



# **Center Township Water Authority PWS 5040007**

## **Annual Drinking Water Quality Report for 2023**

*Este informe contiene informacion muy importante sobre su agua beber.  
Traduzcalo o hable con alguien que lo entienda bien.*

Business Office: 224 Center Grange Road, Aliquippa, PA 15001 – Tel: 724-774-7960  
Maintenance Office: 200 Fairview Drive, Monaca, PA 15061 – Tel: 724-774-7766  
Water Treatment Plant: 3000 Wagner Road Extension South, Monaca, PA 15061 – Tel: 878-313-3137  
Website: [www.ctwa.us](http://www.ctwa.us)

This report is designed to inform you about the quality and services that the Center Township Water Authority (Authority) delivers to you every day. Our goal is to provide a dependable supply of drinking water from our Ohio River Surface Water Intake. We want you to understand the efforts we put forth to continually improve the water treatment process and protect our water resources. The Authority is committed to ensuring the quality of your water. **We are pleased to report that our drinking water meets Federal and State requirements. If you have any questions about this report, please contact the Center Township Water Authority at 724-774-7766 Monday through Friday from 7:00 AM to 3:00 PM.** We want our customers to be informed about their water utility. You may attend any of our regularly scheduled meetings held on the third Tuesday of each month at 4 p.m. at the Authority's office located at 224 Center Grange Road. The Authority routinely monitors for contaminants in your drinking water according to Federal and State laws. Information on the following pages outlines the results of the latest monitoring required by regulation for the period January 1 through December 31 of the year 2023.

**DEFINITIONS:** *The tables on the following pages contain terms and definitions that may be unfamiliar to you. To help you understand these terms, we have provided the following definitions:*

**Parts per million (ppm)** — One part per million. Equal to one minute in two years or a single penny in \$10,000.

**Parts per billion (ppb)** — One part per billion. Equal to one minute in 2,000 years or a single penny in \$10,000,000.

**Picocuries per liter (pCi/L)** — Measurement of radioactivity.

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

**Maximum Contaminant Level (MCL)** — The 'Maximum Allowed' is the highest level of a contaminant 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 'Goal' is 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.

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

***We're proud that your drinking water meets or exceeds all Federal and State requirements.***

### **OUR WATER SOURCE:**

Our water treatment plant utilizes surface water obtained from an intake structure within the Ohio River. A Source Water Assessment of our surface water source was completed by the River Alert Information Network (RAIN) in 2016. The assessment found that our surface water source is potentially susceptible to accidents and spills along nearby transportation corridors (roadways, railroads, and river traffic), bridges, boating, marinas, barge traffic, auto repair shops, truck terminals, utility substations, residential developments, combined sewer overflows, road deicing, and salt storage. Overall, our surface water source has a high risk of significant contamination.

Complete reports of our Source Water Assessments were distributed to the Authority and PADEP offices. Copies of the complete reports are available for review at the PADEP Southwest Regional Office in Pittsburgh, Records Management Unit at 412-442-4000. Summary reports of the assessment are available at the Center Township Water Authority Business Office and also on the PADEP website at:

<http://www.depgreenport.state.pa.us/elibrary/GetFolder?FolderID=4490>.

***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 microbiological contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.***

**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 materials, 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 storm water 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 agricultural, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial process and petroleum productions, 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 and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA and PADEP prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. FDA and PADEP 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 at 1-800-426-4791.

The Center Township Water Authority works around the clock to provide quality water to every tap. We ask all customers to help us protect our water resources, which are the heart of our community, our way of life and our children's future.

**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. The Center Township Water Authority 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 two 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, 1-800-426-4791, or online at <http://www.epa.gov/safewater/lead>*

**DETECTED SAMPLE RESULTS:**

TURBIDITY							
Contaminants	Units	Violation?	Level Detected	Sample Date	MCLG	MCL	Likely Source of Contaminants
Turbidity	NTU	No	0.354	08/27/2023	<1	TT = 1 NTU for a single measurement	Soil runoff
		No	99.964%	August 2023	>95%	TT = at least 95% of monthly samples ≤0.3 NTU	

CHEMICAL CONTAMINANTS								
Contaminants	MCL	MCLG	Level Detected	Range	Units	Sample Date	Violation?	Likely Source of Contaminants
Total Trihalomethanes	80	--	60.97 <sup>(1)</sup>	24.9 – 156	ppb	12/13/2023	No	By-product of drinking water chlorination
Haloacetic Acids	60	--	17.24 <sup>(1)</sup>	9.95 – 32.8	ppb	12/13/2023	No	By-product of drinking water disinfection
Barium	2	2	0.0246	--	ppm	12/15/2023	No	Discharge of drilling wastes, metal refineries; Erosion of natural deposits
Nitrate	10	--	0.72	--	ppm	12/15/2023	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Radium-226	5	--	0.0312	--	pCi/L	12/15/2023	No	Erosion of natural deposits
Radium-228	5	--	0.46	--	pCi/L	12/15/2023	No	Erosion of natural deposits
Chlorine	4	4	0.81	0.47 - 0.70	ppm	December 2023	No	Water additive used to control microbes

Footnotes: (1) Samples taken on dates shown. These are the yearly average for samples analyzed for the contaminants shown.

ENTRY POINT DISINFECTANTS							
Disinfectant	Units	Violation?	Lowest Level Detected	Range	Sample Date	MinRDL	Likely Source of Contaminants
Chlorine	ppm	No	0.4	0.4 – 1.6	02/21/2023	0.2	Water additive used to control microbes

Lead and Copper								
Contaminant	Action Level (AL)	MCLG	90 <sup>th</sup> Percentile Result	Units	# of Sites Above AL	Violation?	Year	Likely Source of Contaminants
Lead	15	0	0.86	ppb	0 out of 30	N	2022	Corrosion of household plumbing
Copper	1.3	1.3	0.015	ppm	0 out of 30	N	2022	Corrosion of household plumbing

TOTAL ORGANIC CARBON (TOC)					
Contaminants	Violation?	Range of % Removal Achieved	% Removal Required	# of Quarters Out of Compliance	Likely Source of Contaminants
TOC	No	48% – 56%	35%	0	Naturally present in the environment

**Microbiological Contaminants** – Total Coliform is Tested Monthly.

**UNREGULATED CONTAMINANT MONITORING – IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER**

Availability of Monitoring Data for Unregulated Contaminants for Center Township Water 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. If you are interested in examining the results, please contact us at 724-774-7766.

**VIOLATIONS:**

All Treatment Technique Requirements for the Center Township Water Authority were met in 2023.

- In September 2023, an Operational Evaluation Level (OEL) Exceedance was identified for disinfection byproducts however, no violation was identified.

**What happened? What was done? When will it be Resolved?** CTWA collects samples for disinfection byproducts across the distribution system at selected sample sites on a quarterly basis as required by regulation. Compliance with the Maximum Contaminant Levels (MCL) for trihalomethanes (TTHM) and haloacetic acids (HAA5) is based on locational running annual averages (LRAAs), which are the average of sampling results for the most recent four calendar quarters. As required by regulation, CTWA also calculates an Operational Evaluation Level (OEL) each quarter to monitor for increasing levels of disinfection byproducts so that the cause may be identified and corrected before MCL violation occurs. The OEL is a weighted average based upon sample results of the previous two quarters plus twice the most recent quarter. Sampling performed in September for the third quarter of 2023 indicated an OEL exceedance for trihalomethanes at three sample sites. CTWA performed an Operational Evaluation which determined that the OEL Exceedance was caused by high source water temperatures in conjunction with increased water age in distribution storage facilities. CTWA is evaluating methods to reduce hydraulic residence time in storage facilities and optimize treatment processes to reduce the possibility of future OEL exceedances. The evaluation and proposed precautionary measures were submitted to PaDEP for review in December 2023.

*Monitoring and/or Reporting Requirements Not Met for the Center Township Water Authority in 2023:*

- In January 2023, a monitoring/reporting violation for Total Organic Carbon (TOC) and for Total Alkalinity were identified.

**What happened? What was done? When will it be Resolved?** CTWA collects entry point samples for Total Organic Carbon (TOC) and alkalinity on a quarterly basis, as required by regulation. Samples for the first quarter of 2023 were delivered to the laboratory for analysis on March 29, 2023 and the results were uploaded to DWLER on April 11, 2023. A Tier 3 Violation was received for results being uploaded after the deadline (end of quarter).

- In October 2023, a reporting violation for Radium-226 and Radium-228 was identified.

**What happened? What was done? When will it be Resolved?** CTWA collects entry point samples for radiological and inorganic compounds on a quarterly basis, as required by regulation. CTWA's consulting laboratory performs analysis of inorganic compounds but outsources radiological analysis to a separate agency. Samples for the fourth quarter of 2023 were delivered to the laboratory for analysis on December 15, 2023 however, the subcontracted laboratory did not upload radiological results to DWLER prior to the January 10, 2024 deadline, resulting in a Tier 3 Violation.

- In November 2023, a reporting violation for individual and combined filter effluent turbidity was identified.

**What happened? What was done? When will it be Resolved?** CTWA maintains a database of all turbidity data at the water filtration plant, and provides a monthly SDWA-5 report summarizing combined and individual filter effluent turbidity measurements to PaDEP. The date of the SDWA-5 report for November 2023 was misreported as December and the reporting software omitted data from startup/shutdown periods, resulting in a Tier 3 Violation. The submission was corrected by the Authority and submitted to PaDEP.

**WATER EMERGENCY TELEPHONE NUMBERS**

**724-774-7766** CTWA MAINTENANCE OFFICE – 7:00 AM TO 3:00 PM MONDAY THROUGH FRIDAY  
**724-775-0880** NON-EMERGENCY POLICE – AFTER HOURS  
**911** BEAVER COUNTY EMERGENCY SERVICES CENTER

***Center Township Water Authority***  
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2023 Board of Directors

William DiCioccio, Sr. ....Chairman  
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 Ronald A. Crisi. ....Treasurer  
 Jake Morrison .....Asst. Secretary/Treasurer  
 Ned Mitrovich, P.E., LSSE, Inc.....Consulting Engineer  
 Marie Hartman, P.E., LSSE, Inc.....Consulting Engineer  
 Michael W. Nalli, Esquire..... Solicitor

2023 CTWA Staff

Bill DiCioccio, Jr. .... General Manager  
Bill Battisti ..... Foreman  
Anthony Barone..... Assistant Foreman  
Verna Dugan Sisk .....Office Manager

John Elias..... Chief Plant Operator  
Andy Lancos.....Plant Operator  
Howard Hughes.....Plant Operator  
Gary Specht.....Part-Time Plant Operator

Maintenance Employees.....Chris Bakertges, John DelRusso, Andria Coble, Anthony Johns, Roddy Taddeo  
Office Employees..... Vicki Dugan, Lorraine Johns, Sheila Legge, Piera Masciantonio  
P/T Meter Reader..... Randy Stewart



**CENTER TOWNSHIP WATER AUTHORITY**

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Aliquippa, PA 15001-1498