



Center Township Water Authority PWS 5040007

Annual Drinking Water Quality Report for 2020

*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

This report is designed to inform you about the quality and services 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 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 a.m. to 3 p.m.** 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 outline the results of the latest monitoring required by regulation for the period from Jan. 1 through Dec. 31 of the year 2020.

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 in 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 DEP prescribe 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 at 1-800-426-4791.

We at the Center Township Water Authority work around the clock to provide quality water to every tap. We ask all our 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	0.655	01/31/2020	<1	TT = 1 NTU for a single measurement	Soil runoff
		No	97.986%	2020	>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	--	41.9 ⁽¹⁾	17.8 – 99.0	ppb	03/16/2020 09/14/2020	Yes	By-product of drinking water chlorination
Haloacetic Acids	60	--	15.05 ⁽¹⁾	6.27 – 26.8	ppb	03/16/2020 06/15/2020	No	By-product of drinking water disinfection
Barium	2	2	0.0457	--	ppm	06/19/2020	No	Discharge of drilling wastes, metal refineries; Erosion of natural deposits
Nitrate	10	10	<2.0	--	ppm	07/29/2020	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Chlorine	4	4	0.81	0.41 - 0.81	ppm	01/2021	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 – 1.48	04/08/2020	0.2	Water additive used to control microbes

TOTAL ORGANIC CARBON (TOC)					
Contaminants	Violation?	Range of % Removal Achieved	% Removal Required	# of Quarters Out of Compliance	Likely Source of Contaminants
TOC	No	44.4% – 52.7%	25% – 35%	0	Naturally present in the environment

Microbiological Contaminants – Total Coliform 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 these data are available. If you are interested in examining the results, please contact us at 724-774-7766.

VIOLATIONS:

Monitoring or Reporting Violations

- During 2020, monitoring and reporting violations for distribution entry point sampling requirements were identified. Samples were collected and analyzed for Total Organic Carbon (TOC) as required, however, for the first quarter of 2020 beginning on 01/01/2020, they were not reported properly at the time by our contract laboratory. The analysis of samples for Raw Water TOC and Plant TOC were incorrectly reported as distribution samples. The identified failure to monitor or report at least 90% of all required samples in a month or quarter resulted in a Tier 3 violation. This reporting violation has since been corrected. All applicable sample analysis met compliance requirements and the proper reporting corrections were achieved for these instances.
- During 2020, one monitoring and reporting violation for raw water sampling requirements was identified. Samples were collected and analyzed for Total Alkalinity as required, however, our contract laboratory recorded that headspace was present in the sample bottle used for alkalinity analysis resulting in an invalid sample result for the required March 2020 sample. The identified failure to monitor or report at least 90% of all required samples in a month or quarter or failure to monitor Alkalinity on the same day as source TOC resulted in a Tier 3 violation. This monitoring and reporting violation was corrected, the contract laboratory is utilizing different sample bottles to eliminate the headspace in future sampling.
- During 2020, Samples were collected and analyzed for Total Coliform, as required, however, for the second quarter of 2020 on 06/01/2020, one sample site location was not reported properly at the time by our contract laboratory. The sample result was in compliance however the sample site location ID was incorrectly reported in submission to the State.

- For the last week of December 2020, monitoring and reporting violations in accordance with the disinfection requirement rule were identified. Samples were collected and analyzed for disinfectant residual weekly with the minimum required per month being analyzed as required, however, samples were not collected the last week of December due to misunderstanding of sampling requirements (the number of monthly samples required were collected for December prior to this week; however additional sampling was required for sampling of this week that was not conducted). This failure to monitor in accordance with the disinfection requirement rule resulted in a Tier 3 violation. This monitoring violation has since been corrected that additional sampling will be conducted as required.
- In February 2021, monitoring and reporting violations for combined final for source water systems were identified. The reporting software at the water filtration plant did not report all of the required turbidity sample data. After the violation was identified the turbidity data was pulled from the plant database manually and it was found that the data was recorded and was in compliance for this reporting period. The Identified failure to report the required number of combined final effluent turbidity samples during the month resulted in a Tier 3 violation. The required number of combined final effluent turbidity samples were collected/monitored as noted above and the reporting violation has since been corrected.

WATER EMERGENCY TELEPHONE NUMBERS

724-774-7766 CTWA MAINTENANCE OFFICE – 7 AM TO 3 PM MONDAY TO FRIDAY
724-775-0880 NON-EMERGENCY POLICE NO. – AFTER HOURS
911 BEAVER COUNTY EMERGENCY SERVICES CENTER

Center Township Water Authority Annual Drinking Water Quality Report for 2020

2020 Board of Directors

William DiCioccio, Sr.	Chairman
Stevan Drobac, Jr.	Vice-Chairman
Carol A. Lancos.....	Secretary
Danny D. Santia, Jr.	Treasurer
Ronald Amadio, Sr.	Asst. Secretary/Treasurer
Ned Mitrovich, P.E., LSSE, Inc.....	Consulting Engineer
Marie Hartman, P.E., LSSE, Inc.....	Consulting Engineer
Ronald J. DiGiorno, Esq.....	Solicitor

CTWA Staff

Bill DiCioccio, Jr.	Operational Supervisor	Steve W. Gulla.....	Plant Operator
Larry Zon	Working Foreman	John Elias.....	Plant Operator
Bill Battisti	Asst. Foreman	Gary Specht.....	Plant Operator
Verna Dugan Sisk	Chief Clerk	Andy Lancos.....	Part-Time Plant Operator

Maintenance Employees.....	Chris Bakertges, Anthony Barone, Howard Hughes, Andria Coble, 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