Detected Contaminants Health Effects Language and Corrective Actions" section	N	Naturally present in the environment.				

Microbial (related	Microbial (related to E. coli)									
Contaminants	MCL	MCLG	Positive Sample(s)	Violation Y/N	Sources of Contamination					
E. coli	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> .	0	0	N	Human and animal fecal waste.					
Contaminants	TT	MCLG	Assessments/ Corrective Actions	Violation Y/N	Sources of Contamination					
E. coli	Any system that has failed to complete all the required assessments <b>or</b> correct all identified sanitary defects, is in violation of the treatment technique requirement	N/A	See description under "Detected Contaminants Health Effects Language and Corrective Actions" section	N	Human and animal fecal waste.					

Turbidity- Pittsburgh Water and Sewer Authority								
Contaminant	MCL	MCLG	Level Detected	Sample Date	Violation Y/N	Source of Contamination		
Turbidity	TT=1 NTU for a single measurement	0	0.130	6/9/2022	N	Soil runoff		
	TT= at least 95% of monthly samples<0.3		100%	N/A	N			

Total Organic Carbon (TOC) – Pittsburgh Water and Sewer Authority									
	Range of %		Number of						
	Removal	Range of percent	quarters out of	Violation	Sources of				
Contaminant	Required	removal achieved	compliance	Y/N	Contamination				
TOC	35%-45%	39%-44%	0	N	Naturally present in				
					the environment				

#### DETECTED CONTAMINANTS HEALTH EFFECTS LANGUAGE AND CORRECTIVE ACTIONS:

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially harmful, bacteria may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

During the past year we were required to conduct a Level 1 assessment. One Level 1 assessment was completed. In addition, we were required to take two corrective actions and we completed one of these actions and are scheduled to complete the other by the end of 2023.

#### OTHER VIOLATIONS:

We delivered our 2021 CCR to our customers by July 1, 2022; however, we failed to certify our 2021 CCR to the DEP by October 1, 2022. We have submitted this document to DEP and are now in compliance.

#### **EDUCATIONAL INFORMATION:**

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, in some cases, 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:

Microbial 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 stormwater run-off, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater 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 stormwater runoff, and
  septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA and DEP prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA and DEP regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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* (800-426-4791).

## **Information about Lead**

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.

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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 <a href="http://www.epa.gov/safewater/lead">http://www.epa.gov/safewater/lead</a>.